# Installation and Set up

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1 Introduction

Here, I explain how to (1) install Python via Anaconda, (2) install PyCharm and configure conda environment, and (3) install two Python libraries which will be used in the course.
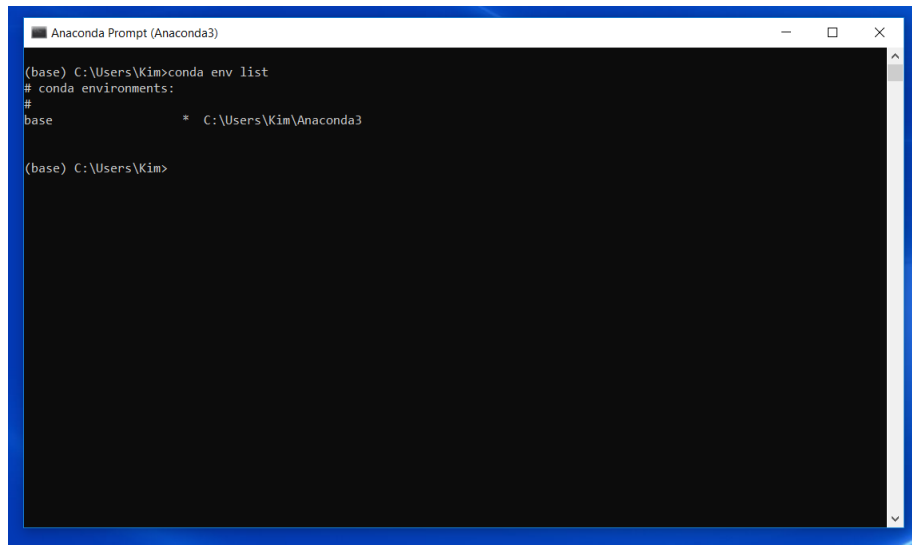
2 Anaconda

There are several ways to install Python, here we use Anaconda.

1. Visit Anaconda: `https://www.anaconda.com/download/`

2. Download and install Python 3.7 version which corresponds to your operating system (e.g., Windows, Mac, or Linux). Follow the installation instructions.
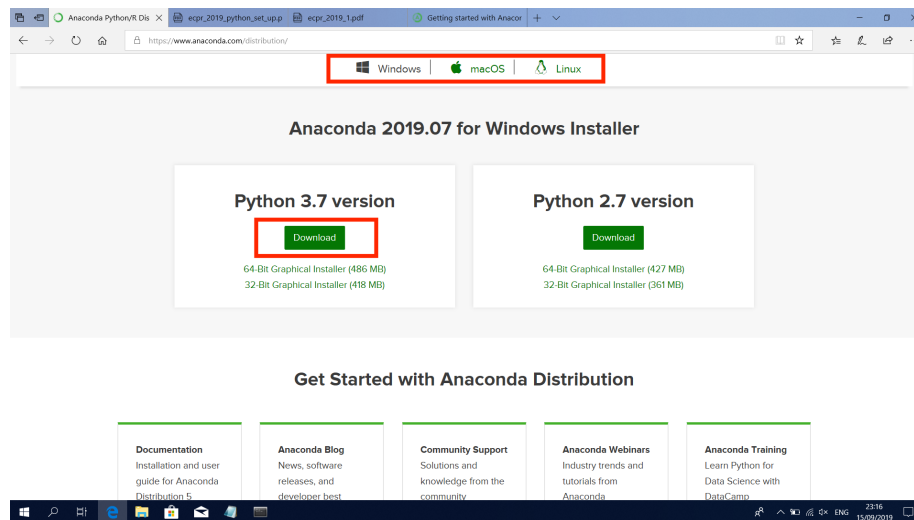
Then, let's check if Anaconda installed successfully. If you are a Mac user, open `Terminal`, if you are a Windows user, open `Anaconda Prompt`. Please

type `conda env list` .[1] It should display your conda environments. At this moment only `base` environment is displayed since you didn't create any new environment. The address, `C:\Users\Kim\Anaconda3` is where the corresponding environment is stored. This information will be used to configure a conda environment at Pycharm. We will get back this point later in the next section.

Anaconda Prompt (Windows example)

3 Pycharm

Installation

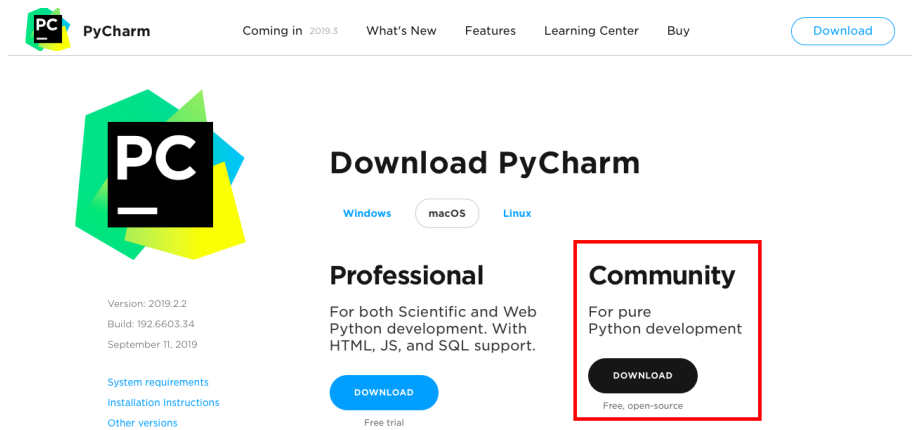In this section, we install PyCharm, one of the most popular editors of Python. Please download and install **Community** version as it is free: `https://www.jetbrains.com/pycharm/download/`. Don't forget to choose the version corresponding your operating system. Follow the installation instruction.

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[1]You can find all the information about conda here: Conda docs

PyCharm

Coming in 2019.3   What's New   Features   Learning Center   Buy   Download

Download PyCharm

Windows   macOS   Linux

Version: 2019.2.2
Build: 192.6603.34
September 11, 2019

System requirements
Installation Instructions
Other versions

Professional

For both Scientific and Web
Python development. With
HTML, JS, and SQL support.

DOWNLOAD

Free trial

Community

For pure
Python development

DOWNLOAD

Free, open-source

Configure a conda environment

Now we create a conda environment at PyCharm.[2] After you finish installation,
open PyCharm and select **Create New Project**.

Welcome to PyCharm

PyCharm

Version 2019.2.2

+ Create New Project

Open
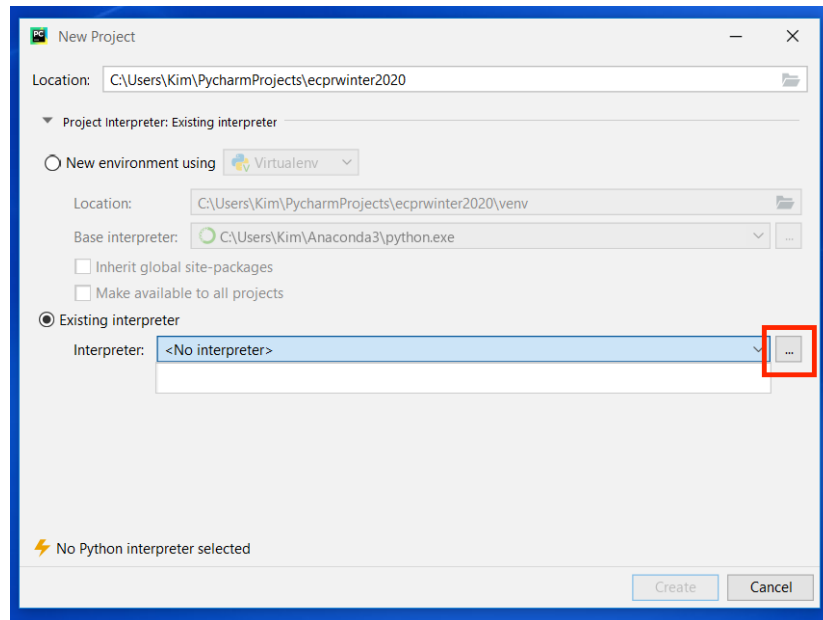
Check out from Version Control

Configure   Get Help

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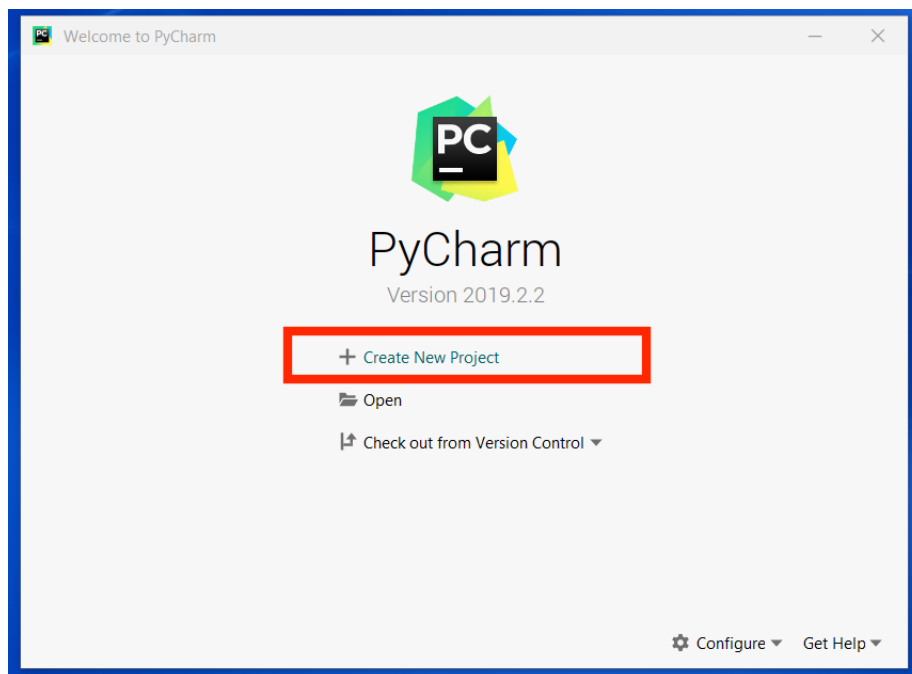
[2]PyCharm webpage explaining how to configure a conda environment: Here

Add project name, in this example **ecprwinter2020**, and click **Project Interpreter: New Virtualenv environment**.
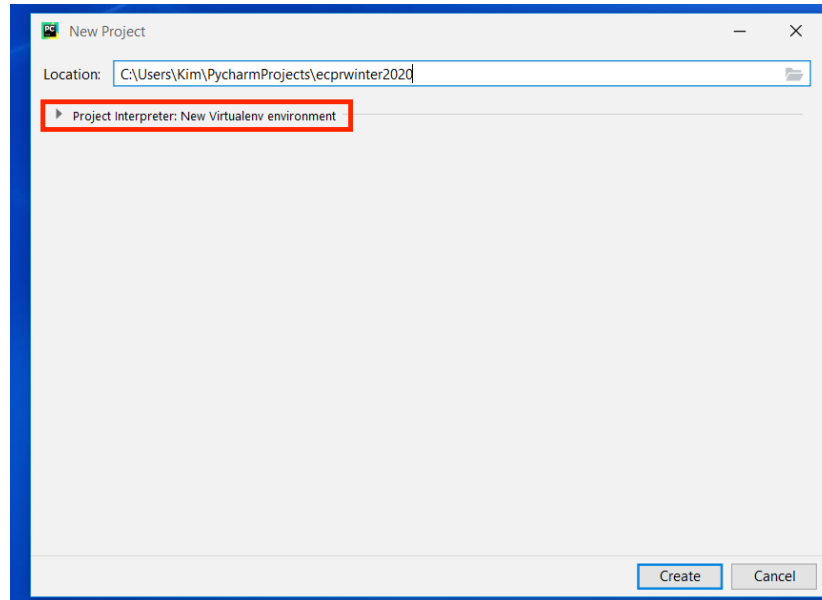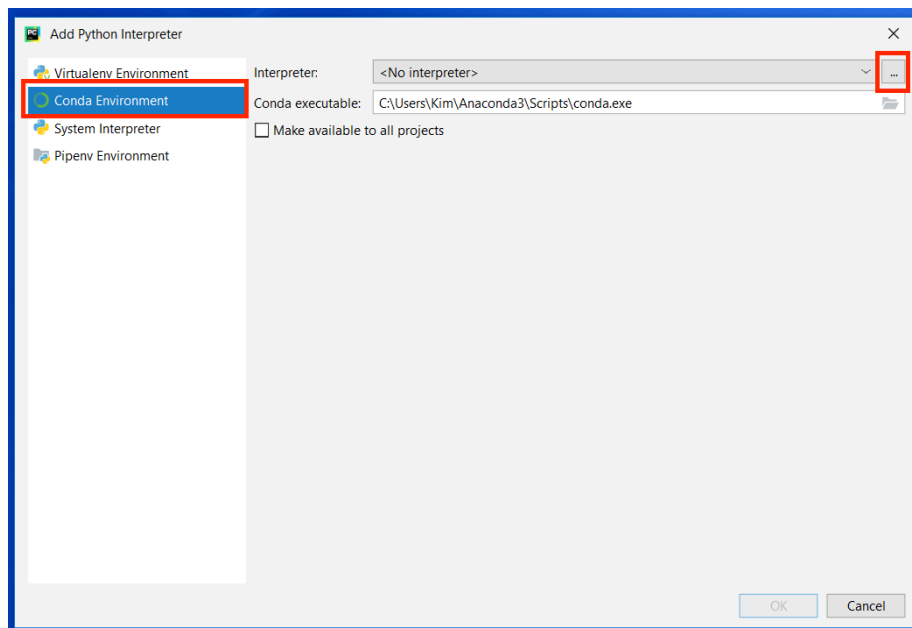

Select **Existing interpreter**, and click the button at right side of the interpreter section.
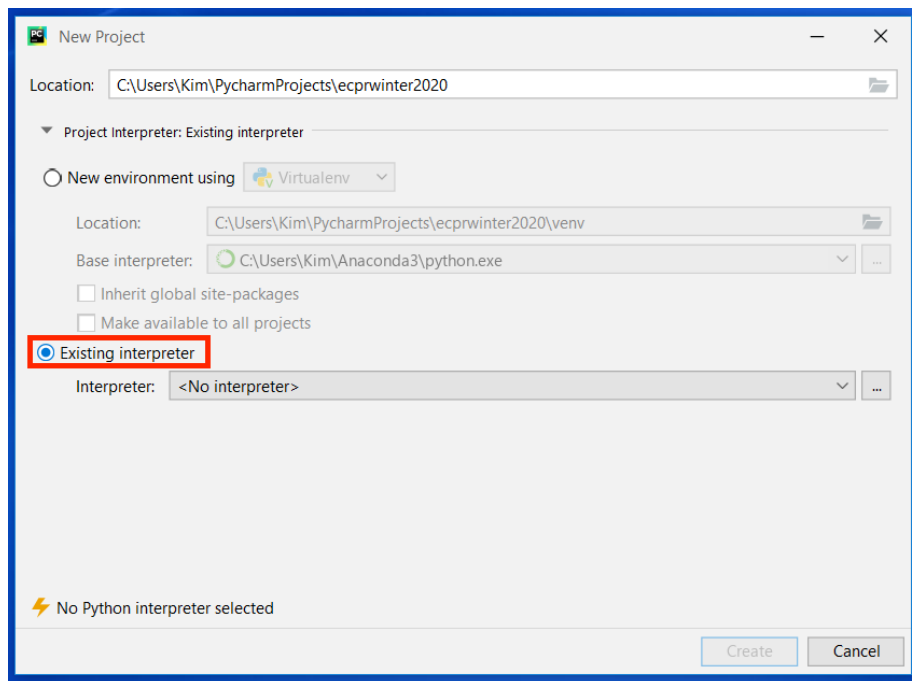
Select **Conda Environment** and click the button at right next to Interpreter section.

Now you have to let PyCharm know where your Python interpreter is. We want to use the one which is stored at an Anaconda environment. In

this example, we use an interpreter of `Base` environment. The address is `C:\Users\Kim\Anaconda3` as we have checked before. Select

`C:\Users\Kim\Anaconda3\python.exe`

to indicate the interpreter of this environment. Select **Make available to all projects** and click **OK**.
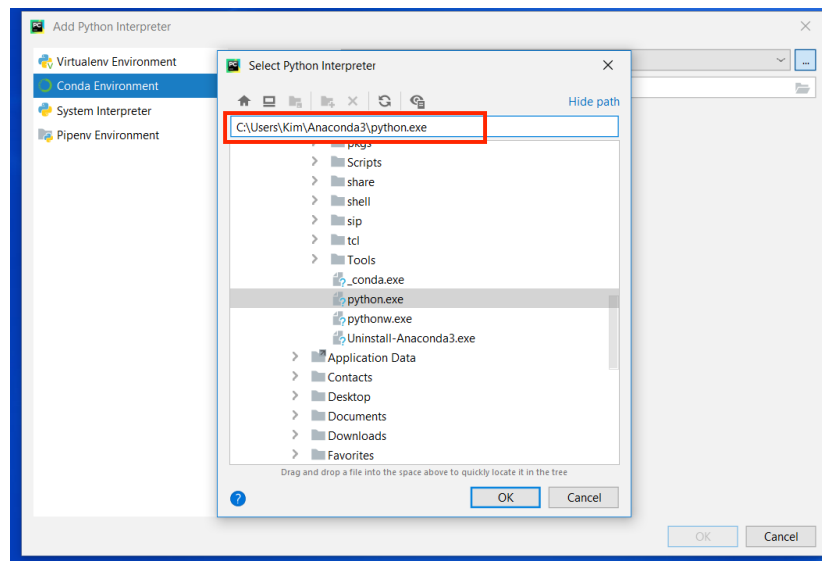
Now you will see the interpreter you have just selected. Click **Create**.
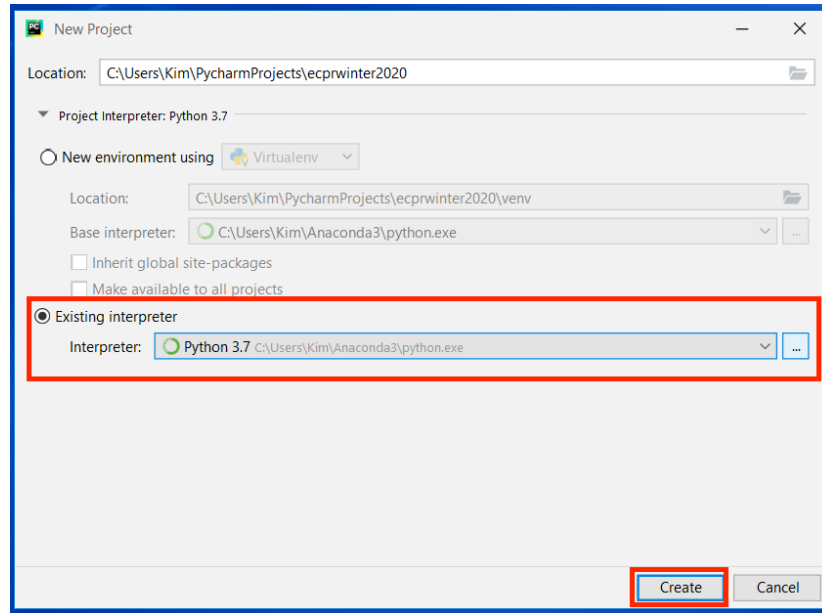
If you see following window, you are successfully finished configuration.

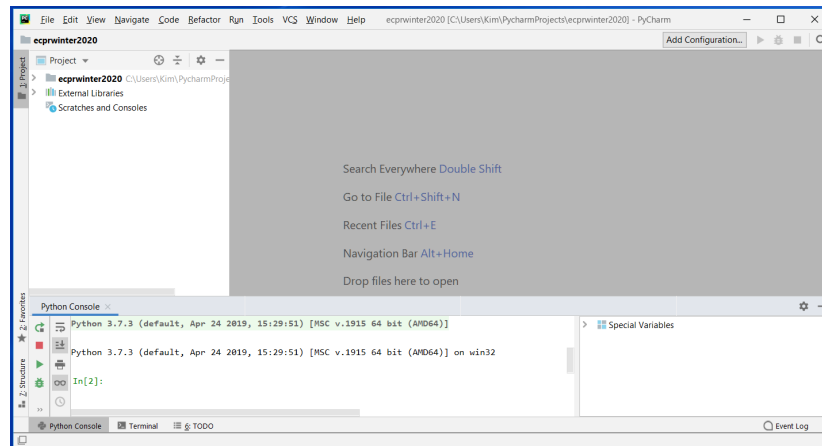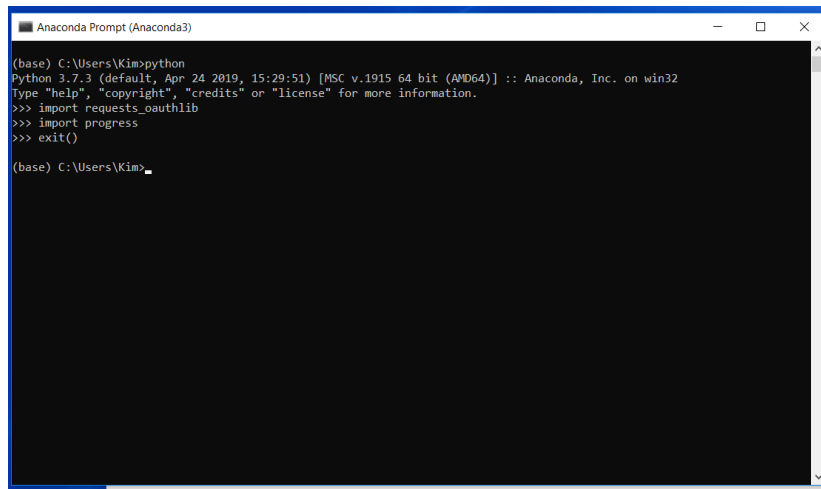# 4 Install Python Libraries

Now let's install two Python libraries, `requests-oauthlib` and `progress`,into the **Base** environment.[3] First, open `Terminal` or `Anaconda Prompt` and type following command.

```
conda install requests-oauthlib progress
```


Now let's check if two libraries are installed successfully by using Python console. Following command execute Python.

```
python
```

Next, type following command.

```
import requests_oauthlib
```
```
import progress
```

If there is no error message, two libraries are installed correctly. Finally, let's check if this change reflected in PyCharm. Open PyCharm project you have just created in the previous section and type following command at **Pychon Console**.

```
import requests_oauthlib
```
```
import progress
```

There should be no error message, if you configured correctly.

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[3]Conda documentation how to manage conda environment: here

File Edit View Navigate Code Refactor Run Tools VCS Window Help   ecprwinter2020 [C:\Users\Kim\PycharmProjects\ecprwinter2020] - PyCharm

ecprwinter2020   Add Configuration...

Project
> ecprwinter2020 C:\Users\Kim\PycharmProj
> External Libraries
  Scratches and Consoles

Search Everywhere Double Shift

Go to File Ctrl+Shift+N

Python Console   Special Variables

```
C:\Users\Kim\Anaconda3\python.exe "C:\Program Files\JetBrains\PyCharm Community Edition 2019.2.2\helpers\pydev\pydevconsole.py" --mode
import sys; print('Python %s on %s' % (sys.version, sys.platform))
sys.path.extend(['C:\\Users\\Kim\\PycharmProjects\\ecprwinter2020', 'C:/Users/Kim/PycharmProjects/ecprwinter2020'])
Python 3.7.3 (default, Apr 24 2019, 15:29:51) [MSC v.1915 64 bit (AMD64)]

Python 3.7.3 (default, Apr 24 2019, 15:29:51) [MSC v.1915 64 bit (AMD64)] on win32
In[2]: print('hello ecpr winter school 2020!')
hello ecpr winter school 2020!
In[3]: import progress
In[4]: import requests_oauthlib

In[5]:
```

Python Console   Terminal   TODO   Event Log

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