

Geoinformatics Shout-Out

```
>>> var = "hello DEVELOP"  
>>> print var  
hello DEVELOP  
>>> var = "We are the Geoinformatics Team!"  
>>> print var  
We are the Geoinformatics Team!  
>>>|
```

Overview >>>

>>> DEVELOPedia

>>> Training Resources/Online Help

>>> Software Release

>>> dnppy / GEE / ArcGIS Earth

DEVELOPedia

>>> DEVELOPedia → Support →
Geoinformatics

- Contact Information
- Software Release
- The DEVELOP National Program
Python Package → dnppy

>>>

DEVELOPEDIA

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2016 Geoinformatics Team

Kimberly @Wise		Online Office Hours M, W, F 3:00-4:00 pm EST
Brittany @JPL		Online Office Hours T, TH, 3:00-5:00 pm EST

Contact Us

DEVELOP.Geoinformatics@gmail.com

Geoinformatics Management

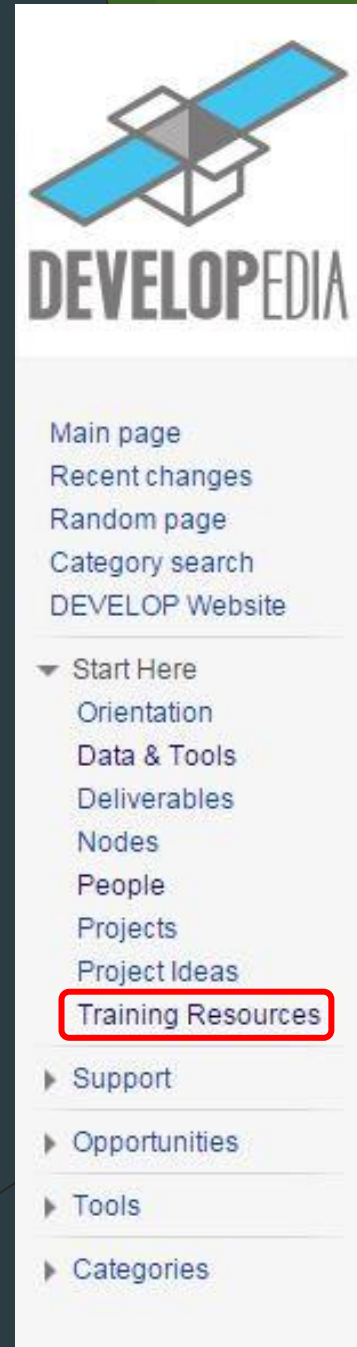
Dr. Ross | National Science Advisor
Mike Bender | National Technical Lead
Jeff Ely | Geoinformation Scientist

DEVELOPedia

>>> Start Here → Training Resources

- Seminars
 - NASA's Applied Remote Sensing Tutorials (ARSET)
 - MetEd
 - W3Schools
- Programing Classes, Tutorials, and Help
 - Python, JavaScript, HTML, CSS, SQL, XML, R, Matlab
- Geospatial software help
- Tutorials available Terrset, ERDAS, ArcGIS, and ENVI

>>>



Online Office Hours

Geoinformatics Open Door - Telecon Line

- Wednesdays at 3 pm (EST) 2 pm (CT) 1 pm (MT) 12 (PT)

Kimberly

- M, W, F 3:00-4:00 (EST)

Brittany

- T, Th 3:00-4:00 (EST)

DEVELOP.Geoinformatics@gmail.com



Software Release

```
>>> def Software_Release(Your_Project):  
    if Requirements == "completed":  
        Handoff = "success"  
    else:  
        emotion = "sadness"
```

Timeline/Workflow

>>> Complete the last section of the project summary to the best of their ability when submitting a RD by **Week 3** (Feb 11).

>>> project teams can work with Mike Bender and the Geoinformatics team to finalized the required information for software release.

>>> All software release information should be updated by the submission of the project summary FD - **Week 7** (March 10)

>>> By **week 10**, provide all code, documentation, tutorials, and a final draft of the software release form in a zip file.

>>> Once the software release process is complete, the code will be posted on the NASA DEVELOP GitHub site

Software Release

>>> Who needs to be involved?

- Projects who release software
- Center leads for these Projects
- Geoinformatics Team
- National Program Office (Mike Bender)

>>> What resources are available?

- Step by Step guide
- Easy access to blank forms
- Completed examples

Software Release:

>>> Pointers

- Start early!
- Do not promise your end-user(s) a quick release after the term.

This process is lengthy and may takes awhile to get through the patent office.

Category	Description	[Collapse]
N/A (not applicable)	Project goals do not include or require programming to meet objectives. Project team has no plans to perform any kind of coding.	
Category I	Project creates simple, practical scripts with very limited re-usability. The code is created for internal use of the team.	
Category II	Project uses non-generalized scripts to perform their analysis by making calls to existing code repositories on DEVELOP's GitHub website (i.e. dnp.py). The code is intended to be provided to the partner or made available to future DEVELOP teams.	
Category III	Project uses non-generalized scripts to perform their analysis by making calls to existing code repositories other than those from DEVELOP's GitHub site. The code is intended to be provided to the partner or other entity not funded by NASA.	
Category IV	The Project goals are clearly defined to include creation of a new, standalone software tool.	
Category V	These projects seek to expand the functionality of existing DEVELOP repositories that have already received open-source software release. Teams are allowed to continue development in the public domain.	

DEVELOP National Program Python Package (dnppy)

```
>>> def dnppy():  
    values = ["Capacity Building", "Outreach"]
```

About [dnppy]

>>> A python package, a collection of functions and classes that are useful for manipulation and analysis of geospatial data and NASA satellite data products

>>> A development environment modifier to help the users quickly gain access to a large host of third party libraries

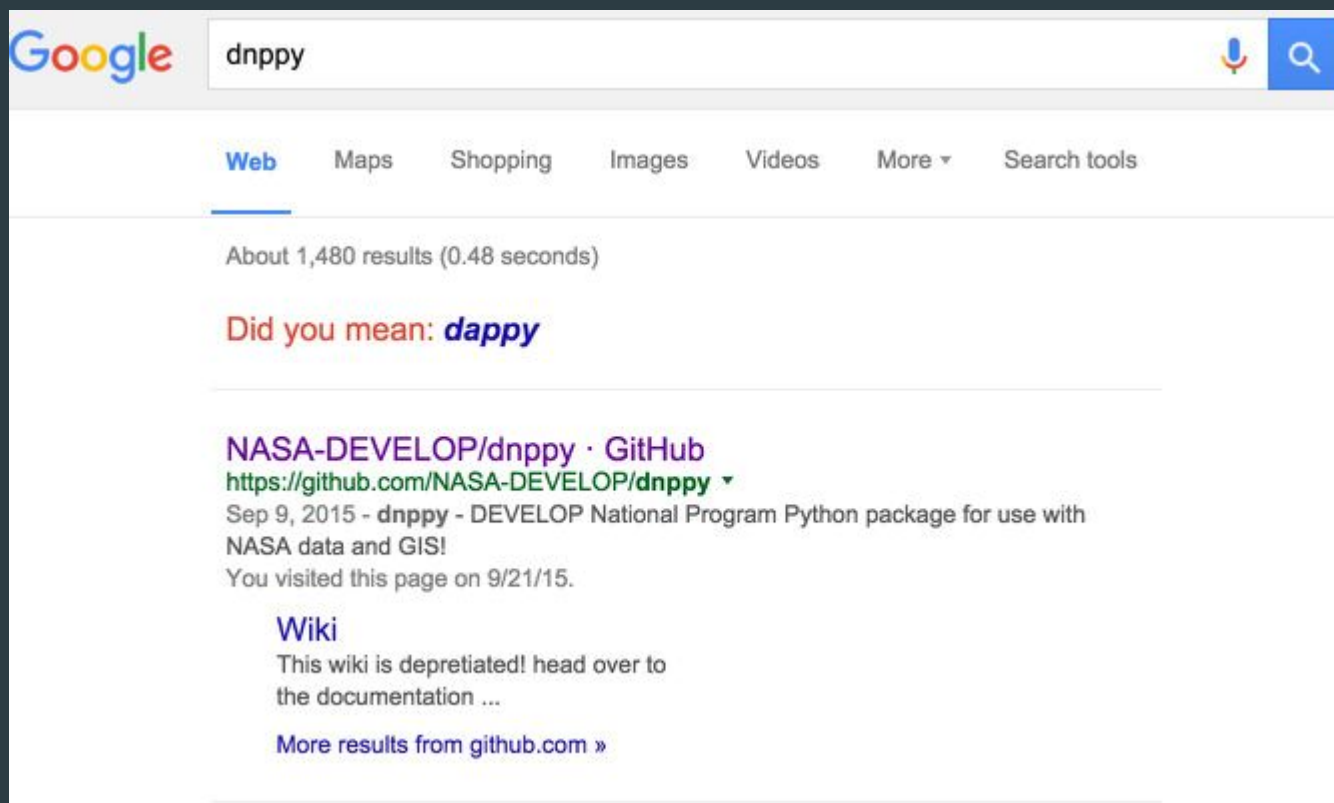
>>> A method for distributing DEVELOP project code that complies with NASA Software Release

Managed from GitHub at <https://github.com/NASA-DEVELOP/dnppy>

Continuously updated documentation pages with much more info at <https://nasa-develop.github.io/dnppy/>

>>> Access to [dnppy]

- Extremely easy to find
- GitHub account is **not** required to download and use
- Installs itself and a host of python libraries without admin elevation



<<< This is us!

NASA-DEVELOP / dnppy

Watch 17

★ Star 10

🍴 Fork 6

DEVELOP National Program Python package for use with NASA data and GIS!
<https://nasa-develop.github.io/dnppy/>

619 commits

7 branches

2 releases

6 contributors



Branch: master

dnppy / +



docs: radar module passes sphinx build.

Jwely authored 19 minutes ago

latest commit 1b6be13541

dev	docs: MODIS style guide and docstring updates	5 days ago
dnppy	docs: radar module passes sphinx build.	19 minutes ago
docs/source	docs: radar module passes sphinx build.	19 minutes ago
undeployed	conflict resolve. update dev branch.	4 days ago
.gitignore	attempting switch to setuptools install	2 days ago
.travis.yml	travis-sphinx tool is now on pip	4 days ago
LICENSE.md	fixed formatting in lisencc md file	a month ago
README.md	Update README.md	3 days ago
install_dependencies.py	attempting switch to setuptools install	2 days ago
setup.py	docs: radar module passes sphinx build.	19 minutes ago

<> Code

Issues 13

Pull requests 0

Wiki

Pulse

Graphs

HTTPS clone URL

<https://github.com/>

You can clone with HTTPS or Subversion.

Clone in Desktop

Download ZIP

Get Help

Stats

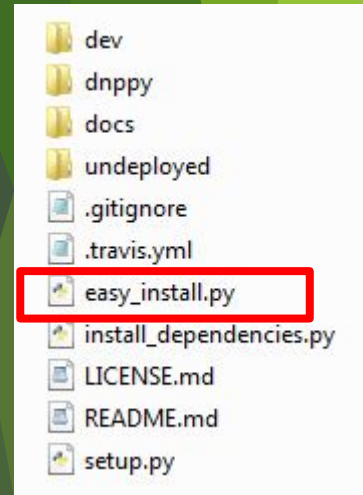
Download

>>> Installation

> Grab the master branch from our GitHub by clicking the "Download ZIP" button in the bottom right*

> Extract the contents then run "easy_install.py" by double clicking, or opening and executing in your preferred python interpreter

Click here



> If installation succeeds, you should delete this downloaded folder

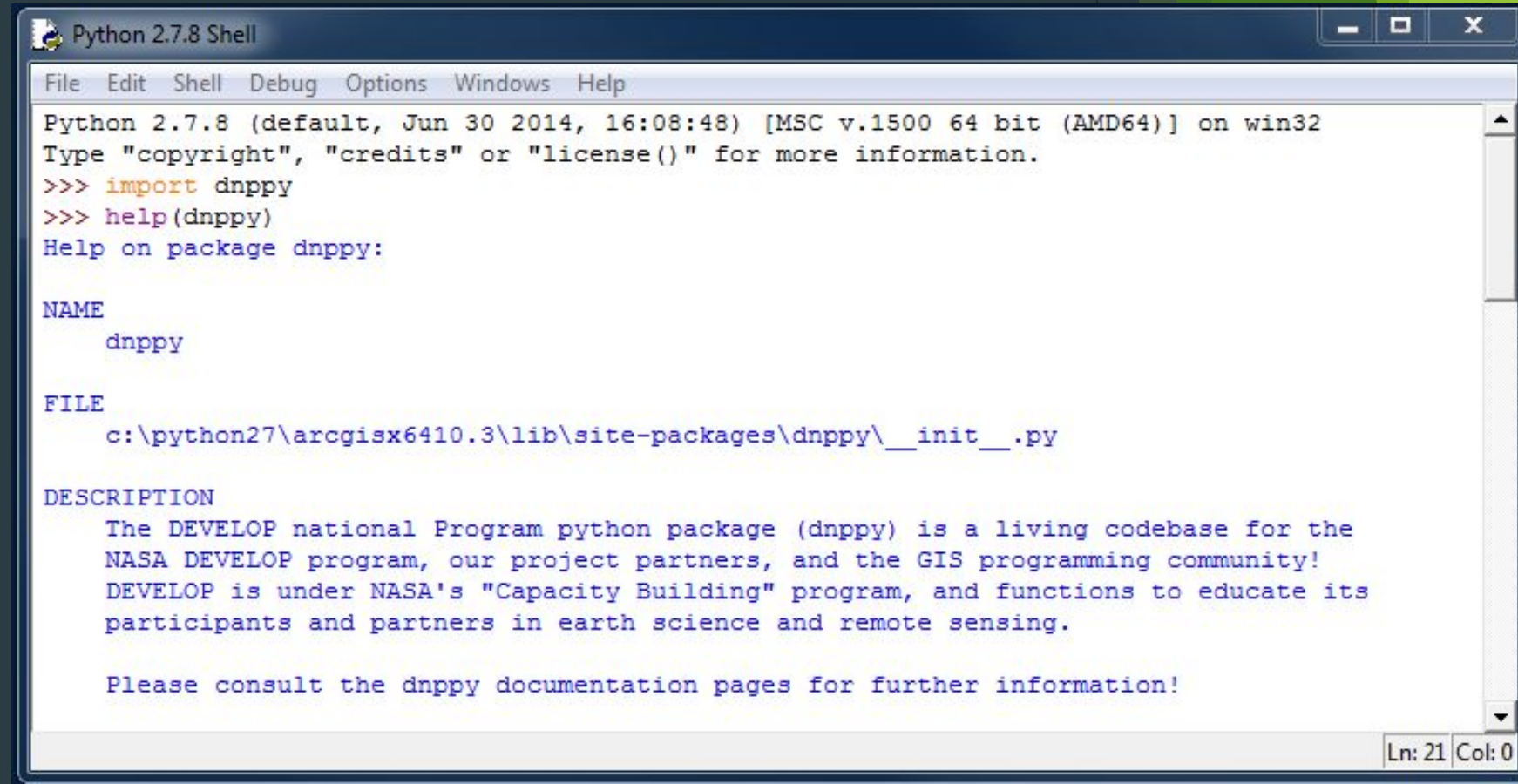
* On occasion, the downloaded zip file is empty and fails to extract. If this happens to you, just try downloading again.

>>> Start

- Run 'import dnppy'
- You now have access to dnppy, gdal, scipy, and many more!

Modules:

- convert
- core
- download
- landsat
- modis
- radar
- raster
- solar
- textio
- tsa



```
Python 2.7.8 Shell
File Edit Shell Debug Options Windows Help
Python 2.7.8 (default, Jun 30 2014, 16:08:48) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> import dnppy
>>> help(dnppy)
Help on package dnppy:

NAME
    dnppy

FILE
    c:\python27\arcgisx6410.3\lib\site-packages\dnppy\__init__.py

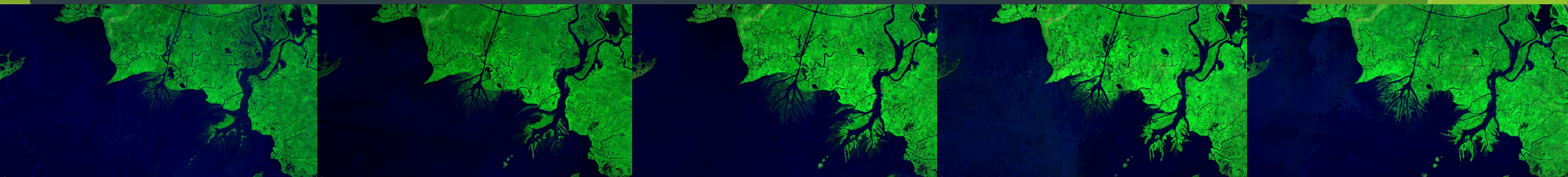
DESCRIPTION
    The DEVELOP national Program python package (dnppy) is a living codebase for the
    NASA DEVELOP program, our project partners, and the GIS programming community!
    DEVELOP is under NASA's "Capacity Building" program, and functions to educate its
    participants and partners in earth science and remote sensing.

    Please consult the dnppy documentation pages for further information!
```

Ln: 21 Col: 0

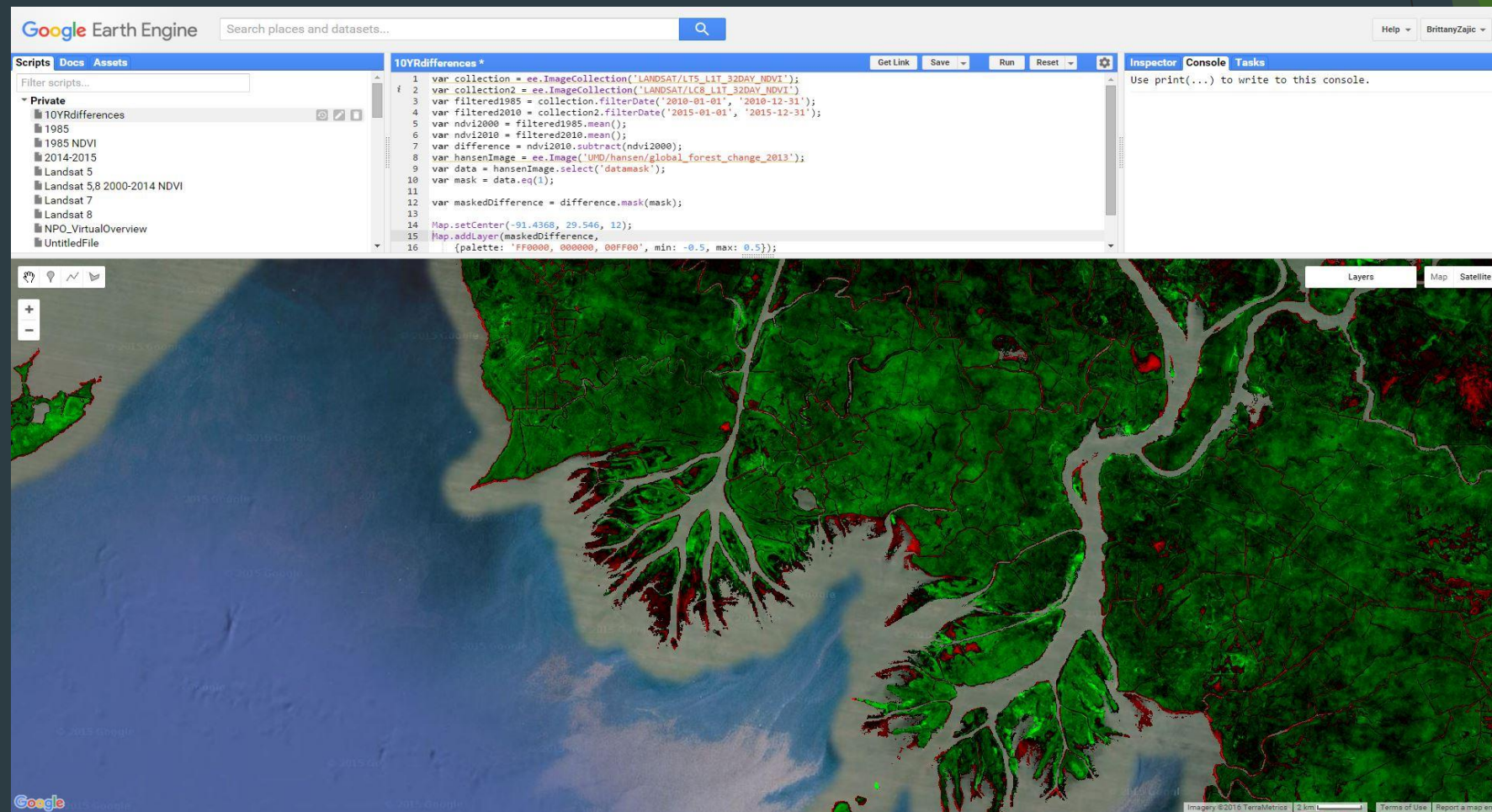
>>> Google Earth Engine

- More than 30+ years of historical imagery and scientific datasets
- Geospatial data instantly available for analysis
- **Landsat 5-8**: 32-Day, 8-Day, Annual; TOA Reflectance, EVI, BAI, NDVI, Raw Scenes (Orthorectified)
- **MODIS Aqua + Terra**: 16-Day, Daily Combined, 1+ Year NBAR Mosaic (8-Day); Global 500m, Global 250m, Vegetation, Snow Cover, EVI, BAI, NDVI, NDSI



>>> Google Earth Engine

- 1) Sign Up at: <https://signup.earthengine.google.com/#/>
- 2) Join Google Developers (GEE API Group) for access to Earth Engine Code Editor: <https://code.earthengine.google.com/>

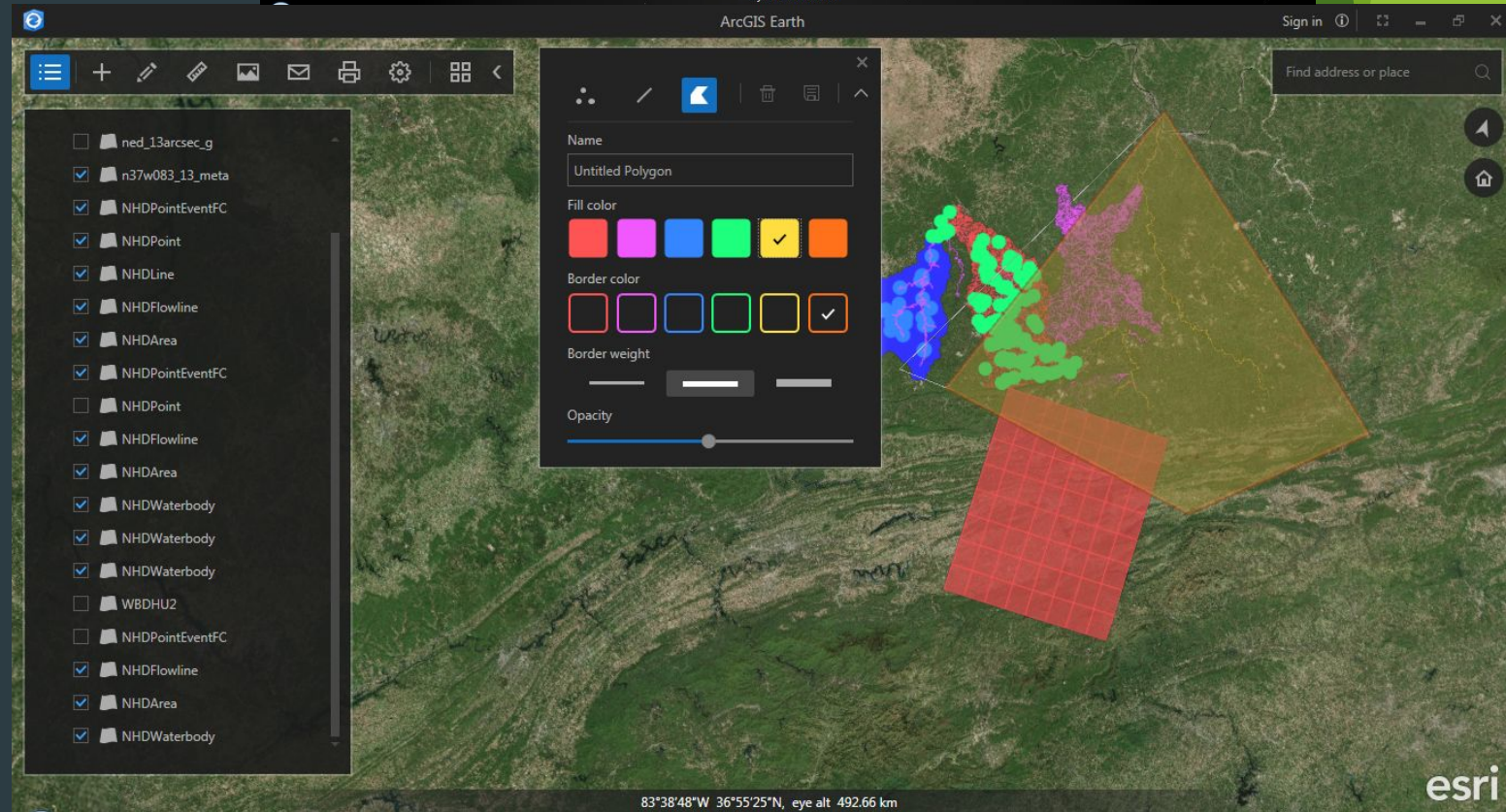
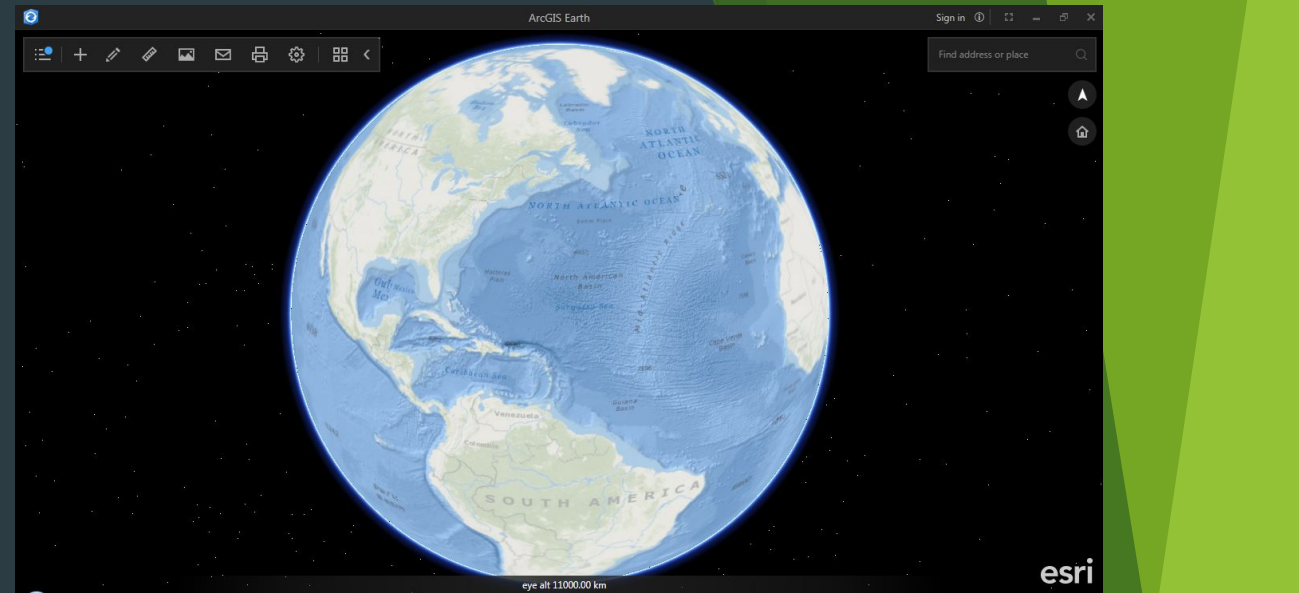


ArcGIS Earth

Free to download and easy to use
Great for displaying data
Easily prints images

Create points, lines, and
polygons

*No data analysis at this
time*



Questions?

```
>>> Questions = raw_input("Any Questions? : ")
```