 eLEAF-Github / **WAPORACT**   (Public)

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1. Introduction 4. WaporAct Install Instructions

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eLEAF-ops edited this page 6 minutes ago · 15 revisions

# some advice before we start:

- Do not use ' ' (spaces) in file paths/names

- Often in code and specifically in tutorials you may see the following: *<insert_path_here>*. If you see text surrounded by the following markings: <>. It means that you are meant to replace it with your own input (including the <>) so *<insert_path_here>* could become *c:/git /waporact*.

Install Instructions:

1. download and install WaPORAct git repository (you may already have done this if you are seeing this from the file)

    1.1 go to https://github.com/eLEAF-Github/WAPORACT

    1.2 download the package as a zip by first clicking on the code button and then secondly clicking on the download as zip button
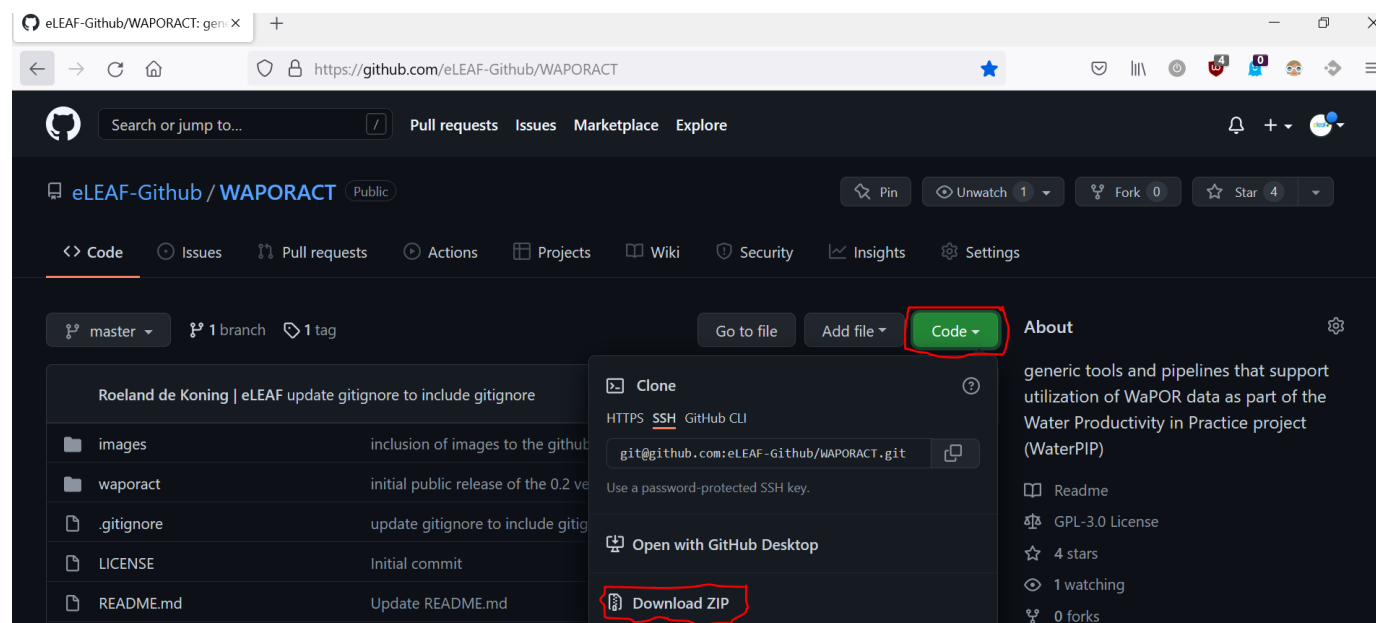
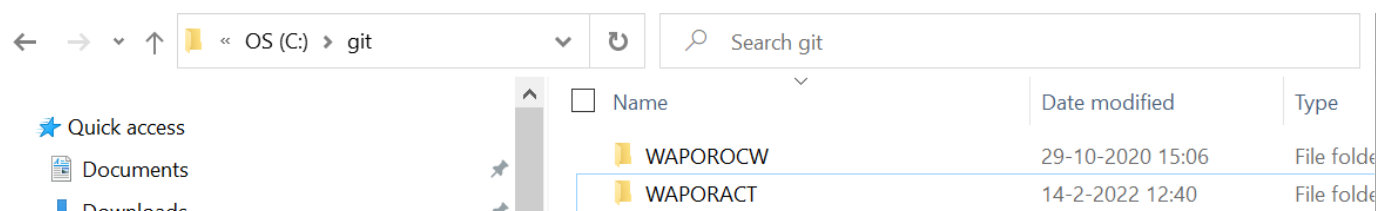

1.3 create or choose a folder to house the downloaded package.

    My recommendation is to create a folder in the c drive: c:\git

1.4 move the waporact-master.zip folder to your chosen folder: *c:/git*

1.5 extract the zip there

1.6 rename waporact-master to waporact. with the end result:

NOTE: Make sure the chosen location has no spaces in the file name path. ' ' (spaces) are a NO (frowned upon) in coding so do not use a path such as "C:\Program Files" if possible. My recommendation is to create a folder git in *c:* called **git**. It is a short simple path and easy to use. I would place all the git repositories that you clone or download there. But that is just a recommendation. for more details on the 'git' mechanism in general there are multiple guides available like this one: https://www.freecodecamp.org/news/what-is-git-and-how-to-use-it-c341b049ae61/
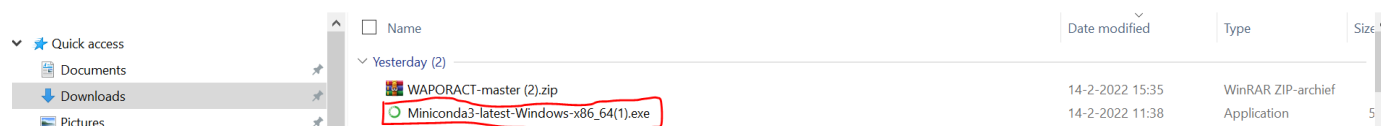
2. install miniconda3 / anaconda

NOTE: We recommend you install miniconda3 as it takes up less room then anaconda. However depending on your computer you may not be able to install miniconda3. it requires windows 8 or newer. In that case you can install Anaconda instead. If you still have difficulties I recommend installing linux ubuntu on your computer and installing conda via that way.

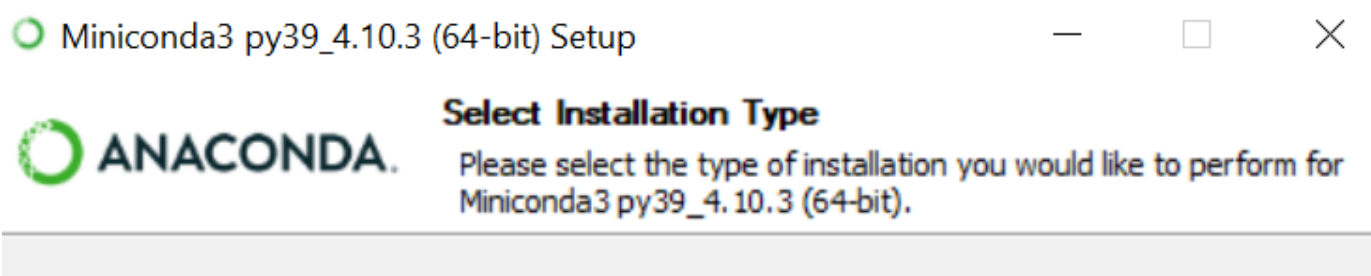In this guide we will only explain how to install Miniconda3.

2.1 Download Miniconda from the site: miniconda url: https://docs.conda.io/en/latest/miniconda.html. Choose the version suitable for your computer.

2.2 Run the file downloaded


```
2.3 During installation select the following:

    2.3.1 install for all users
```

Install for:

○ Just Me (recommended)

◉ All Users (requires admin privileges)

Anaconda, Inc. ——

< Back   🛡Next >   Cancel
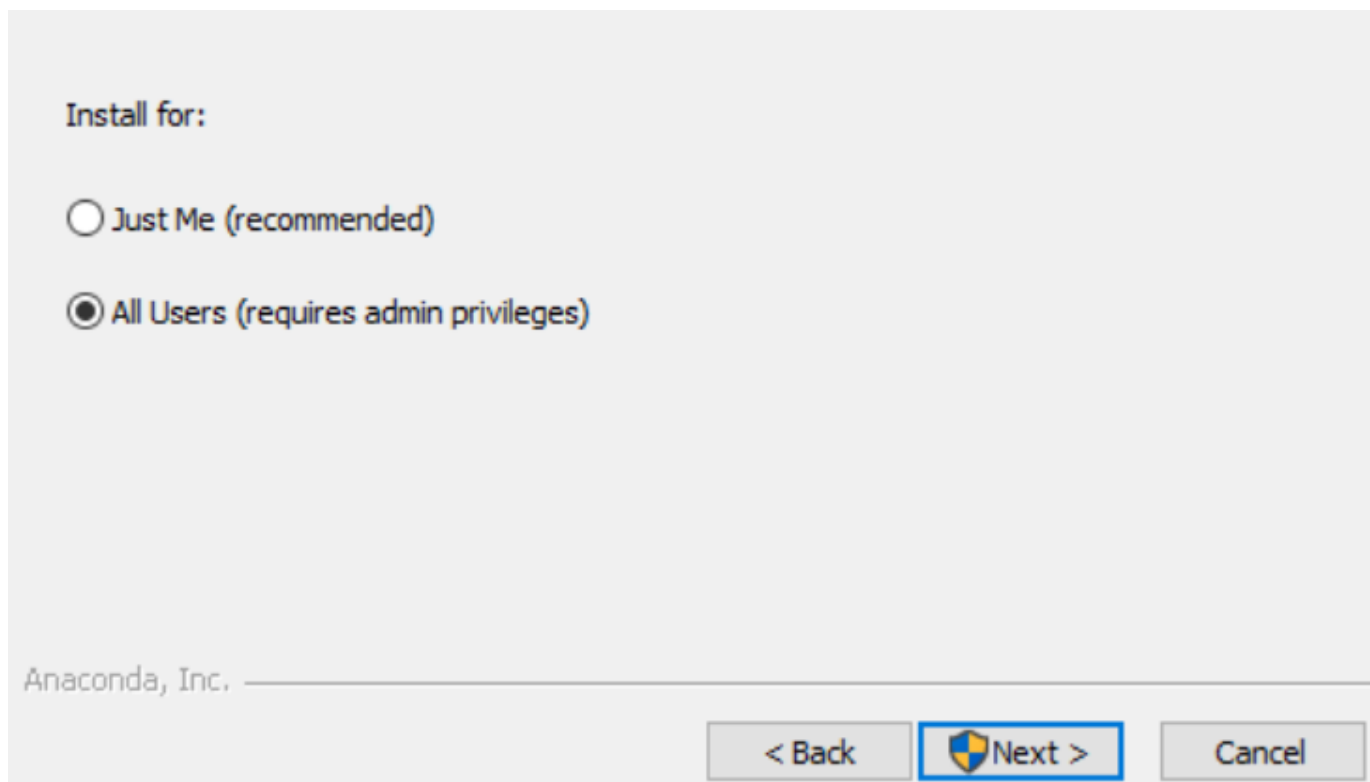
2.3.2 install to the folder *c:/Miniconda3*

○ Miniconda3 py39_4.10.3 (64-bit) Setup   —   □   ×

⬤ ANACONDA.   **Choose Install Location**
                 Choose the folder in which to install Miniconda3 py39_4.10.3
                 (64-bit).

Setup will install Miniconda3 py39_4.10.3 (64-bit) in the following folder. To install in a
different folder, click Browse and select another folder. Click Next to continue.

Destination Folder

C:\Miniconda3   Browse...

Space required: 263.4MB
Space available: 344.6GB

Anaconda, Inc. ——

```
                2.3.3 at the advanced options screen choose the following:
```

○ Miniconda3 py39_4.10.3 (64-bit) Setup   —   □   ✕

○ **ANACONDA.**

Advanced Installation Options

Customize how Anaconda integrates with Windows

Advanced Options

☐ Add Miniconda3 to the system PATH environment variable

Not recommended. Instead, open Miniconda3 with the Windows Start
menu and select "Anaconda (64-bit)". This "add to PATH" option makes
Anaconda get found before previously installed software, but may
cause problems requiring you to uninstall and reinstall Anaconda.

☑ Register Miniconda3 as the system Python 3.9

This will allow other programs, such as Python Tools for Visual Studio
PyCharm, Wing IDE, PyDev, and MSI binary packages, to automatically
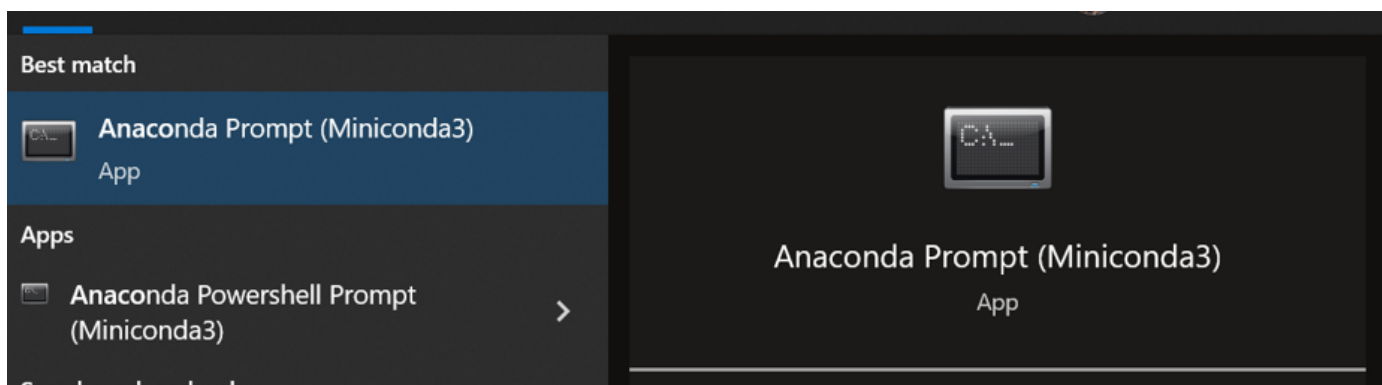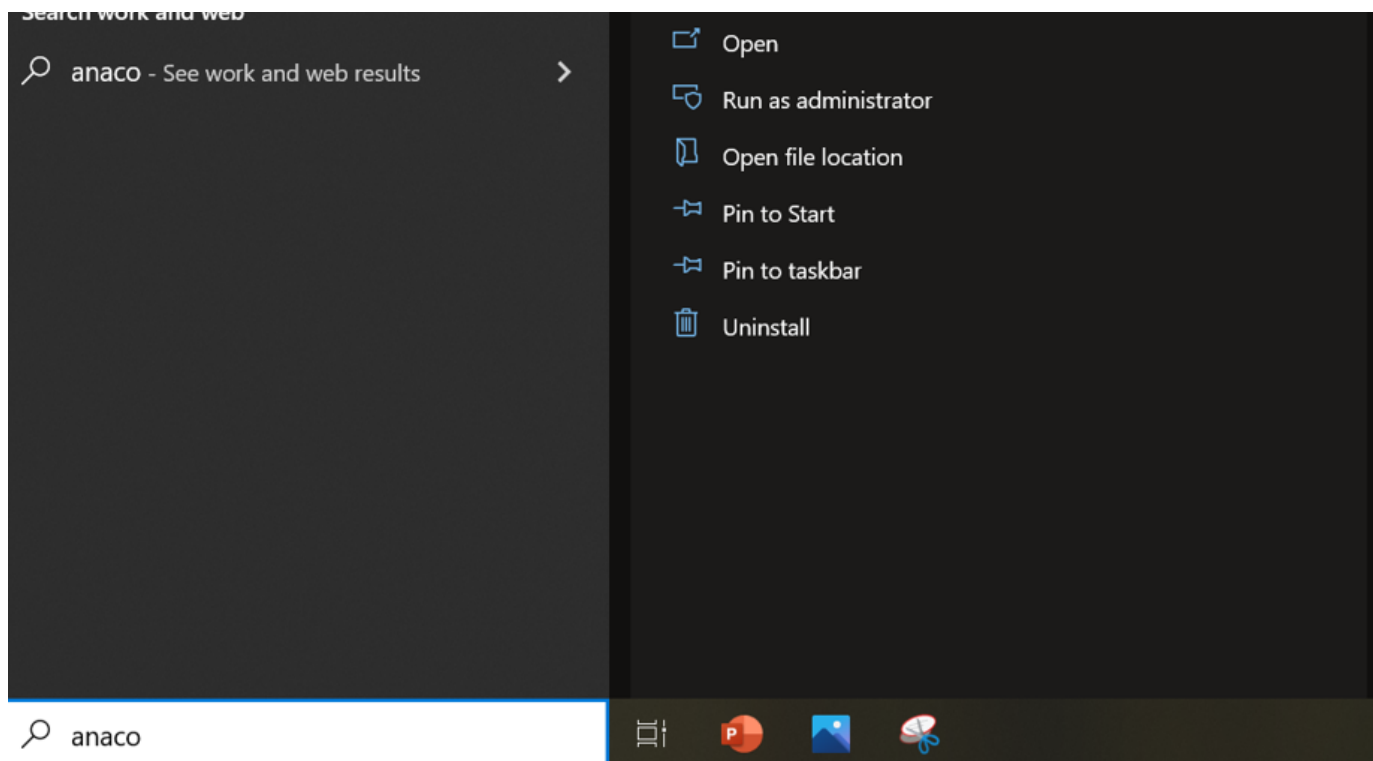detect Anaconda as the primary Python 3.9 on the system.

Anaconda, Inc. ───

                                    < Back   Install   Cancel

3. install environment and WaPOR package dependencies

3.1 In the window search bar navigate to anaconda prompt and run it

Best match

▣ **Anaconda Prompt (Miniconda3)**
   App

Apps

▣ **Anaconda Powershell Prompt**   >
   (Miniconda3)

Search work and web

                                    Anaconda Prompt (Miniconda3)
                                    App

3.2 navigate to the waporact folder downloaded

>>> cd c:/git/waporact

3.3 create the package and install the package dependencies by running the file
waporact_install.txt in anaconda prompt using the following code:

>>> conda create --name waporact --file waporact_env_install.txt

3.4 activate the created environment in anaconda prompt:

>>> conda activate waporact

4. install the waporact package

4.1 The actual package gets installed using the setup.py file in the waporact folder. You do
this by running the following code in anaconda prompt:

❚ ❚ ❚   pip install .

5. check the package works

NOTE: To check the package works you can try run one of the tutorial notebooks. but you
can also try import the package in python.

5.1 activate python in anaconda prompt

▌ ▌ ▌　python

5.2 import part of the package in python and check the result matches the image below
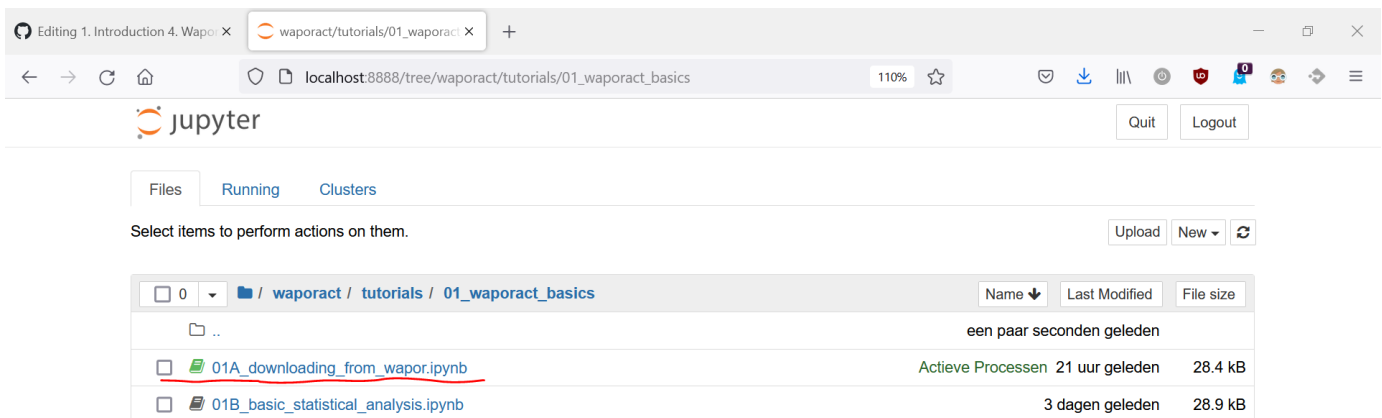
▌ ▌ ▌　import waporact

```
(waporact) c:\git\WAPORACT>python
Python 3.10.2 | packaged by conda-forge | (main, Feb  1 2022, 19:26:10) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import waporact
>>>
```

6. Activate jupyter and get started on the tutorials

6.1 run the code in anaconda prompt below (while being in the waporact folder)

▌ ▌ ▌　jupyter notebook

6.2 navigate in the jupyter interface to the 01A_downloading_from_wapor.ipynb file and activate it

6.3 You are done with the installation and at the starting point of the tutorials. Well done !

＋ Add a custom footer

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```