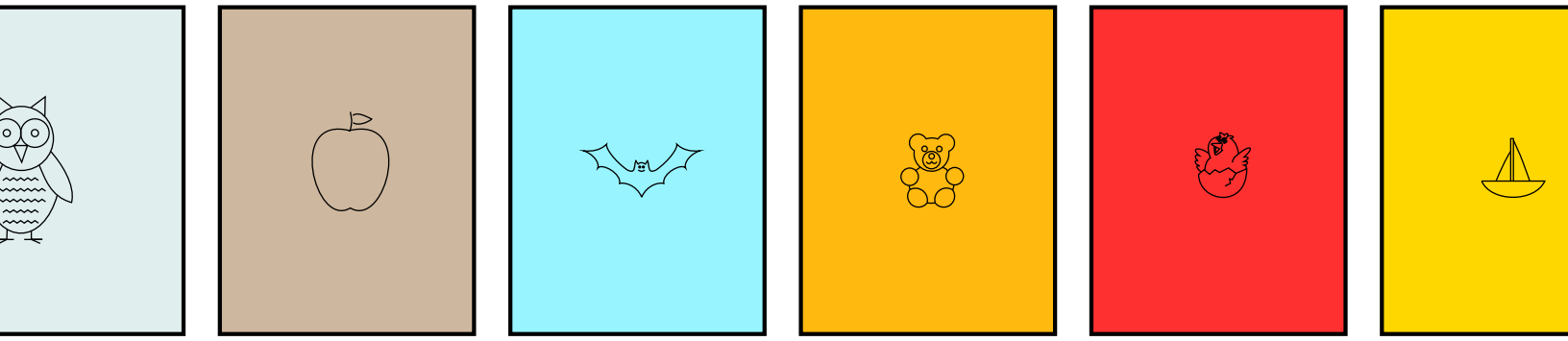
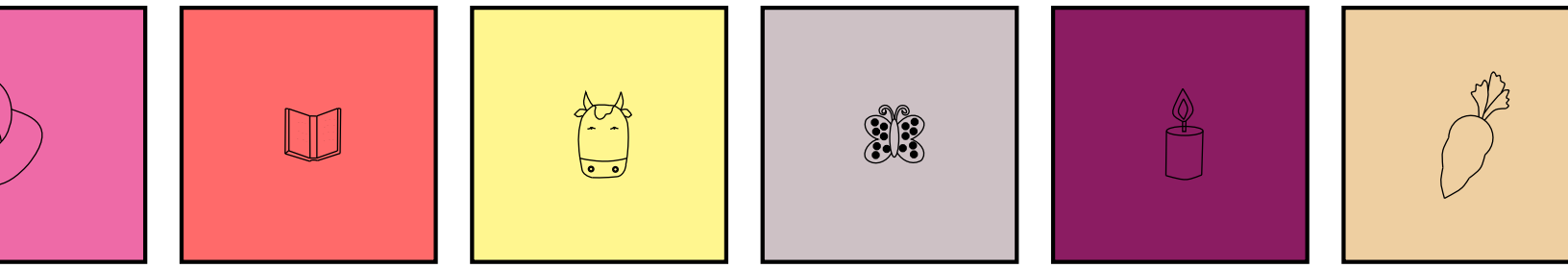
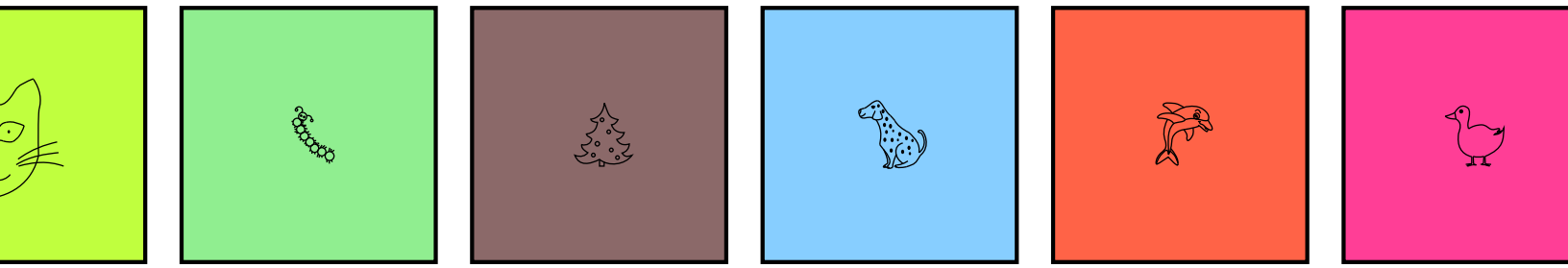
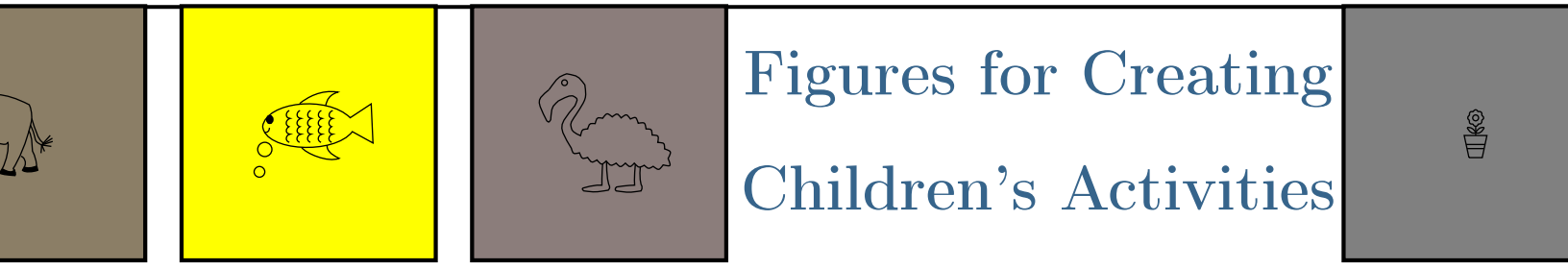


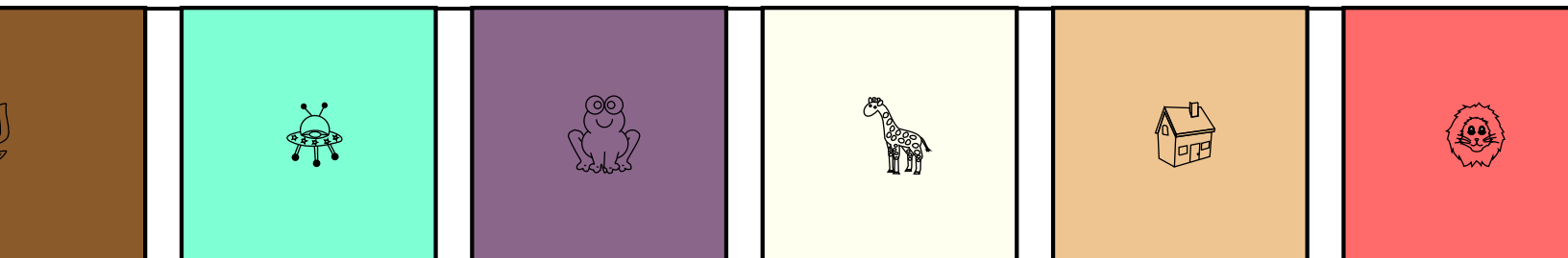
figchild Package







Figures for Creating Children's Activities



figchild: Figures for Creating Children's Activities

https://github.com/fsbmat-ufv/figchild

version 3.1.1

July 15, 2025

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Feature requests, issues and pull requests are welcome.

[1]Author and maintainer of the package (**E-mail:** fernando.bastos@ufv.br)

Abstract

This package was created to facilitate the work of Elementary School teachers who need to design colorful and engaging activities for their students. It is a product of the Computational Mathematics discipline at the Federal University of Viçosa – Campus UFV – Florestal, developed under the guidance of Professor Fernando de Souza Bastos. The package leverages the TikZ and xcolor packages to deliver high-quality, scalable, and customizable figures that can be seamlessly integrated into educational materials.

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1 Introduction

This is a simple yet powerful package designed to quickly create figures for building engaging and visually appealing activities, especially for Basic Education. It can also be used for a variety of other purposes, including crafting coloring books, designing educational exercises, creating playful illustrations, and even making personalized children's birthday gifts.

The package was developed with the collaboration of several students from the Computational Mathematics discipline (MAF 172) at the Federal University of Viçosa – Campus UFV – Florestal (UFV), Brazil. These students contributed significantly to the creation of high-quality vector drawings using the TikZ package, based on images commonly found in children's educational materials worldwide. All of them are recognized as co-authors of the package.

A key feature of the `figchild` package is the great number of figures it offers. Each figure was carefully crafted point by point, using precise coordinates and detailed TikZ commands to ensure clean, scalable, and visually balanced results. Creating such figures in TikZ is a challenging task, often requiring meticulous adjustments of curves, control points, and transformations to achieve the desired shape and style. This level of detail is what sets the package apart and guarantees high-quality output for any project.

Our primary goal is to support teachers, educators, and anyone interested in playful and creative activities by providing a reliable source of high-quality typographic material. With `figchild`, there is no longer a need to spend countless hours designing or searching for low-resolution images on the internet. The package's comprehensive library ensures professional and adaptable figures ready to be incorporated into educational materials, exercises, and artistic projects.

Enjoy the `figchild` package and unleash your creativity!

2 Usage

To use the package, simply add the command to your document's preamble:

```
\usepackage{figchild}
```

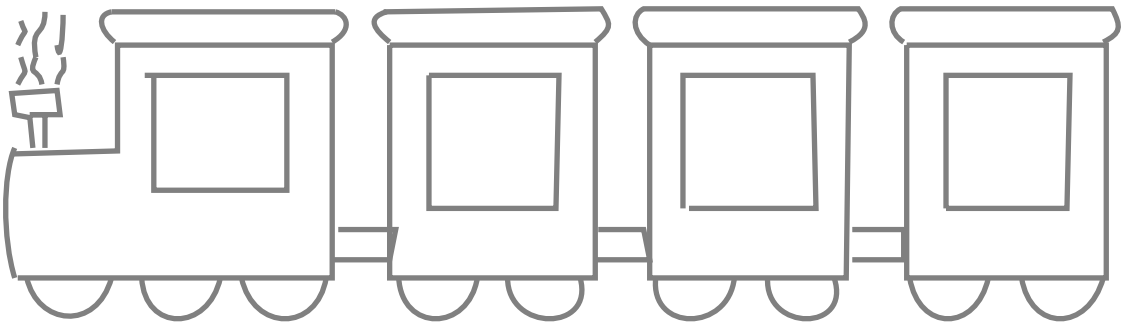
News: Version 3.1.1

- **Full TikZ Options Support:** All TikZ options can now be applied directly by including them inside square brackets after the figure command (e.g., `\fcAbajourA[scale=0.5, rotate=45]`). This makes it easier to customize figures while maintaining compatibility with the standard TikZ syntax.
- **Corrections and Enhancements:** Several figures included in the package have been revised and corrected to improve visual accuracy and consistency.
- **Greater Flexibility:** This version enhances the overall versatility of the package, allowing users to seamlessly integrate figures with diverse TikZ styles and transformations.
- **Backward Compatibility:** Despite these improvements, all previous figure commands and options remain fully compatible, ensuring a smooth update process for existing documents.
- **Improved Documentation:** Updated documentation reflects these changes, providing examples and detailed explanations for advanced usage.

For more details and examples, please refer to the updated package documentation or visit the CTAN page.

To create a little train in the center of the page, of size 2, gray color and with line thickness that defines it of size 2, just use:

```
\begin{center}
 \fcTrain[draw=gray, line width = 2, scale=2]
\end{center}
```



Acknowledgements

I would like to express my sincere gratitude to Matthias Floré (`Matthias.Flore@vub.be`) for his insightful suggestions and valuable feedback, which inspired the changes implemented in this version of the `figchild` package.

Although it took some time to revisit and integrate these ideas, I can finally say: "Better late than never!" Thank you for your patience and your valuable input, which has significantly improved the package's versatility and usability.

3 Figures

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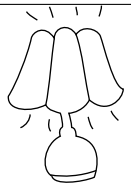
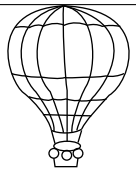
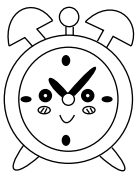
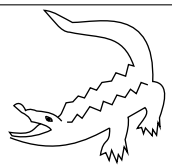
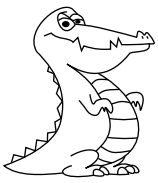
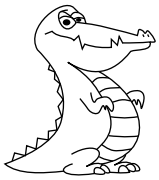
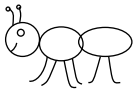
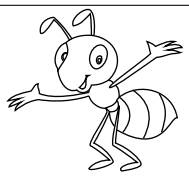
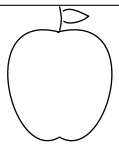
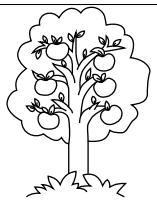
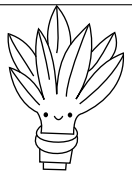
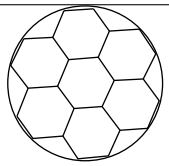
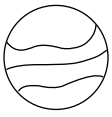
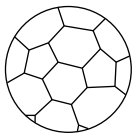
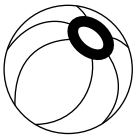
\fcAbajourA		\fcAbajourB		\fcAbajourC	
\fcAbajourD		\fcAirBallon		\fcAlarmClockA	
\fcAlarmClockB		\fcAlligator		\fcAlligatorA	
\fcAlligatorB		\fcAngel		\fcAnt	
\fcAntA		\fcAntelope		\fcApple	
\fcAppleTree		\fcArmadillo		\fcArmadilloA	
\fcAubergine		\fcBabe		\fcBall	
\fcBallA		\fcBallB		\fcBallC	

Table 1: Tabela 1

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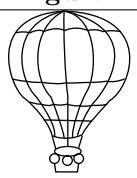
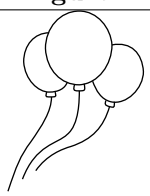
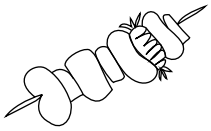
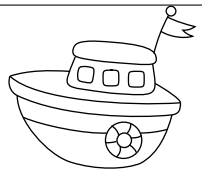
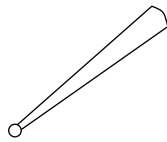
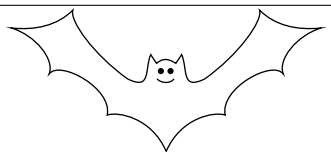
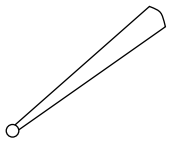
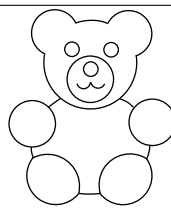
\fcBalloon		\fcBaloonsA		\fcBaloonsB	
\fcBarbecue		\fcBarquet		\fcBaseballBat	
\fcBat		\fcBatA		\fcBear	
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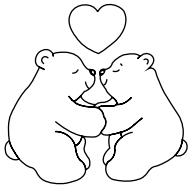
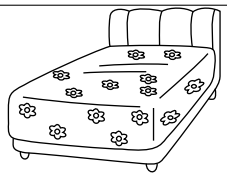
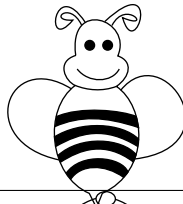
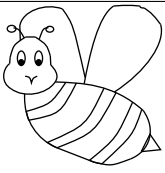
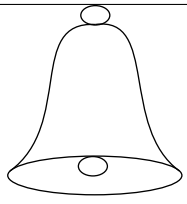
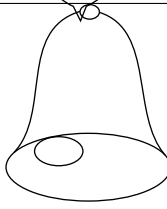
\fcBearG		\fcBears		\fcBed	
\fcBedA		\fcBedsideLamp		\fcBee	
\fcBeeA		\fcBell		\fcBellA	

Table 2: Tabela 2

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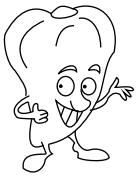
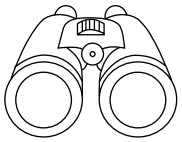
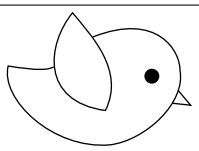
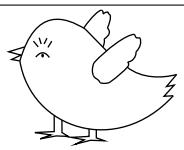
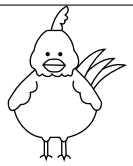
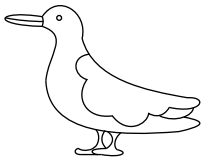
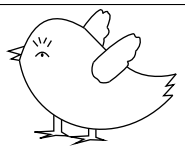
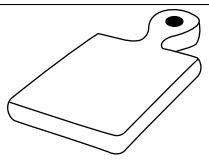
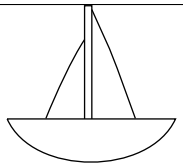
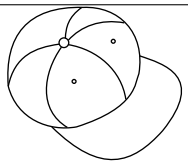
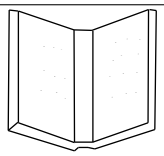
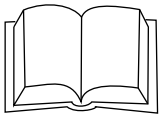
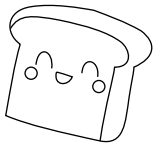
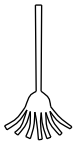
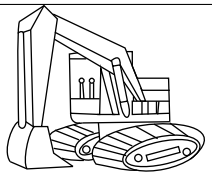
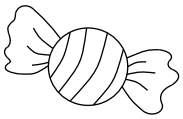
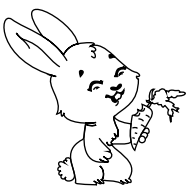
\fcBellPepper		\fcBike		\fcBinoculars	
\fcBird		\fcBirdA		\fcBirdB	
\fcBirdC		\fcBirdD		\fcBirdE	
\fcBirdF		\fcBoard		\fcBoat	
\fcBonnet		\fcBookA		\fcBookB	
\fcBread		\fcBroom		\fcBrownie	
\fcBud		\fcBull		\fcBullA	
\fcBulldozer		\fcBullet		\fcBunnyA	

Table 3: Tabela 3

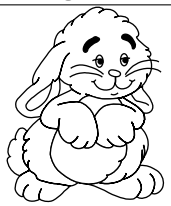
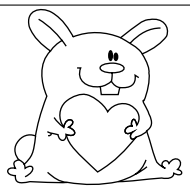
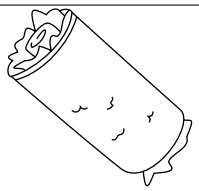
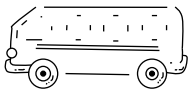
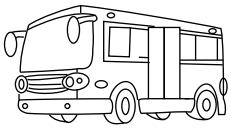
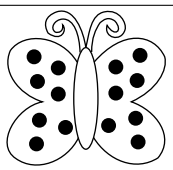
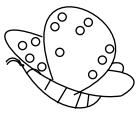
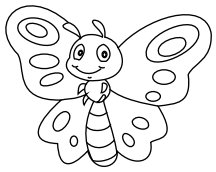
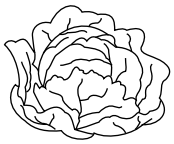
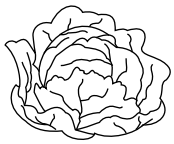
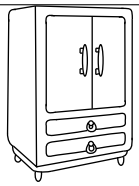
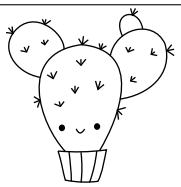
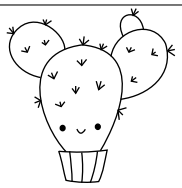
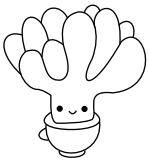
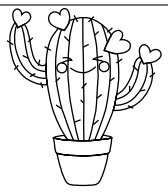
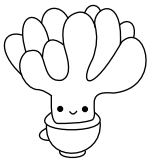
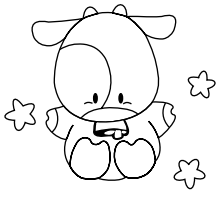
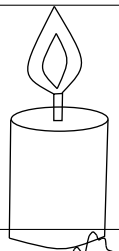
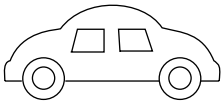
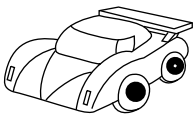
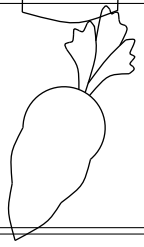
Command	Figure	Command	Figure	Command	Figure
\fcBunnyB		\fcBunnyC		\fcBunnyD	
\fcBunnyE		\fcBurrito		\fcBus	
\fcBusA		\fcButterfly		\fcButterflyA	
\fcButterflyB		\fcButterflyC		\fcCabbage	
\fcCabbageA		\fcCabinet		\fcCactoopuntia	
\fcCactus		\fcCactusA		\fcCactusB	
\fcCactusC		\fcCalf		\fcCandle	
\fcCar		\fcCarA		\fcCarrot	

Table 4: Tabela 4

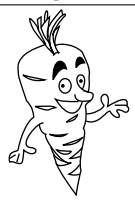
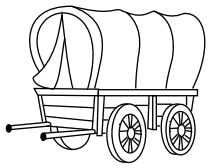
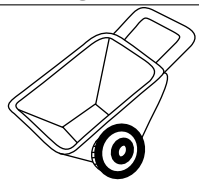
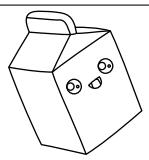
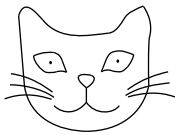
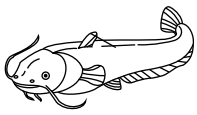
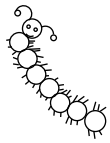
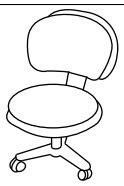
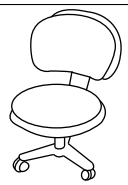
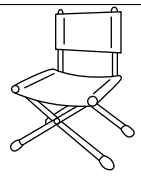
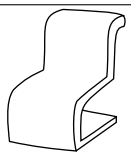
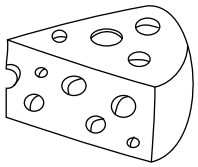
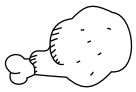
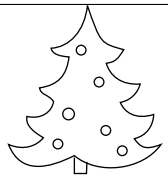
Command	Figure	Command	Figure	Command	Figure
\fcCarrotA		\fcCart		\fcCartA	
\fcCashier		\fcCat		\fcCaterpillar	
\fcCatfish		\fcCellPhone		\fcCentipede	
\fcChair		\fcChairA		\fcChairB	
\fcChairC		\fcChairD		\fcCheese	
\fcCherry		\fcChick		\fcChicken	
\fcChickenA		\fcChickenThigh		\fcChicks	
\fcChive		\fcChristmasTree		\fcChrysanthemum	

Table 5: Tabela 5

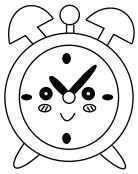
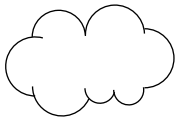
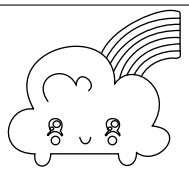
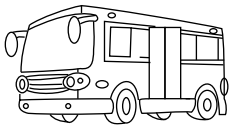
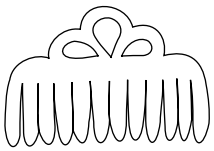
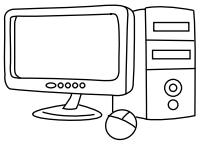
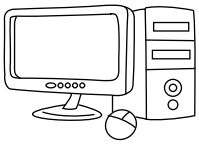
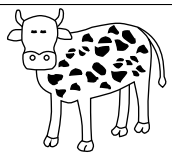
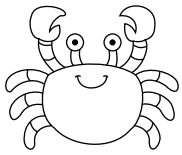
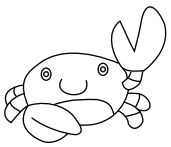
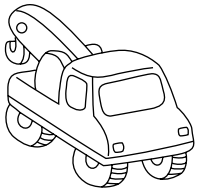
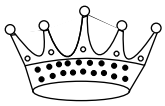
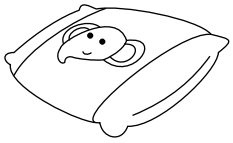
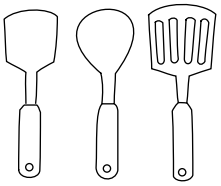
Command	Figure	Command	Figure	Command	Figure
\fcClock		\fcClockA		\fcCloud	
\fcCloudA		\fcCloudB		\fcCloudC	
\fcCoach		\fcCobrabebe		\fcComb	
\fcComputer		\fcComputerA		\fcCow	
\fcCrabA		\fcCrabB		\fcCrane	
\fcCrown		\fcCrownA		\fcCucumber	
\fcCucumberA		\fcCupcake		\fcCupcakeA	
\fcCupcakeB		\fcCushion		\fcCutlery	

Table 6: Tabela 6

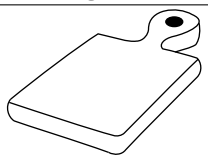
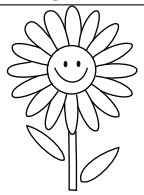
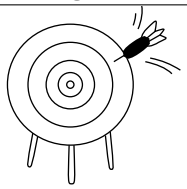
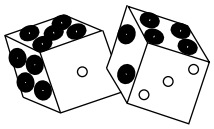
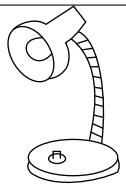
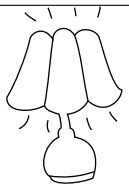
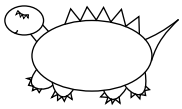
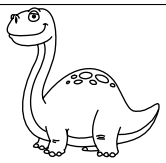
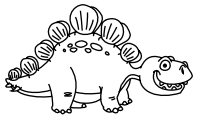
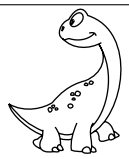
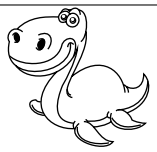
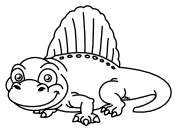
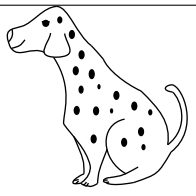
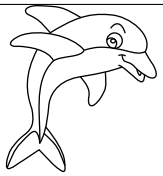
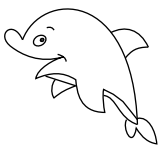
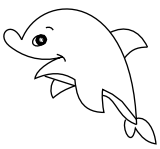
Command	Figure	Command	Figure	Command	Figure
\fcCuttingBoard		\fcDaisy		\fcDarts	
\fcData		\fcDeskLamp		\fcDeskLampA	
\fcDeskLampB		\fcDeskLampC		\fcDeskLampD	
\fcDino		\fcDinosaurA		\fcDinosaurB	
\fcDinosaurC		\fcDinosaurD		\fcDinosaurE	
\fcDinosaurF		\fcDinosaurG		\fcDinosaurH	
\fcDinosaurI		\fcDinosaurJ		\fcDog	
\fcDolphin		\fcDolphinA		\fcDolphinB	

Table 7: Tabela 7

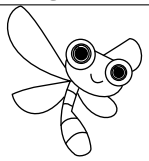
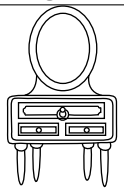
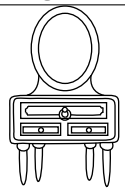
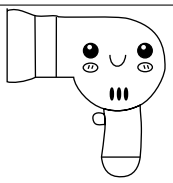
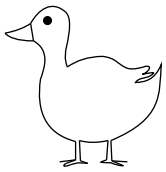
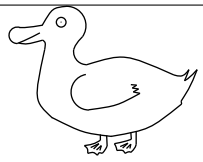
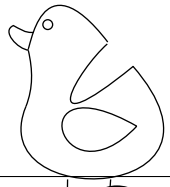
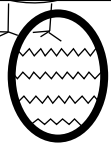
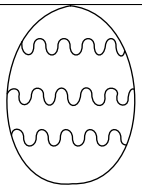
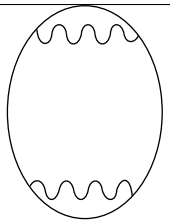
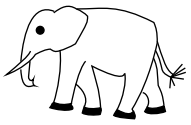
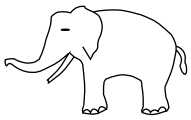
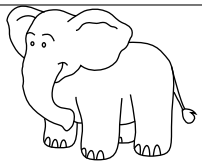
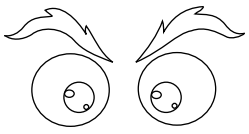
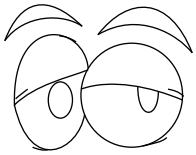
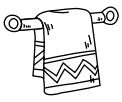
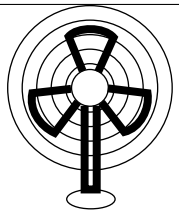
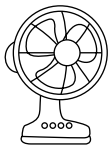
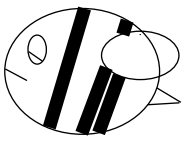
Command	Figure	Command	Figure	Command	Figure
\fcDragonFly		\fcDressingTable		\fcDressingTableA	
\fcDryer		\fcDuck		\fcDuckA	
\fcDuckB		\fcDuckC		\fcEar	
\fcEgg		\fcEggA		\fcEggB	
\fcEggplant		\fcElephant		\fcElephantA	
\fcElephantB		\fcET		\fcExcavator	
\fcEyebrows		\fcEyes		\fcFaceTowel	
\fcFan		\fcFanA		\fcFish	

Table 8: Tabela 8

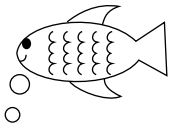
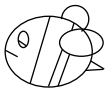
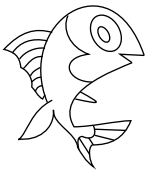
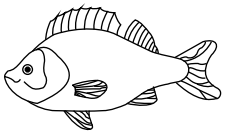
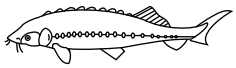
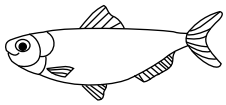
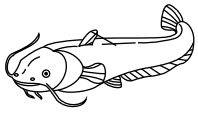
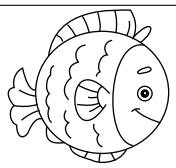
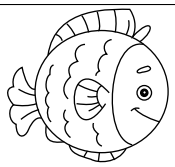
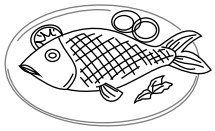
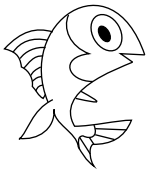
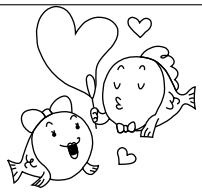
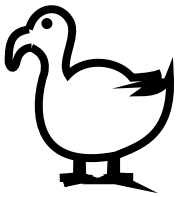
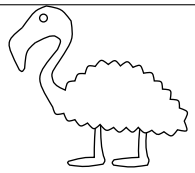
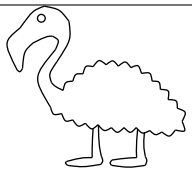
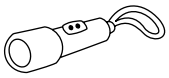
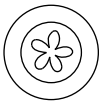
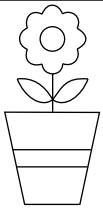
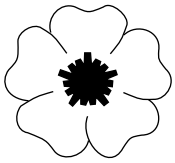
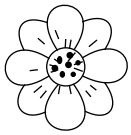
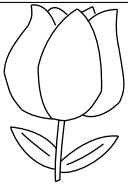
Command	Figure	Command	Figure	Command	Figure
\fcFishA		\fcFishB		\fcFishC	
\fcFishD		\fcFishE		\fcFishF	
\fcFishG		\fcFishH		\fcFishI	
\fcFishJ		\fcFishK		\fcFishL	
\fcFishM		\fcFlamingo		\fcFlamingoA	
\fcFlamingoB		\fcFlashlight		\fcFlower	
\fcFlowerA		\fcFlowerB		\fcFlowerC	
\fcFlowerD		\fcFlowerE		\fcFlowerF	

Table 9: Tabela 9

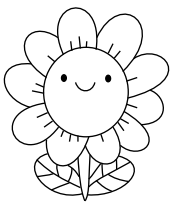
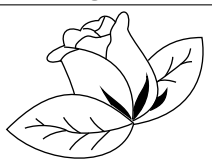
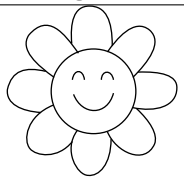
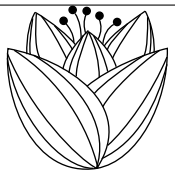
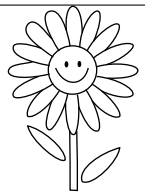
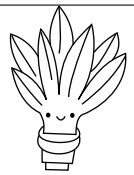
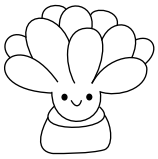
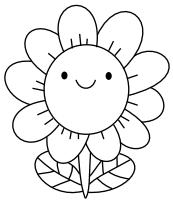
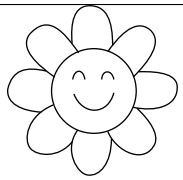
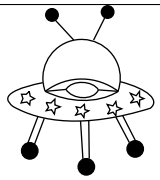
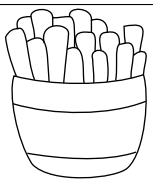
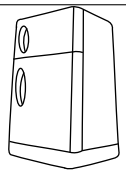
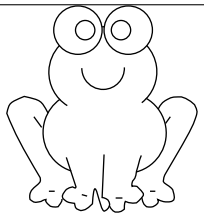
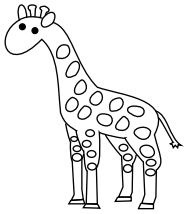
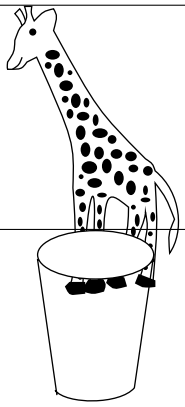
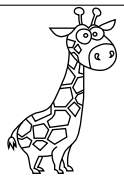
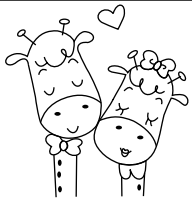
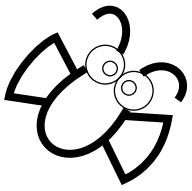
Command	Figure	Command	Figure	Command	Figure
\fcFlowerG		\fcFlowerH		\fcFlowerI	
\fcFlowerJ		\fcFlowerK		\fcFlowerL	
\fcFlowerM		\fcFlowerN		\fcFlowerO	
\fcFlowerP		\fcFlyingSaucer		\fcFrenchFries	
\fcFridge		\fcFrog		\fcfrog	
\fcFrogA		\fcGhost		\fcGiraffe	
\fcGiraffeA		\fcGiraffeB		\fcGiraffes	
\fcGlass		\fcGloves		\fcGnat	

Table 10: Tabela 10

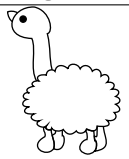
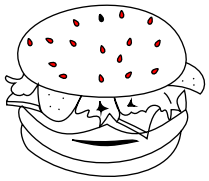
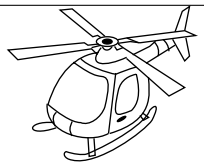
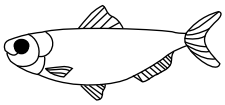
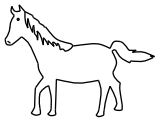
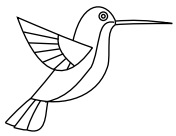
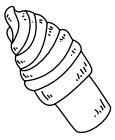
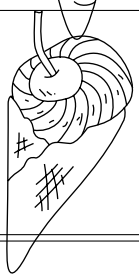
Command	Figure	Command	Figure	Command	Figure
\fcGoose		\fchamburger		\fcHamster	
\fcHand		\fcHat		\fcHatA	
\fcHelicopter		\fcHerring		\fcHippo	
\fcHorse		\fcHorseA		\fcHorseB	
\fcHouse		\fcHouseA		\fcHouseB	
\fcHouseC		\fcHummingbird		\fcIceCreamA	
\fcIceCreamB		\fcIceCreamC		\fcIceCreamD	
\fcIceCreamE		\fcIceCreamF		\fcIceCreamG	

Table 11: Tabela 11

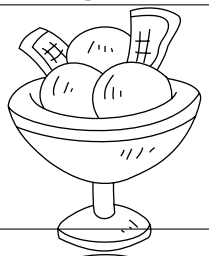
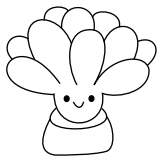
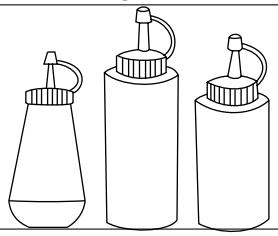
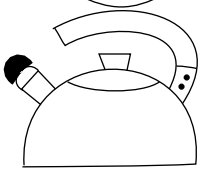
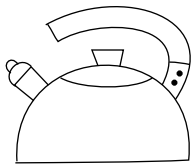
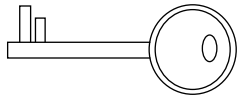
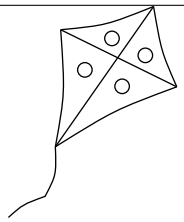
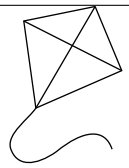
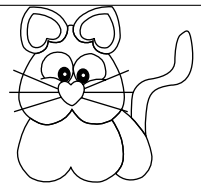
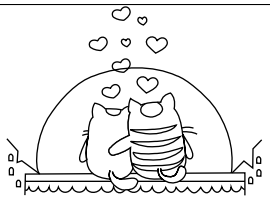
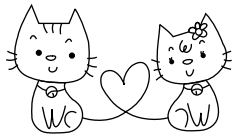
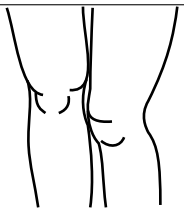
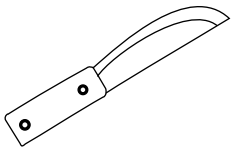
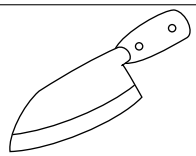
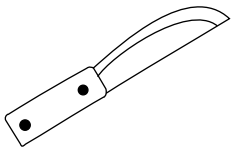
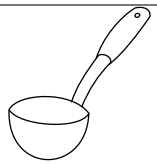
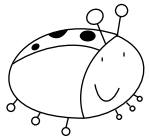
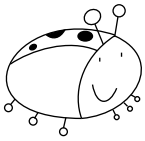
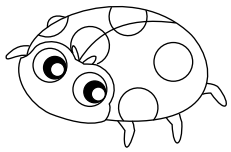
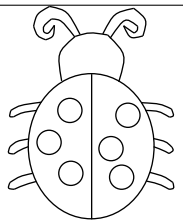
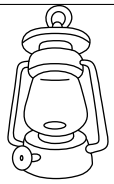
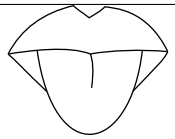
Command	Figure	Command	Figure	Command	Figure
\fcIceCreamH		\fcJuicy		\fcKetchup	
\fcKettle		\fcKettleA		\fcKey	
\fcKite		\fcKiteA		\fcKittenA	
\fcKittenB		\fcKittensA		\fcKittensB	
\fcKnees		\fcKnife		\fcKnifeA	
\fcKnifeB		\fcLadle		\fcLadybird	
\fcLadybirdA		\fcLadybirdB		\fcLadyBug	
\fcLamb		\fcLamp		\fcLanguage	

Table 12: Tabela 12

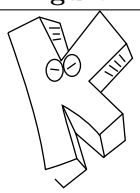
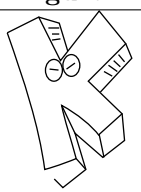
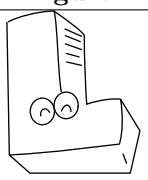
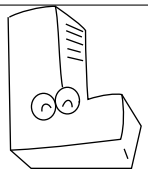
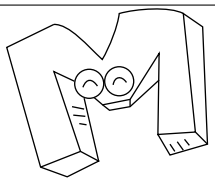
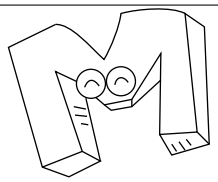
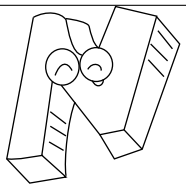
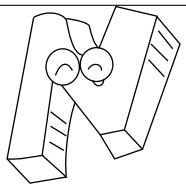
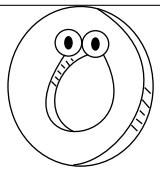
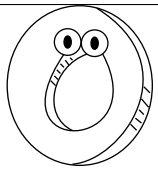
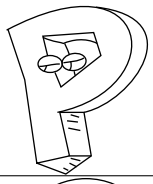
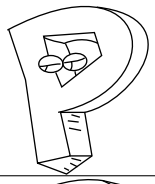
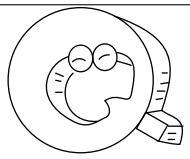
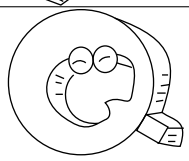
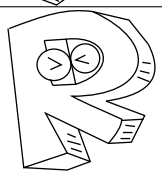
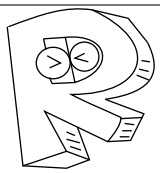
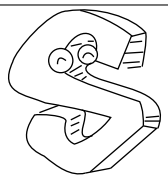
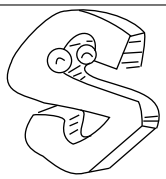
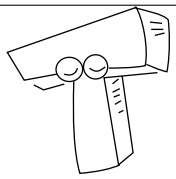
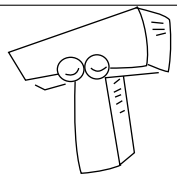
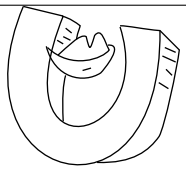
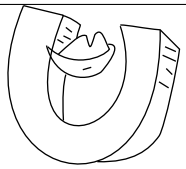
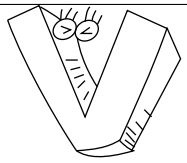
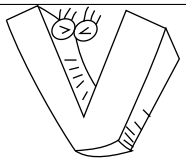
Command	Figure	Command	Figure	Command	Figure
\fcLetterK		\fcLetterKA		\fcLetterL	
\fcLetterLA		\fcLetterM		\fcLetterMA	
\fcLetterN		\fcLetterNA		\fcLetterO	
\fcLetterOA		\fcLetterP		\fcLetterPA	
\fcLetterQ		\fcLetterQA		\fcLetterR	
\fcLetterRA		\fcLetterS		\fcLetterSA	
\fcLetterT		\fcLetterTA		\fcLetterU	
\fcLetterUA		\fcLetterV		\fcLetterVA	

Table 13: Tabela 13

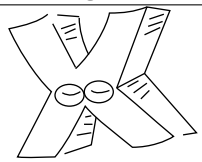
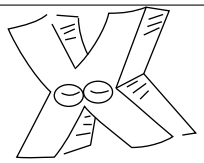
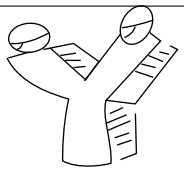
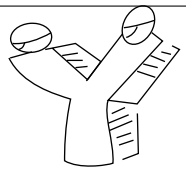
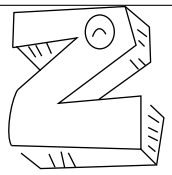
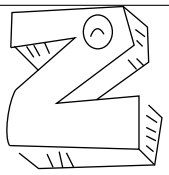
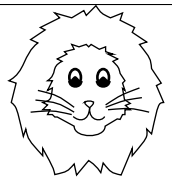
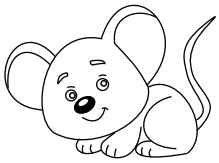
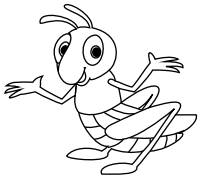
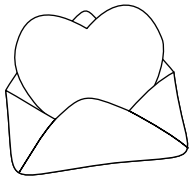
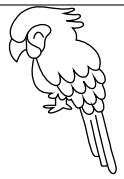
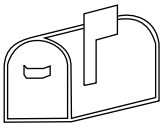
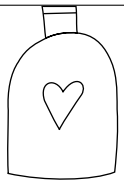
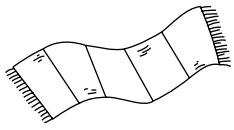
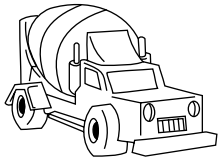
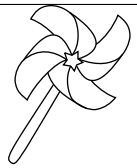
Command	Figure	Command	Figure	Command	Figure
\fcLetterW		\fcLetterWA		\fcLetterX	
\fcLetterXA		\fcLetterY		\fcLetterYA	
\fcLetterZ		\fcLetterZA		\fcLightBulb	
\fcLightning		\fcLion		\fcLionA	
\fcLittleBirds		\fcLittleMouse		\fcLocust	
\fcLouvadeus		\fcLoveLetter		\fcMacaw	
\fcMailbox		\fcMailBoxA		\fcMat	
\fcMeton		\fcMill		\fcMirror	

Table 14: Tabela 14

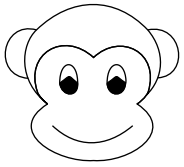
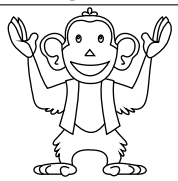
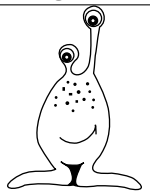
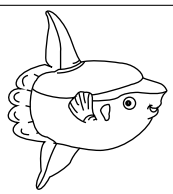
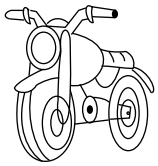
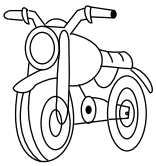
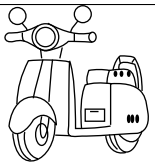
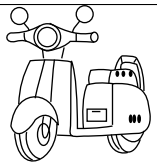
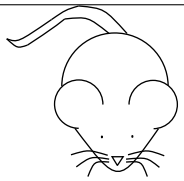
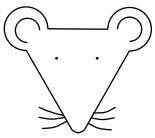
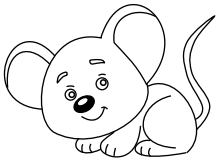
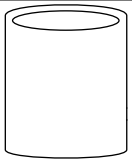
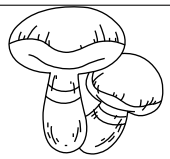
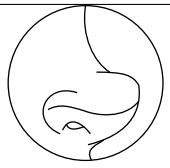
Command	Figure	Command	Figure	Command	Figure
\fcMonkey		\fcMonkeyA		\fcMonster	
\fcMoon		\fcMoonA		\fcMoonB	
\fcMoonfish		\fcMoose		\fcMoped	
\fcMotorcycle		\fcMotorcycleA		\fcMotorScooter	
\fcMouse		\fcMouseA		\fcMouseB	
\fcMouseC		\fcMouseD		\fcMug	
\fcMushroom		\fcMushroomA		\fcMushroomB	
\fcNose		\fcNuggets		\fcNumberEight	

Table 15: Tabela 15

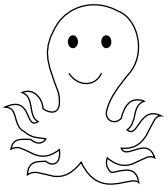
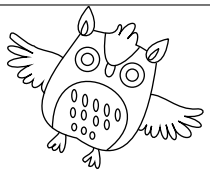
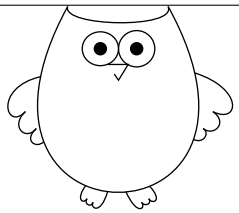
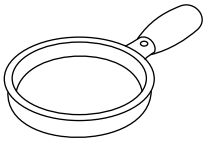
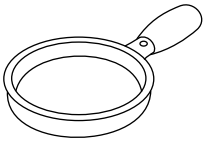
Command	Figure	Command	Figure	Command	Figure
\fcNumberFive		\fcNumberFour		\fcNumberNine	
\fcNumberOne		\fcNumberSeven		\fcNumberSix	
\fcNumberTen		\fcNumberThree		\fcNumberTwo	
\fcOctopus		\fcOctopusA		\fcOctopusB	
\fcOnion		\fcOnionA		\fcOrca	
\fcOstrich		\fcOwl		\fcOwlA	
\fcOwlB		\fcOx		\fcPalmTree	
\fcPan		\fcPanA		\fcPanB	

Table 16: Tabela 16

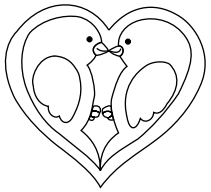
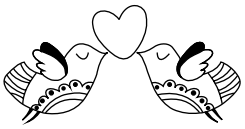
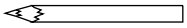
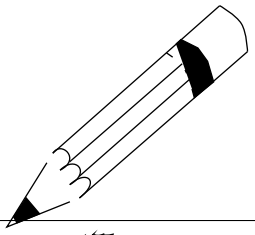
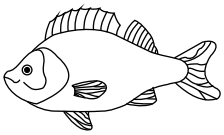
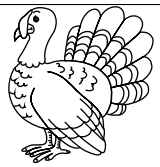
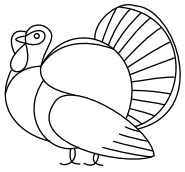
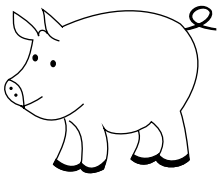
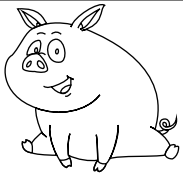
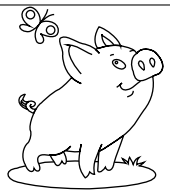
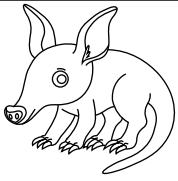
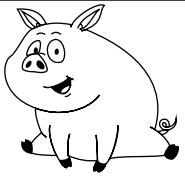
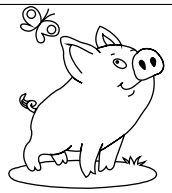
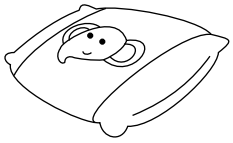
Command	Figure	Command	Figure	Command	Figure
\fcPandaBear		\fcParrot		\fcPassA	
\fcPassB		\fcPeacock		\fcPencil	
\fcPencilA		\fcPenguin		\fcPenguinA	
\fcPerch		\fcPeruA		\fcPeruB	
\fcPhone		\fcPig		\fcPigA	
\fcPigB		\fcPigC		\fcPigD	
\fcPigE		\fcPigF		\fcPigG	
\fcPigH		\fcPigI		\fcPillow	

Table 17: Tabela 17

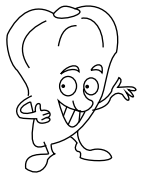
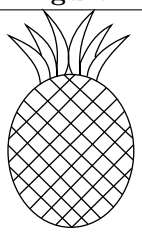
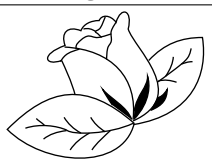
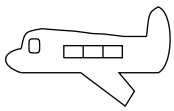
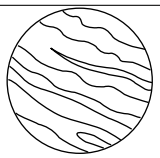
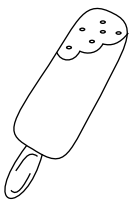
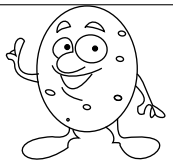
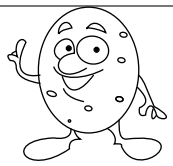
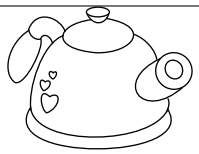
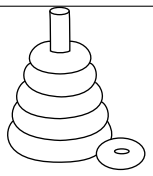
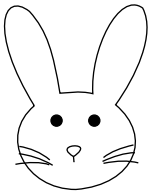
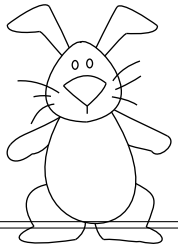
Command	Figure	Command	Figure	Command	Figure
\fcPimento		\fcPineapple		\fcpink	
\fcPlane		\fcPlaneA		\fcPlanetA	
\fcPlanetB		\fcPlanetC		\fcPlanetD	
\fcPlanetE		\fcPlanetF		\fcPlanetG	
\fcPlanets		\fcPopsicle		\fcPotato	
\fcPotatoA		\fcPulse		\fcPumpkin	
\fcPumpkinA		\fcPuppy		\fcPyramid	
\fcRabbit		\fcRabbitA		\fcRabbitB	

Table 18: Tabela 18

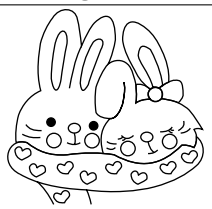
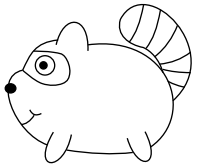
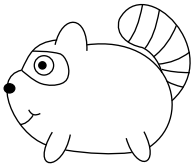
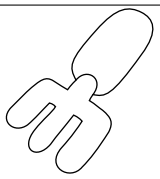
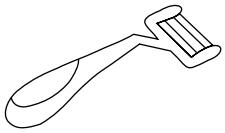
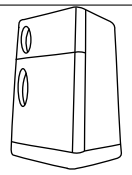
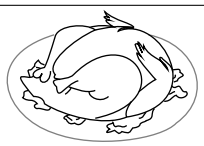
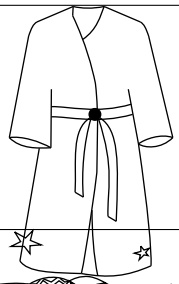
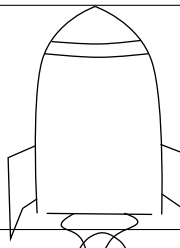
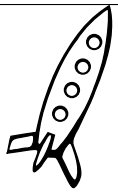
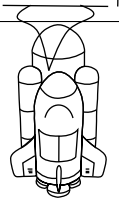
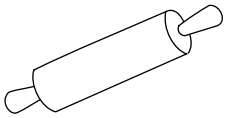
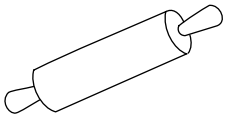
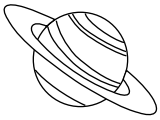
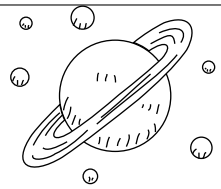
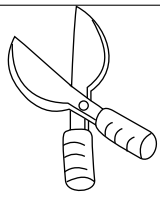
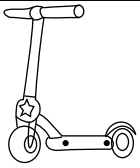
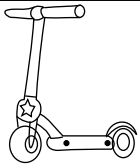
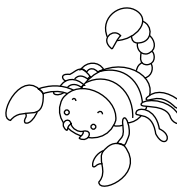
Command	Figure	Command	Figure	Command	Figure
\fcRabbits		\fcRaccoon		\fcRacoon	
\fcRake		\fcRazor		\fcRefrigerator	
\fcRoastChicken		\fcRobe		\fcRocket	
\fcRocketA		\fcRocketB		\fcRocketC	
\fcRoller		\fcRollingPin		\fcSandal	
\fcSaturnA		\fcSaturnB		\fcScallion	
\fcScaredEgg		\fcSchoolbag		\fcScissors	
\fcScooter		\fcScooterA		\fcScorpion	

Table 19: Tabela 19

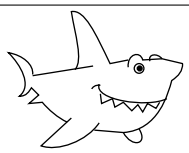
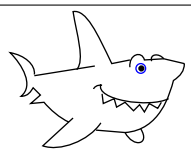
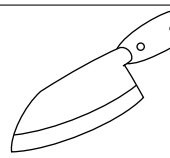
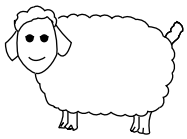
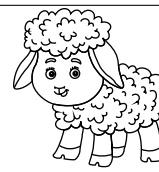
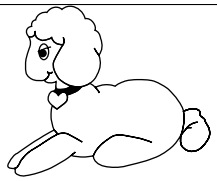
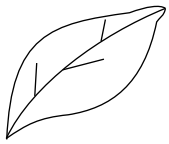
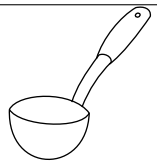
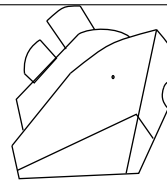
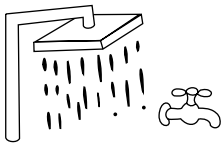
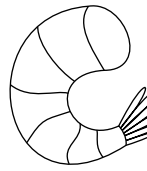
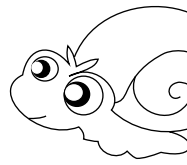
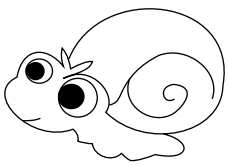
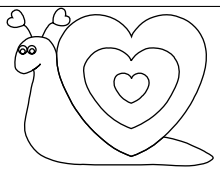
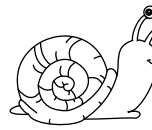
Command	Figure	Command	Figure	Command	Figure
\fcSeahorse		\fcSeahorseA		\fcSeeds	
\fcShark		\fcSharkA		\fcSharpKnife	
\fcSheep		\fcSheepA		\fcSheepB	
\fcSheepC		\fcSheet		\fcsheetA	
\fcsheetB		\fcShell		\fcShip	
\fcShootingStar		\fcShower		\fcShrimp	
\fcSleepingBag		\fcSleepingBagA		\fcSnail	
\fcSnailA		\fcSnailB		\fcSnailC	

Table 20: Tabela 20

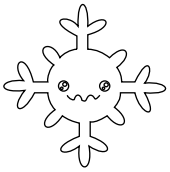
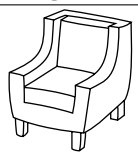
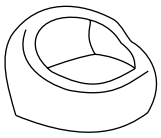
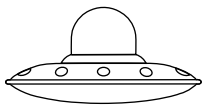
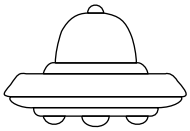
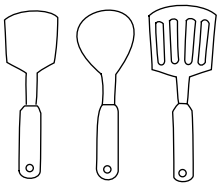
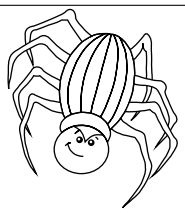
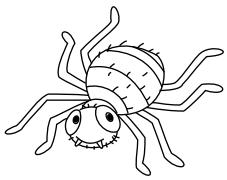
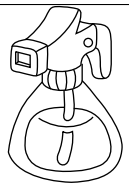
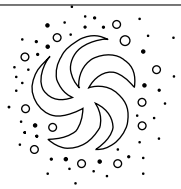
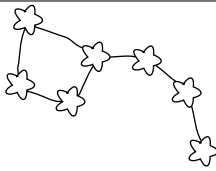
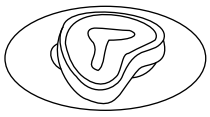
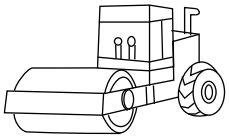
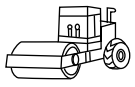
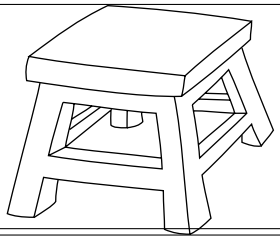
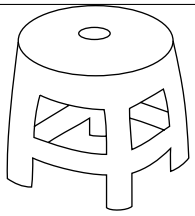
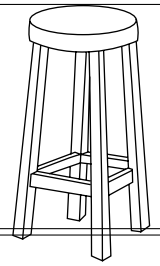
Command	Figure	Command	Figure	Command	Figure
\fcSnowflake		\fcSock		\fcSofaA	
\fcSofaB		\fcSpacecraftA		\fcSpacecraftB	
\fcSpatulas		\fcSpider		\fcSpiderA	
\fcSpiderB		\fcSpinning		\fcSpray	
\fcSquirrel		\fcSquirrelA		\fcStar	
\fcStarA		\fcStarB		\fcStars	
\fcSteak		\fcSteamroller		\fcSteamrollerA	
\fcStoolA		\fcStoolB		\fcStoolC	

Table 21: Tabela 21

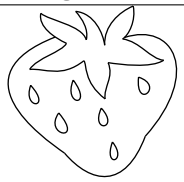
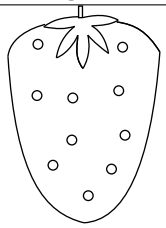
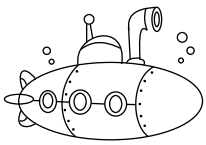
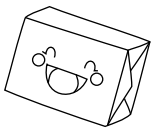
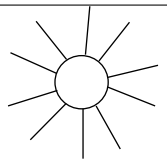
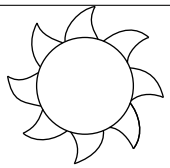
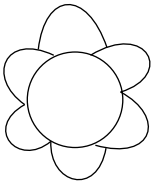
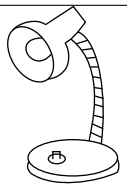
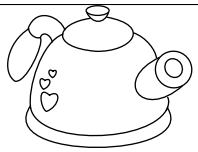
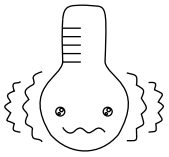
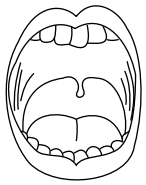
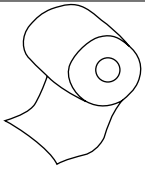
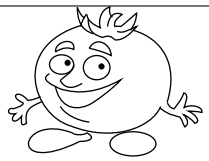
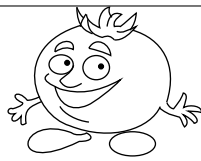
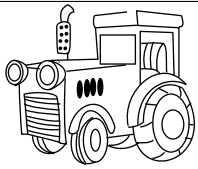
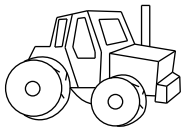
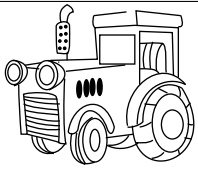
Command	Figure	Command	Figure	Command	Figure
\fcStrawberry		\fcStrawberryA		\fcSturgeon	
\fcSubmarineA		\fcSugar		\fcSun	
\fcSunA		\fcSunB		\fcTableLight	
\fcTeapot		\fcTelevision		\fcTent	
\fcThermometerA		\fcThermometerB		\fcThroat	
\fcToiletPaper		\fcTomato		\fcTomatoA	
\fcTony		\fcTornado		\fcToucan	
\fcTractorA		\fcTractorB		\fcTractorC	

Table 22: Tabela 22

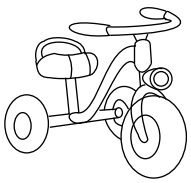
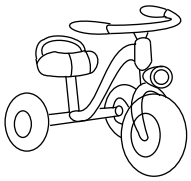
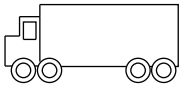
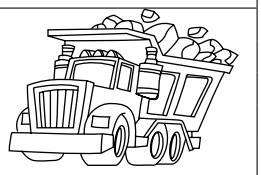
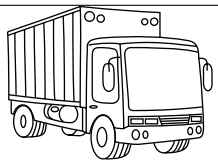
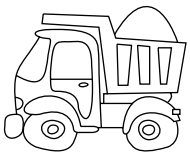
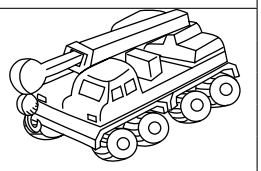
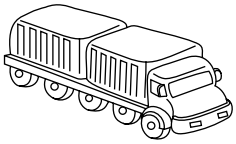
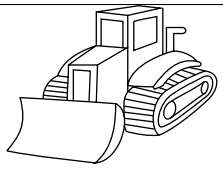
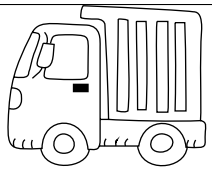
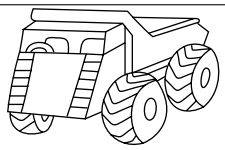
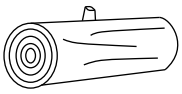
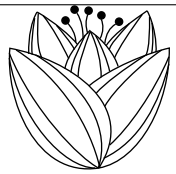
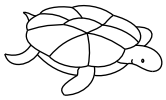
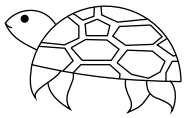
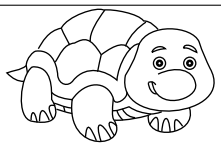
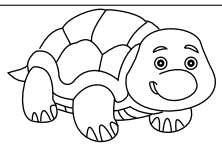
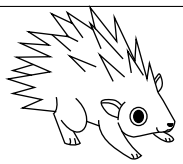
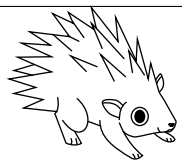
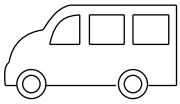
Command	Figure	Command	Figure	Command	Figure
\fcTrain		\fcTree		\fcTricycle	
\fcTricycleA		\fcTruck		\fcTruckA	
\fcTruckB		\fcTruckC		\fcTruckD	
\fcTruckE		\fcTruckF		\fcTruckG	
\fcTruckH		\fcTrunk		\fcTulip	
\fcTurnip		\fcTurtle		\fcTurtleA	
\fcTurtleB		\fcTurtleC		\fcUmbrella	
\fcUrchin		\fcUrchinA		\fcVan	

Table 23: Tabela 23

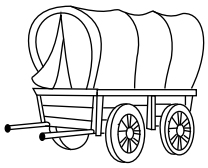
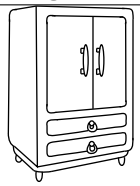
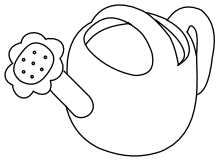
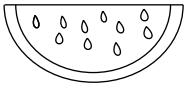
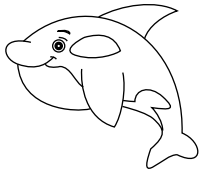
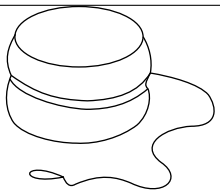
Command	Figure	Command	Figure	Command	Figure
\fcVase		\fcWagon		\fcWardrobe	
\fcWateringCan		\fcWatermelon		\fcWhale	
\fcWitchHat		\fcYoyo		\fcZebra	

Table 24: Tabela 24