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# 1. Introduction 4. WaporAct Install Instructions

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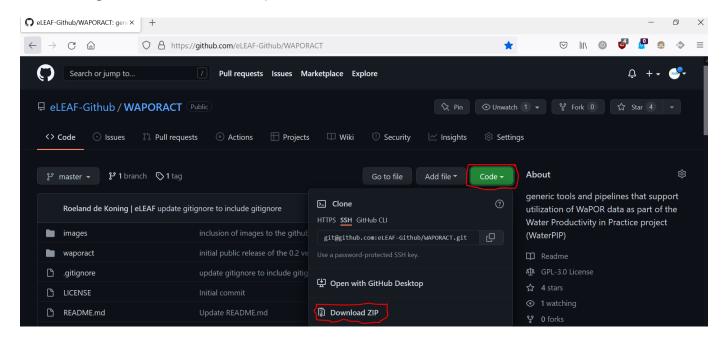
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# some IMPORTANT advice before we start:

- 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.
- when running the code below ignore the <<< part</li>
- tutorials in this package are run using jupyter notebooks. The jupyter package is installed during the setup of the environment below. For more details on jupyter see: https://jupyter.org/

# **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

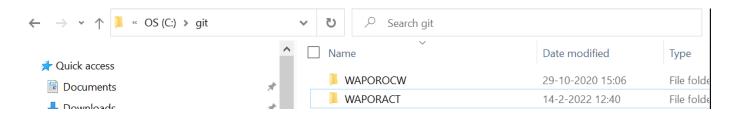


1.3 create or choose a folder to house the downloaded package.

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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



<pre>2.3 During installation select the following: 2.3.1 install for all users</pre>				
Miniconda3 py39_4.10.3	(64-bit) Setup	_		×
ANACONDA.	Select Installation Type  Please select the type of installation you would like to perform for Miniconda3 py39_4.10.3 (64-bit).		m for	
Install for:				
Just Me (recommended)      All Users (requires admin privileges)				

2.3.2 install to the folder \*c:/Miniconda3\*

Miniconda3 py39\_4.10.3 (64-bit) Setup



Anaconda, Inc.

### Choose Install Location

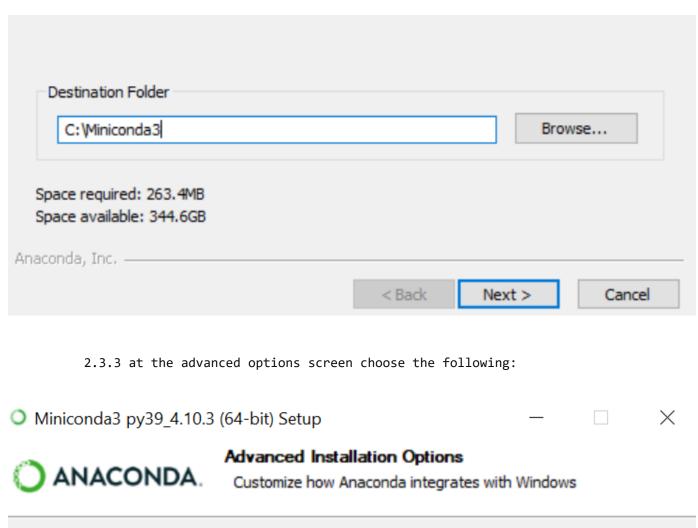
Choose the folder in which to install Miniconda3 py39\_4.10.3 (64-bit).

< Back

⊕Next >

Cancel

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.



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.

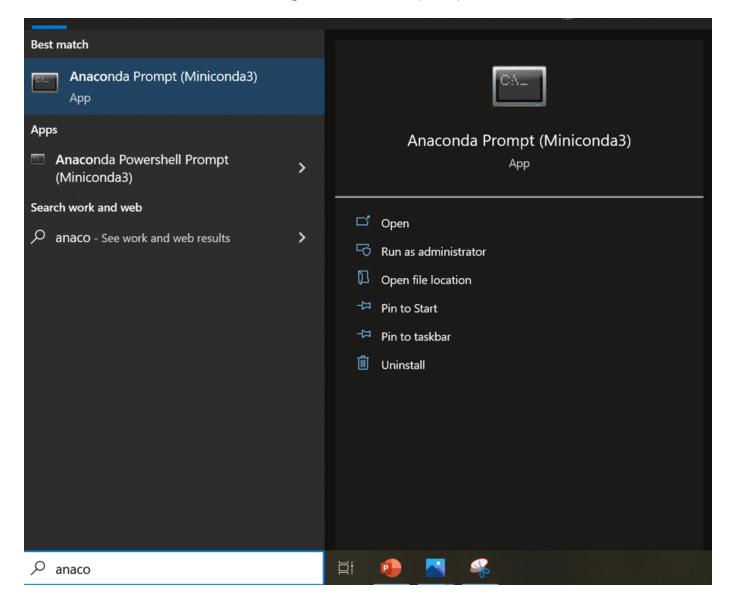
Anaconda, Inc.

Anaconda, Inc.

3 install environment and WaPOR package dependencies

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



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
>>>
```

- 5.3 to exit python type \*ctrl + Z\* in the cmdline console and then press \*enter\* to exit python and return to the cmd line
- 6. Activate jupyter notebook and get started on the tutorials
  - 6.1 return to the waporact folder if not already there:

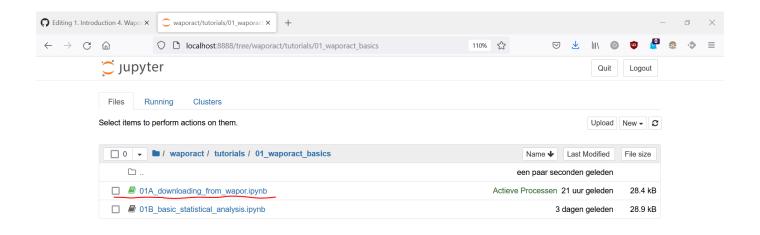
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cd c:/git/waporact

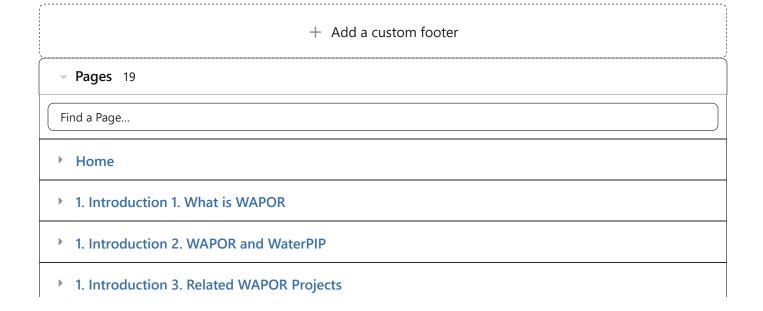
6.2 run the code in anaconda prompt below (while being in the waporact folder)

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!



<ul><li>2. The WaPORAct Package 3. Function and Class Descriptions</li></ul>
2. The WaPORAct Package 3. Function and Class Descriptions 1. retrieval
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## Clone this wiki locally

https://github.com/eLEAF-Github/WAPORACT.wiki.git

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