

How to install Python and libraries required to use RTphitsGUI

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1 Windows

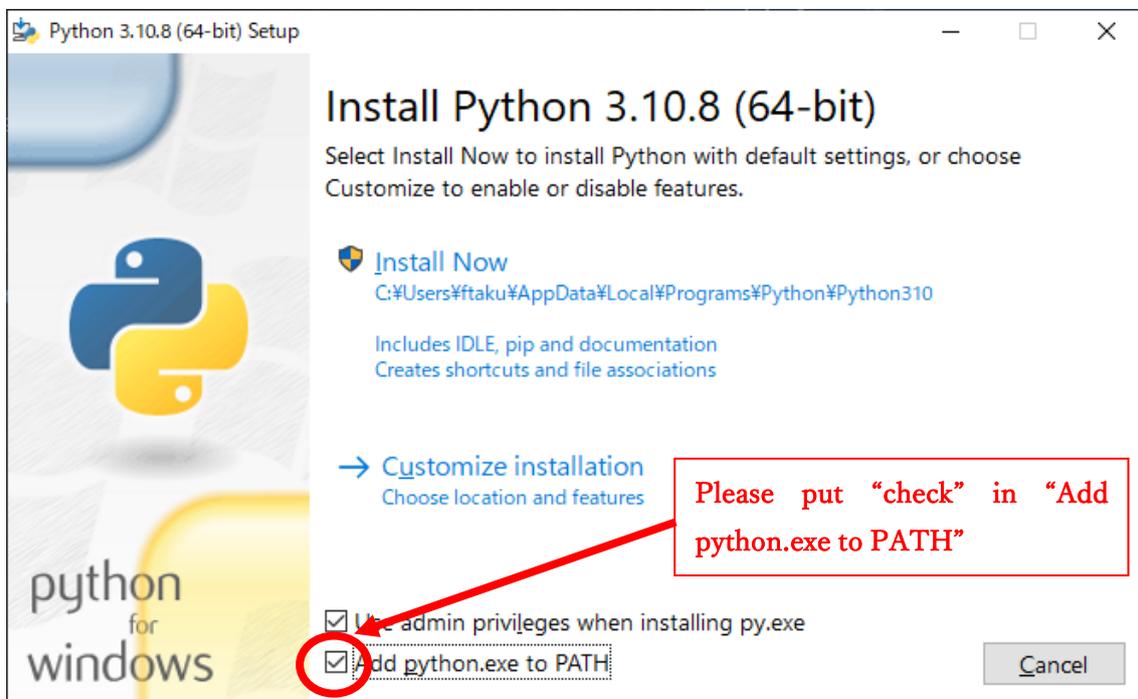
Python installation is NOT required most of Windows users. It is only required when the attached executable (RTphitsGUI.exe) is not compatible.

1.1 Installation of Python

Download the latest version of Python (version later than 3.0) from the following site

<https://www.python.org/>

Install Python using the downloaded installer.



1.2 Installation of pip, the Python package installer

Open “command prompt” or “Windows PowerShell” and type the following command

```
py -m ensurepip --upgrade
```

1.3 Installation of python libraries

Type the following commands to install the required python libraries

```
py -m pip install pydicom
```

```
py -m pip install matplotlib
```

```
py -m pip install numpy
```

2 Mac

2.1 Confirm the installation of Python

Open terminal and type the following command to check the existence of Python

```
python --version
```

If it shows the version of Python, Python is already installed in your computer.

Please make sure the version is later than 3.0.

If Python is not installed in your computer or the version is too old, please install the latest version of Python to your computer. Please find a way to install Python to your computer by searching with the key words “Mac Python installation”.

2.2 Installation of pip, the Python package installer

Type the following command to install pip

```
python -m ensurepip --upgrade
```

2.3 Installation of python libraries

Type the following commands to install the required python libraries

```
pip install pydicom
```

```
pip install matplotlib
```

```
pip install numpy
```

3 Linux

3.1 Confirm the installation of Python

Open terminal and type the following command to check the existence of Python

```
python --version
```

If it shows the version of Python, Python is already installed in your computer.

Please make sure the version is later than 3.0.

If Python is not installed in your computer or the version is too old, please install the latest version of Python to your computer. Please find a way to install Python to your computer by searching with the key words “Python installation” with your distribution.

You may be also required to install other python packages such as python3-tk, python3-pil, python3-pil.imageTk, to use RTphitsGUI. Please install them if it is needed.

3.2 Installation of pip, the Python package installer

Type the following command to install pip

```
python -m ensurepip --upgrade
```

3.3 Installation of python libraries

Type the following commands to install the required python libraries

```
pip install pydicom
```

```
pip install matplotlib
```

```
pip install numpy
```