

User guide

What is Imagine logo

Imagine logo is an entertainment program for creating 2D drawings by giving commands to a turtle.

Getting started

To start using the program go to the `gui.py` file and run the code.

Controlling turtle

To move the turtle use command `move [units]`. By default turtle faces north and there it will go. To turn the turtle clockwise use command `turn [angle]`. The turtle will now move in the direction you specified. By default, the turtle leaves a trail when it moves, to change this, pick up the turtle using command `up`. To put it down use command `down`.

Menu

1. File menu

1.1 New

Returns everything to its original position. **Attention!** Make sure all changes are saved before creating a new file.

2.2 Open

Opens a text file with commands and executes them. **Attention!** All undefined commands will be skipped.

2.3 Save image

Opens a window for choosing a direction to save the image obtained while moving the turtle.

2.4 Save txt

Opens a window for choosing a direction to save commands in `.txt` format obtained while moving the turtle.

2.5 Exit

Closes the application. **Attention!** Make sure all changes are saved before closing the application.

2. Help

2.1 User guide

Shows user guide.

2.2 For developers

Shows technical documentation.

Technical documentation

`gui`

The main program file. Initialization of the `MainWindow` class creates a `UI` class (from `ui.py` module) object responsible for the main program interface, creates turtle image and calls `createMenu` and `initialValues` methods. Calls `main` method when the command is entered.

`createMenu` method creates a `Menu` class object responsible for creating and managing top program menu.

`initialValues` method sets the initial values of the variables when the program starts.

`main` method creates a `InputProcessing` class (from `InputProcessing.py`) object responsible for processing the input.

`inputProcessing`

Module responsible for processing the input. If the input is correct, depending on it, creates an object of `Move` or `Turn` class (from `logomocja_choice.py`). Shows an error if the input is incorrect.

`choice`

`Turn` class:

Initialized when the `turn` command is given. Rotates the image, sets the anchor.

`Move` class:

Initialized when the `move` command is given. Sets new coordinates of the image, moves it and draws a line if the turtle is down. Creates a `CrossedBorder` class (from `bordersCrossing.py`) object if canvas border is crossed while moving the image.