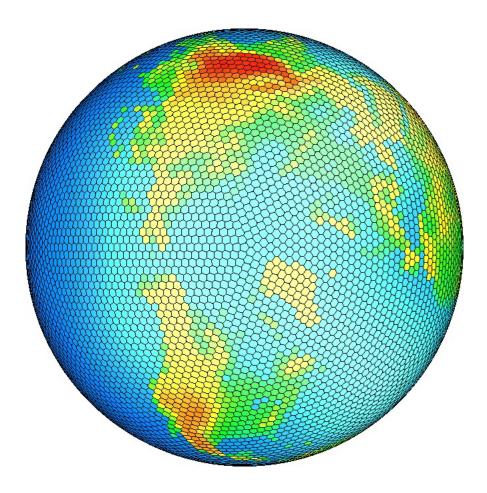
pydggrid Documentation

Release 0.0.1

Majid Hojati

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CHAPTER 1

PyDGGRID Installation

Note: this library needs 'Boost' library for compile. so make sure you have installed boost C++ library before installing. The first thing many people want to know is, "how do I build Boost?" The good news is that often, there's nothing to build. To install boost follow these steps.

1.1 Install on Linux

- Install boost on linux
- ` \$ sudo apt install libboost-dev \$ sudo apt install libboost-all-dev `
 - Set boost_dir environment variable

After installing boost; set boost_dir variable in terminal/command prompt windows.

expot boost_dir=/home/usr/include/boost/

• Install PyDGGRID from pip

Then simply use pip to install this library

pip install pydggrid

1.2 Install on Windows

· Install boost

Download latest version of boost from following link

https://www.boost.org/users/download/

then extract it in a folder. and it is done. After installing boost;

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• Set *boost_dir* variable

set "boost_dir=C:/Boost/include/"

Then simply use pip to install this library

pip install pydggrid

Build PyDGGRID From Source

To Build PyDGGRID from source follow these steps:

2.1 Installation

Note: The main *DGGRID* library needs 'GDAL' library to compile. so make sure you have installed GDAL C++ library before installing. To installing GDAL on linux is pretty straightforward. For windows you can use *vcpkg* to compile and install it. The process of installing and using *vcpkg* on windows can be found on its github (https://github.com/microsoft/vcpkg/)

- Install GDAL on linux
- "" sudo add-apt-repository ppa:ubuntugis/ppa && sudo apt-get update sudo apt-get update sudo apt-get install gdal-bin sudo apt-get install libgdal-dev

"

· Install GDAL on windows

Prerequisites

 $\grave{}$ Windows 10, 8.1, 7, Linux, or MacOS Visual Studio 2015 Update 3 or newer (on Windows) Git $\grave{}$

To get started: "' > git clone https://github.com/Microsoft/vcpkg.git > cd vcpkg

PS>.bootstrap-vcpkg.bat "" then

`PS>.\vcpkg integrate install `Install GDAL packages with `PS>.\vcpkg install gdal:x64-windows shapelib::x64-windows `NOTE: The GDAL version **must** match with your python compiled version. So if you have a x86 python use vcpkg install gdal:x86-windows, othewise use vcpkg install gdal:x86-windows

Then simply use pip to install this library

pip install pydggrid

2.2 Build From source

On Unix (Linux, OS X)

- install GDAL, shapelib
- · clone this repository
- pip install ./pydggrid

or you can easily call

• python setup.py install

On Windows

- You need Build Tools for Visual Studio to be able to compile it from source. so Install it from this link https://visualstudio.microsoft.com/downloads/
- install GDAL, shapelib
- clone this repository
- pip install ./pydggrid

or you can easily call

• python setup.py install

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PyDGGRID API

After installing PyDGGRID you can use it in your python application. Here you can find API for the functions.

CHAPTER 4

Release History

If you'd like to stay up to date on the community and development of Requests, there are several options:

4.1 GitHub

The best way to track the development of Requests is through the the GitHub repo.

4.2 Twitter

The author often tweets about new features and releases of Requests.

Follow @Majid for updates.

4.3 Release History

4.4 dev

Bugfixes

• [Short description of non-trivial change.]

4.5 0.0.16

- DGGRID is updated to version 7.3
- · Some bugs fixed
- Richard Barnes's dglib class is decomposed in order to upgrade DGGRID

4.6 0.0.15

- Not released
- DGGRID is updated to version 7.1 (https://github.com/sahrk/DGGRID)
- Removed Boost Geometry support to use GDAL support since main DGGRID library started to use GDAL library
- Added VCPKG support for windows version
- Cleaned up setup process

4.7 0.0.13 (2019-05-15)

- first release
- Support DGGRID 4.6
- Added CI
- Added tests