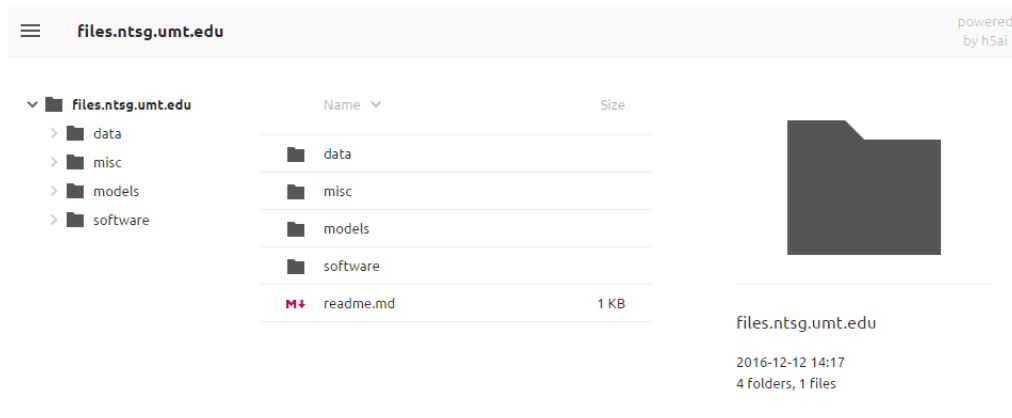


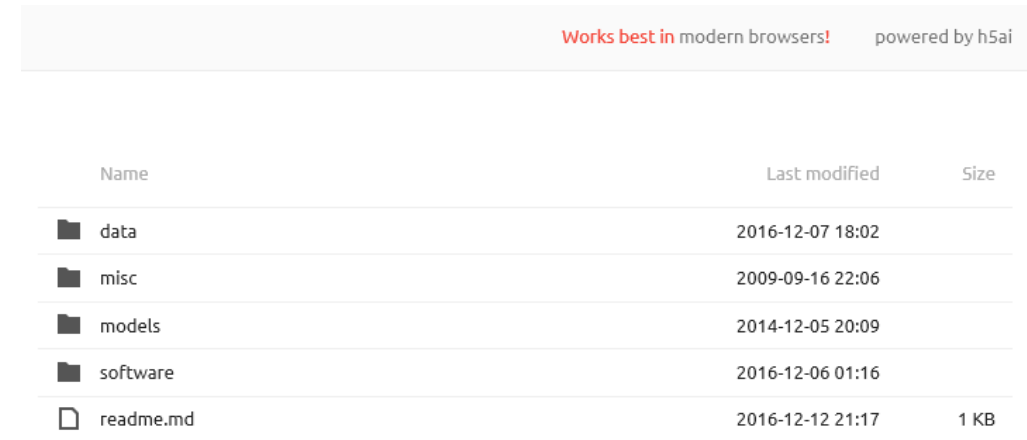
Browser Support



If you see the navigation tree on the left and the information panel on the right, then that means that your browser supports all functionality this data repository provides.

Browsers (that we know of) that **do work** include:

- Google Chrome
- Firefox
- Opera
- Microsoft Edge



If you do not see the navigation tree on the left and the information panel on the right, then that means that your browser does not support all functionality this data repository provides.

Browsers (that we know of) that **do not work** include:

- Internet Explorer

Downloading Data

- Since the data can be retrieved using HTTP protocol, using something like `wget` will be the main avenue of data retrieval.
- The following tools will be looked at in this document:
 - Command line `wget` for Linux and Windows
 - `VisualWget` for Windows

The following pages will focus on showing how to download an entire directory.


IMPORTANT: Scripts that run too aggressively may result in the server banning the originating host for 10 minutes (you know this happened if the website seems to be “down”). You can alleviate this by ensuring to space HTTP requests such that you do not exceed more than 3 or 4 requests per second.

Command Line wget for Windows

To get a version of GNU Wget that works with Windows you can go to:

<http://gnuwin32.sourceforge.net/packages/wget.htm>

You want to download the “Complete package, except sources” file.



Description	Download	Size	Last change	Md5sum
• Complete package, except sources	Setup	3012464	31 December 2008	b4679ac6f7757b35435ec711c6c8d912
• Sources	Setup	1270850	31 December 2008	25cb2d164024b3e478c4ab14b89585a9
• Binaries	Zip	850448	31 December 2008	254b95bd96564eb6db590f2b51f8fd8b
• Documentation	Zip	1244187	31 December 2008	acdf67b1d524526199e51a6224c4071f
• Sources	Zip	2189442	31 December 2008	ef29b3c8b5708825ca008a3938adb8fd
• Dependencies	Zip	1443871	4 September 2008	b23ce98bc2d03f852f8516183c619d42
• Original source	http://ftp.gnu.org/gnu/wget/wget-1.11.4.tar.gz			

You can also download the files from the GnuWin32 [files page](#). New releases of the port of this package can be [monitored](#).

Downloading Data: Command Line `wget`

```
$ wget -w 0.5 -l 0 -r -nH -np -I /models/*,/models -R *.html,*.htm files.ntsg.umd.edu/models
```

The above command will download everything within the “models” folder to “./models”.

These are arguments for `wget` that we recommend to use:

Argument	Description
<code>-w 0.5</code>	OPTIONAL: Wait 0.5 seconds between each retrieval. This lessens the load for the server, and decreases the chance that the server will ban the computer that ran this command. However, this is not strictly necessary especially if the files that are being downloaded are large and thus the time between file retrievals is already spaced out.
<code>-l 0 -r</code>	Retrieve items recursively and specify the maximum recursion depth to be infinity.
<code>-nH</code>	Disable the generation of host-prefixed directories. (e.g. <code>./files.ntsg.umd.edu</code>).
<code>-np</code>	Do not ever ascend to the parent directory when retrieving recursively. This guarantees that only files below a certain hierarchy will be downloaded.
<code>-I /models/*,/models</code>	This guarantees that all directories within models and all files within models will be included in the retrieval. The <code>/models/*</code> argument specifies to include all directories within <code>/models</code> (e.g. <code>/models/otterbgc</code>), and the <code>/models</code> argument specifies to include all non-directory files within <code>/models</code> (e.g. <code>/models/README.HELP</code>).
<code>-R *.htm, *.html</code>	Do not download html files. These are only useful for web browsers, and does not contain the data we need.
<code>files.ntsg.umd.edu/models</code>	The URL of the website that will be traversed. Note that you need to include the full URL of the directory that you wish to download.

Downloading Data: Command Line `wget`

Downloading single folder from MOD16 example

```
$ wget -l 0 -r -nH -np -I \  
> /data/NTSG_Products/MOD16/MOD16A2.105_MERRAGMAO/Y2001/*,/data/NTSG_Products/MOD16/MOD16A2.105_MERRAGMAO/Y2001 \  
> -R *.html,*.htm files.ntsg.umd.edu/data/NTSG_Products/MOD16/MOD16A2.105_MERRAGMAO
```

Here we are downloading data from the Y2001 from the `/data/NTSG_Products/MOD16/MOD16A2.105_MERRAGMAO/` URI.
(This is all one line, and the `\` at the end allows a user in bash to press `ENTER` without executing the command)

Downloading multiple folders from MOD16 example

```
$ wget -l 0 -r -nH -np -I \  
> /data/NTSG_Products/MOD16/MOD16A2.105_MERRAGMAO/Y2001/*,/data/NTSG_Products/MOD16/MOD16A2.105_MERRAGMAO/Y2001, \  
> /data/NTSG_Products/MOD16/MOD16A2.105_MERRAGMAO/Y2002/*,/data/NTSG_Products/MOD16/MOD16A2.105_MERRAGMAO/Y2002 \  
> -R *.html,*.htm files.ntsg.umd.edu/data/NTSG_Products/MOD16/MOD16A2.105_MERRAGMAO
```

Here we are downloading data from the Y2001, Y2002 from the `/data/NTSG_Products/MOD16/MOD16A2.105_MERRAGMAO/` URI.

(This is all one line, and the `\` at the end allows a user in bash to press `ENTER` without executing the command. Although there is a line break after Y2001 for illustration purposes, all of the folder listings in `-I` should be on a single line.)


View the `wget` docs here: <https://www.gnu.org/software/wget/manual/wget.html>


















Downloading Data: VisualWget for Windows

There is a special utility for Windows called VisualWget that allows you to schedule wget jobs via a graphical user interface. To download this, you can go to

<https://sites.google.com/site/visualwget/a-download-manager-gui-based-on-wget-for-windows> .

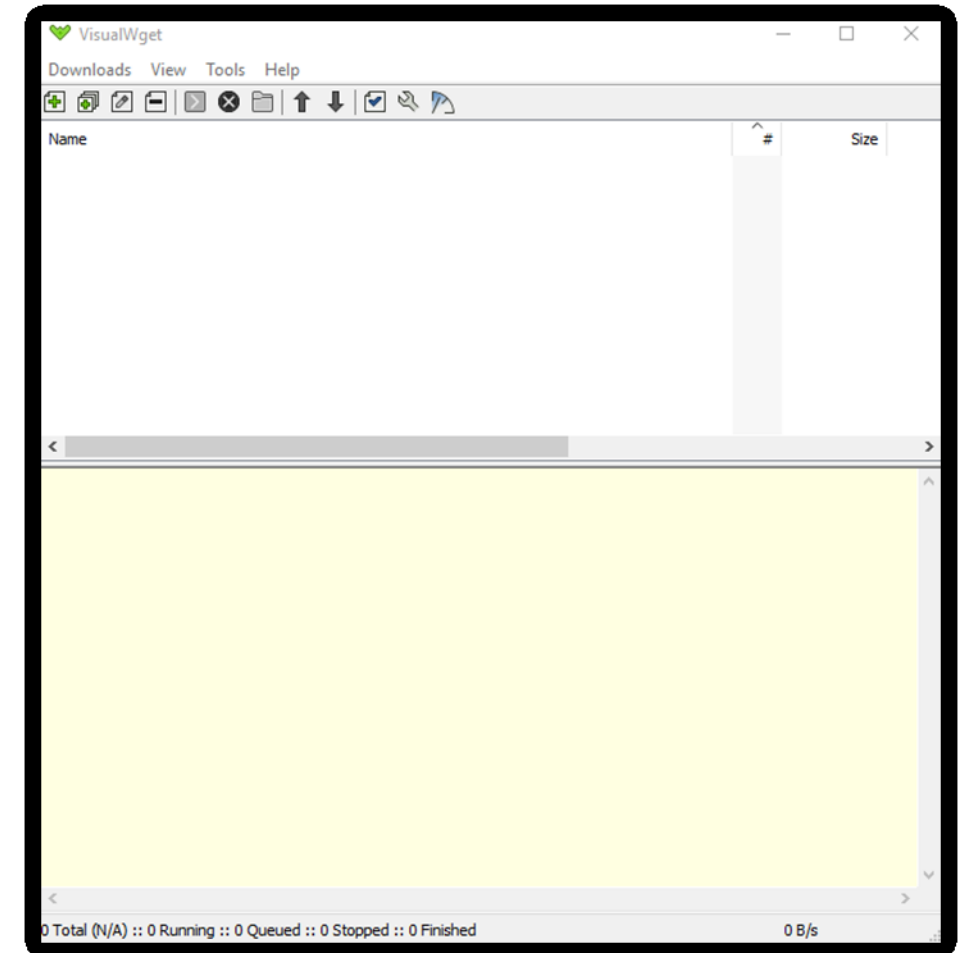
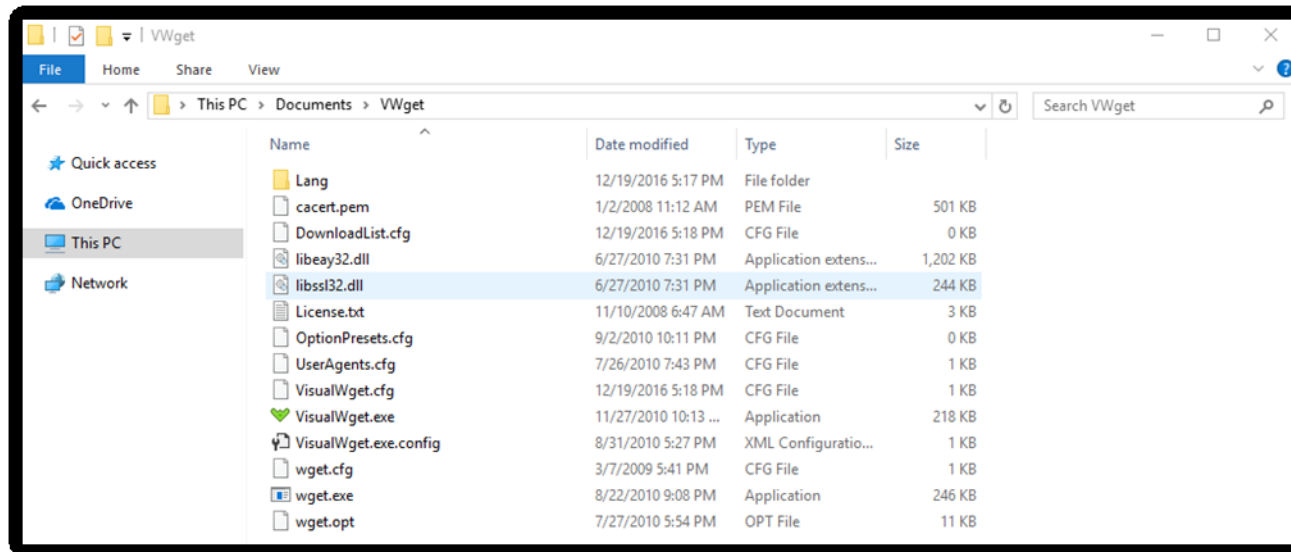
You want to download the “vwget-2.5a2-wget-1.11.4-bin.zip” file.



			
 wget-2.3-lang.zip (36k)	Khomsan Phongphisansakun, May 8, 2012, 5:57 A	v.1	
 wget-2.4-lang.zip (34k)	Khomsan Phongphisansakun, Jan 11, 2013, 10:31	v.4	
 wget-2.4-src.zip (1859k)	Khomsan Phongphisansakun, May 8, 2012, 5:55 A	v.1	
 wget-2.4-wget-1.10.2-bin.zip (958k)	Khomsan Phongphisansakun, May 8, 2012, 5:54 A	v.1	
 wget-2.4-wget-1.11.4-bin.zip (962k)	Khomsan Phongphisansakun, May 8, 2012, 5:54 A	v.1	
 wget-2.5a2-src.zip (1862k)	Khomsan Phongphisansakun, May 8, 2012, 5:56 A	v.1	
 wget-2.5a2-wget-1.10.2-bin.zip (961k)	Khomsan Phongphisansakun, May 8, 2012, 5:56 A	v.1	
 wget-2.5a2-wget-1.11.4-bin.zip (965k)	Khomsan Phongphisansakun, May 8, 2012, 5:55 A	v.1	

Downloading Data: VisualWget for Windows

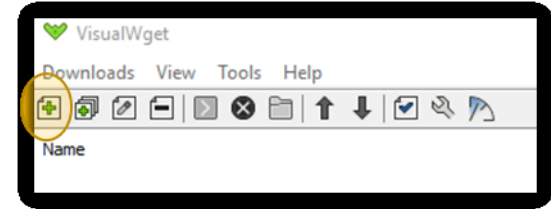
- Extract VisualWget (In this example, the file `wget-2.5a2-wget-1.11.4-bin.zip` was extracted to `Documents\Wget`)
- Double-click on `VisualWget.exe`



Downloading Data: VisualWget for Windows

In this example, we are going to download the `files.ntsg.umd.edu/models` directory.

1. Click on the icon with a plus sign in the upper left hand corner to start a new job.
2. In General > URLs, put `files.ntsg.umd.edu/models`
3. In General > Save files to, put a where you would like to save the retrieved files.
4. In HTTP > User agent, put `Chrome`. (Or whatever browser you want and have installed- this allows `wget` to emulate a browser connection)
5. In Advanced > Directory, ensure that `--no-host-directories` is checked.
6. In Advanced > Recursive Retrieval, ensure that:
 - `--recursive` is checked
 - `--level` is checked and `0` is entered for the `NUMBER` value
7. In Advanced > Recursive Accept/Reject, ensure that:
 - `--reject` is checked and `*.htm,*.html` is entered for the `LIST` value
 - `--include-directories` is checked and `/models/*,/models` is entered for the `LIST` value
 - `--no-parent` is checked
8. Press OK. If “Start this download when I click OK” is checked, then the job will start right away. If it’s not, then you have to right click the job and press “Start” to start it.



Downloading Data: VisualWget for Windows

