

Settings

Preview

☒ TextField

☐ Slider

☒ CheckBox

☐ Button

☒ RadioButton

☐ Spinner

Quantity

☒ Disabled

☐ Noise

☐ High Contrast

☒



# AI Learning App

Version 1.1

## User manual

## ① About the “AILEarningApp” application

The “AILEarningApp” is a software tool which generates images of different types of controls for training or testing neural network.

For working with the application you need to have a neural network, which is capable of training on generated images.

This user guide presents an overview of the application’s features and gives step-by-step instructions for installation of the app and generating controls.

## ② System requirements

Please ensure that your computer meets or exceeds the following system requirements before installing the “AILEarningApp” application.

<b>CPU</b>	Core 2 duo or or higher
<b>RAM</b>	1GB
<b>Available disk space</b>	300 MB or higher
<b>Operating system</b>	Windows 7/8/10, MacOS X 10.9 and above, Ubuntu 12.04 and above
<b>Java version</b>	JRE 8 or higher

## ③ Installation and launch

1. Make sure, that you have JRE 8 or higher. If not, download it from the official website. Download JRE here: [www.java.com/en/](http://www.java.com/en/)
2. Download program here: <https://github.com/yaroslaver/AILEarningApp/>  
Don’t forget to change branch on the branch with your OS.

### 3. **Windows**

Run *windows.cmd*

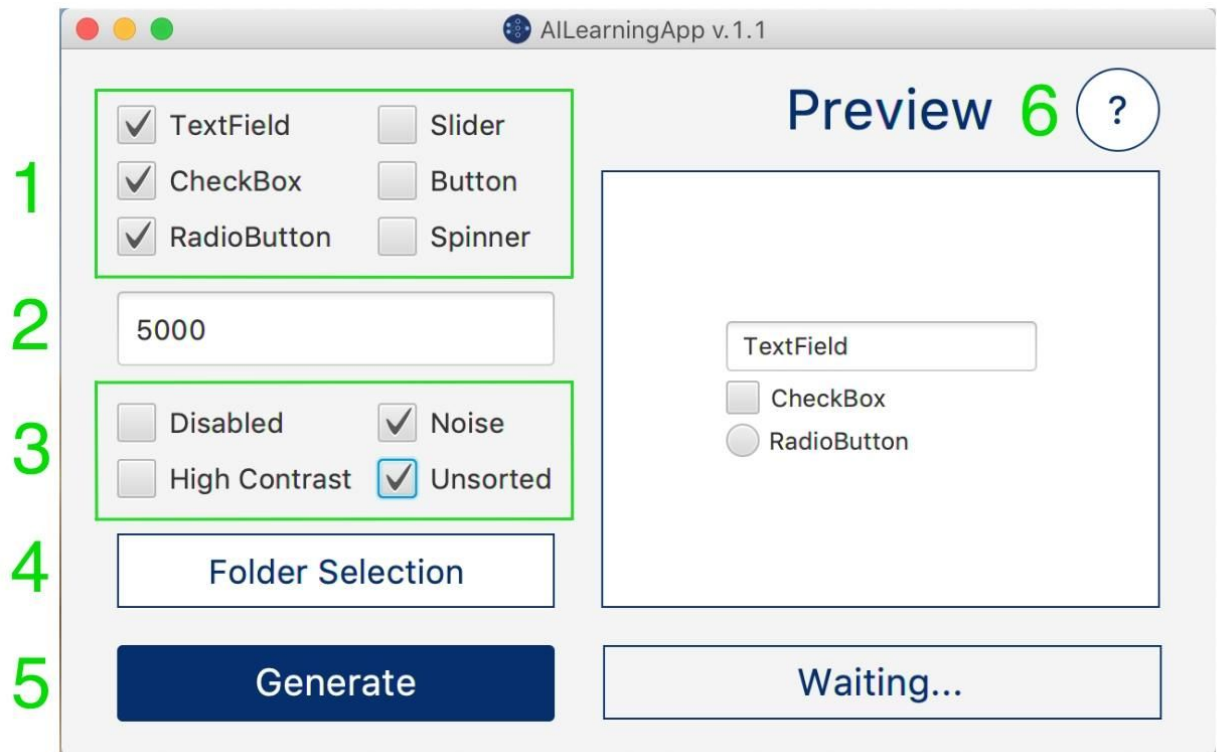
### **Linux/macOS X**

Run makefile, using the command: *make*.

Then run *unix.sh*, using the command: *./unix.sh* or *bash unix.sh*

#### ④ How to use it

The application launch gets you to the main menu. To generate images of the controls you need to configure some settings.



1. Select all required controls. When you choose any control you can see how it looks at the ***“Preview”***.
2. Enter the required quantity of the controls. Every selected control will be generated in this quantity. For example, if you select three controls and enter 5000 you will get 15 000 images of the controls.
3. Choose any option:

##### ***a. Disabled***

By default, all controls are generated in the enable state. If you need to make some controls disabled (random amount), choose this option;

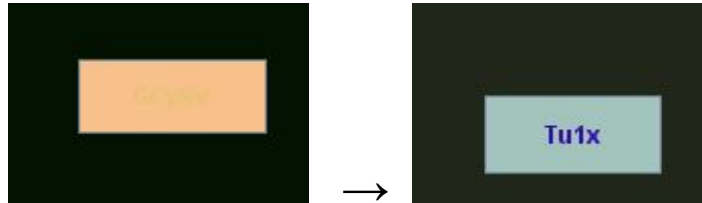
*Example:*



##### ***b. High Contrast***

By default, color of control and color of text are generated randomly. If you choose this option, color of text inside control always will be high contrast, so on the black background color of text will be bright, also on the bright background text will be dark;

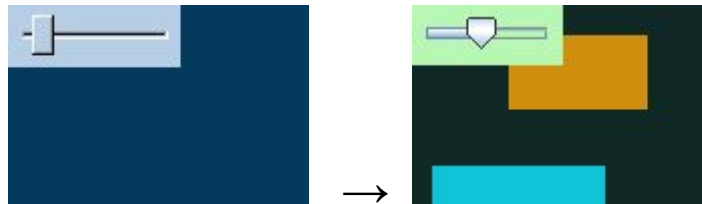
*Example:*



### *c. Noise*

If you need to add on some images of the controls any noise, choose this option;

*Example:*



### *d. Unsorted*

By default, generated images of the controls are saved in the sorted look: every type of controls has a separate folder, which is created in the folder “**sorted**”. If you need that all selected controls are saved in common folder “**unsorted**”, choose this option.

4. Choose the main folder, where images will be saved. The path to this folder will be remembered. If you need to change it, click the button again.
5. If you have chosen all necessary settings, start the generation of images and wait until the field “Waiting...” get green and filled with mark “Successful”.
6. Click on question button to open **User Guide**.