



## Install labelling toolkit

*"Install toolkit to label objects in YOLO format.  
Run and verify functionality."*

### Step 1: Create additional environment

**Windows:** open Anaconda Prompt.

**Mac or Linux:** open terminal window.

All the commands are the same for Windows, Mac and Linux.

Command	Description
<code>conda create --name labelenv python=3.9</code>	Creates additional, separate environment
<code>conda activate labelenv</code>	Activates created environment
<code>conda list</code>	Prints list of packages

## Step 2: Install LabelImg toolkit

**Windows:** open Anaconda Prompt.

**Mac or Linux:** open terminal window.

All the commands are the same for Windows, Mac and Linux.

Command	Description
<code>conda activate labelenv</code>	Activates created environment
<code>conda install -c conda-forge labeling</code>	Installs LabelImg toolkit
<code>conda list</code>	Prints list of packages

## Step 3: Run LabelImg

**Windows:** open Anaconda Prompt.

**Mac or Linux:** open terminal window.

All the commands are the same for Windows, Mac and Linux.

Command	Description
<code>conda activate labelenv</code>	Activates created environment
<code>labelImg</code>	Runs LabelImg toolkit

## Links

*Check out additional links with extra information for further readings:*

- ✓ [LabelImg official repository on GitHub](#)
- ✓ [Install LabelImg by conda](#)
- ✓ [Install LabelImg by pip](#)

## Hot-keys

Ctrl + u	Load all of the images from a directory
Ctrl + r	Change the default annotation target directory
Ctrl + s	Save
Ctrl + d	Copy the current label and rectangle box
Space	Flag the current image as verified
w	Create a rectangle box
d	Next image
a	Previous image
del	Delete the selected rectangle box
Ctrl++	Zoom in
Ctrl--	Zoom out
↑→↓←	Keyboard arrows to move selected rectangle box

## Other installation option for Windows

- ❖ Download and extract ZIP file with *LabelImg* toolkit from [official repository](#) into new folder with name *labelimg* into the disc (C:)
- ❖ Open Anaconda Prompt and go to the labeling directory
- ❖ Run the commands as below

Command	Description
<code>pyrcc5 -o libs/resources.py resources.qrc</code>	Installs LabelImg toolkit
<code>python3 labelImg.py</code>	Runs LabelImg toolkit (option 1)
<code>python labelImg.py</code>	Runs LabelImg toolkit (option 2)

## Other installation option for Mac

- ❖ Open terminal window
- ❖ Run the commands as below

Command	Description
<code>brew install qt</code>	Installs LabelImg toolkit
<code>brew install libxml2</code>	
<code>make qt5py3</code>	
<code>python3 labellmg.py</code>	Runs LabelImg toolkit (option 1)
<code>python labellmg.py</code>	Runs LabelImg toolkit (option 2)

(\*) *Homebrew*. If you don't have Homebrew installed, use following command firstly:

```
/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
```

## Other installation option for Linux

- ❖ Open terminal window
- ❖ Activate your Python v3 environment
- ❖ Run the commands as below

Command	Description
<code>sudo apt-get install pyqt5-dev-tools</code>	Installs LabelImg toolkit
<code>sudo pip install pyqt5==5.10.1</code>	
<code>sudo pip install lxml==4.2.4</code>	
<code>make qt5py3</code>	
<code>python3 labellmg.py</code>	Runs LabelImg toolkit (option 1)
<code>python labellmg.py</code>	Runs LabelImg toolkit (option 2)