Καθηγητής Πληροφορικής
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EXERCISES CHAPTER 3



EXERCISE 1

Fill the missing words in the following sentences:

1.	Each turtle in Logo has name, position,, shape, color and pen width.
2.	To make a turtle execute a set of commands, we should on it.
3.	When we on a turtle we can open its menu.
4.	To change a turtle's direction, we should drag its in order to rotate it.
5.	A turtle always moves to the direction it is
6.	To stop a moving turtle, we should click on it, or we select the Stop All button or we press the
	button on the keyboard.
7.	In palette we can change the color and the pen width of a turtle.
	When we create a turtle, its pen is up. To make the turtle put the pen down, we should type the
	command
9.	In tab we can see all the existent turtles of the page as well as their names and
	command sets.
10.	With the tool, a turtle can stamp its copy to the background of the page.
	In the field of the turtle's backpack we can see the set of commands that has been
	given to be executed by the turtle once or multiple times.
12.	To change the size of a turtle we use the command.
	Inside the Painting/Clipart palette there are two different collections of shapes: Singles and
14.	To change the color of a turtle, we first select the color, then we select the tool and
	finally we click on it.
15.	To add a set of shapes (animation) in a turtle, we should select the shapes in the Painting/Clipart
	palette by holding simultaneously the button of the keyboard.
16.	In the field of turtle's backpack we can program the turtle to react when it detects a
	specific color of the color palette.
17.	When we select the command from the turtle's menu, we make the turtle start moving
	on the page.
18.	When we type the command rt we make a turtle bounce (change its heading to the
	opposite direction).
19.	In the field of the turtle's backpack, we can program the turtle to react when it
	touches another turtle on the page.
20.	In the field of the turtle's backpack, we can make a turtle execute a set of commands
	repeatedly after a preset interval, based on a clock built into MicroWorlds.

EXERCISE 2

- A) Describe the steps we must follow to **create 3** turtles on a page. Which **command** can be used alternatively to create a turtle?
- B) How can we **rename** the previous turtles with the following names: x1, x2 and x3.
- **C) Explain** each one of the following **instructions**:

```
x1, pd bk 150
x2, setsize 100
x3, rt 90
x2, ht
x2, fd 200 st
```

EXERCISE 3

Given the next dialogue box, try to answer the following questions:



- A) Explain what do these commands cause to the turtle.
- **B)** How can we open this **dialogue box**?
- C) What happens, if we change the mode to Once in this dialogue box?
- **D)** How can we make the turtle to **move faster** inside the page?

EXERCISE 4

Given the next set of instructions in the command center, try to answer the following commands:

```
maria, pd fd 100
george,
rt 90 setc 55
nick, setc "red
thomas bk 50
jenny,
fd 50 ht
```

- A) How many turtles exist on the page?
- **B)** What are the names of the existent turtles?
- C) Which turtles change their colors and what are the colors?
- D) Which of the turtles become invisible?
- **E)** Where do we have a syntax error inside the commands?
- **F)** What kind of error message does the system display?

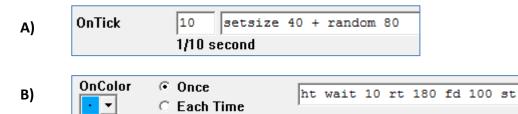
EXERCISE 5

Explain the steps we should follow in order to create a turtle inside the page. The turtle should have the "bird" shape and it should move its feathers staying in the same position without moving.



EXERCISE 6

Given the next dialogue boxes that are parts of a turtle's backpack, try to explain each of their command sets:





C Each Time