

Using **gnverifier** on MS Windows 10

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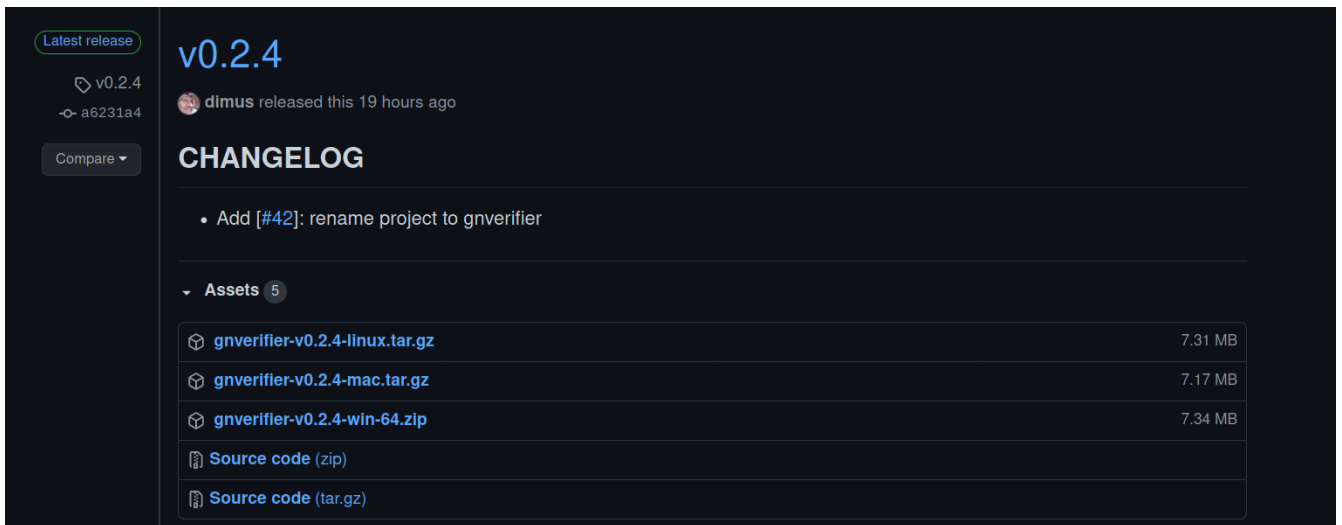
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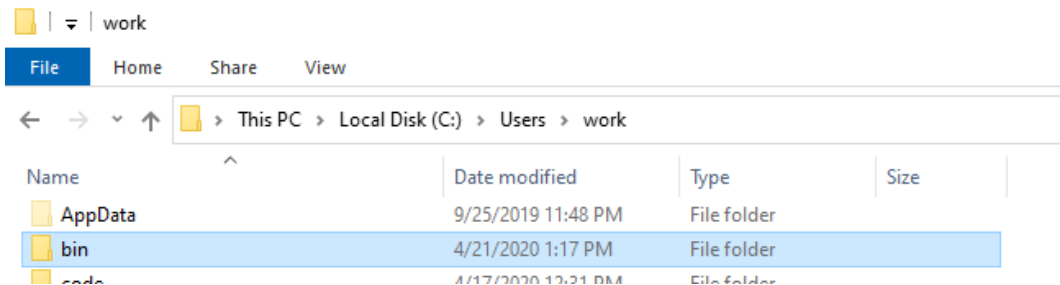
Installation

1. Go to <https://github.com/gnames/gnverifier/releases/latest> and download zip file for windows (it will have a version higher than on the picture).

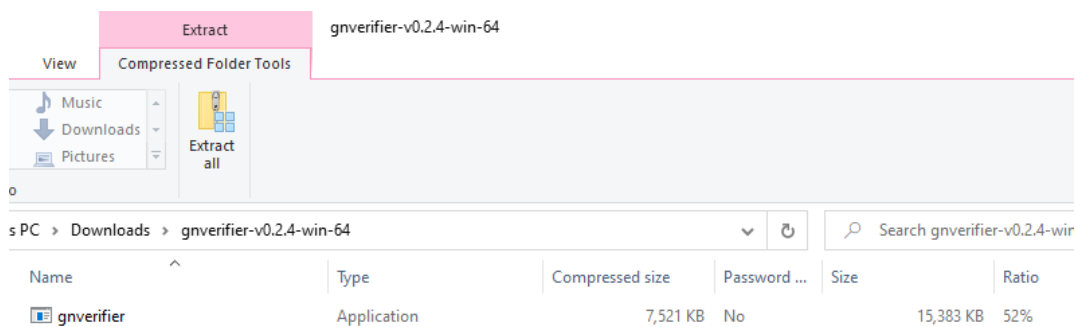
This zip file contains just one compressed executable file.



2. Create a folder called **bin** in your **home** folder (This is the folder with Downloads, Pictures, Desktop folders).



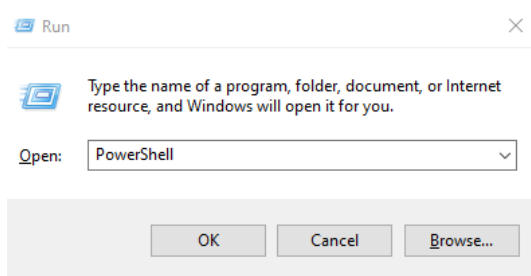
3. Unzip **gnverifier.exe** file from the zip and place it into the **bin** folder.



4. Create **data** folder in your home folder.
5. Open your data in Excel or Word and save scientific names, one per line or per row in a text file. Place this file into **data** folder. In our example we will call the file **names.txt**.

Usage

1. Push **Win-R** buttons on your keyboard to get a command prompt. Type there "PowerShell" and press the OK button.



2. Run **gnfinder**.

You will see the PowerShell terminal window. Type the following commands:

```
cd ~\bin
./gnverifier "Plantago major"
```

After a short delay, you should see a result printed on the screen as a comma-separated value output.

```
PS C:\Users\dimus\bin> ./gnverifier "Pardosa moesta"
time="2021-04-02T07:54:32-07:00" level=info msg="Using config file: C:\\Users\\dimus\\.config\\gnverifier.yaml."
Kind,MatchType,EditDistance,ScientificName,MatchedName,MatchedCanonical,TaxonId,CurrentName,
Synonym,DataSourceId,DataSourceTitle,ClassificationPath,Error
BestMatch,Exact,0,Pardosa moesta,"Pardosa moesta Banks, 1892",Pardosa moesta,3689429,"Pardosa
a moesta Banks, 1892",false,1,Catalogue of Life,Animalia|Arthropoda|Arachnida|Araneae|Lycosi
dae|Pardosa|Pardosa moesta,
```

For the next step, we will read data from a file and save the resulting output into a new file.

```
./gnverifier ..\data\names.txt > ..\data\names-col-map.csv
```

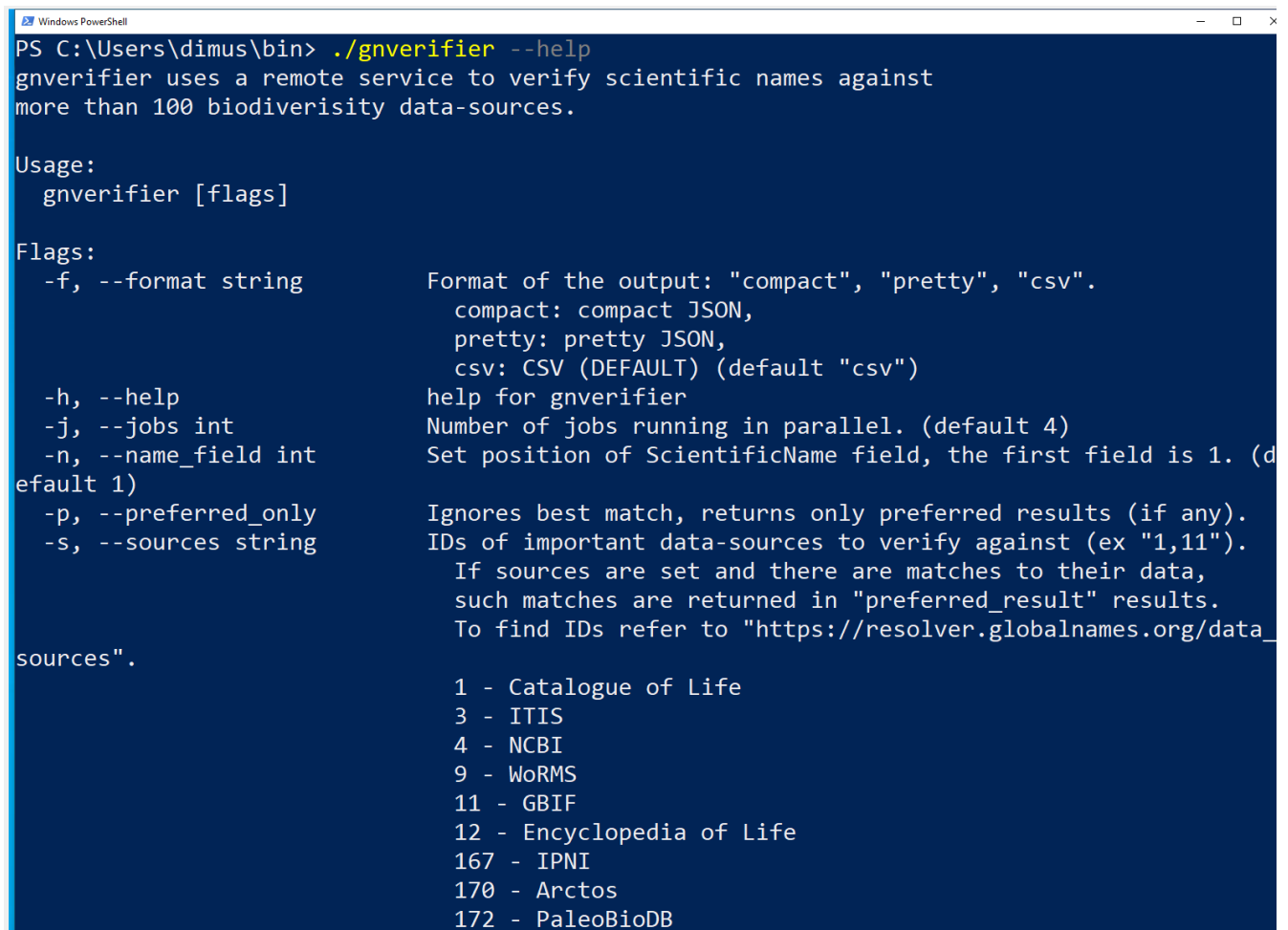
3. To map data from your checklist to, for example, Catalogue of Life data, type:

```
./gnverifier ..\data\names.txt -s 1 -o > ..\data\names-col-map.csv
```

This command will verify your names against data in Catalogue of Life and send resulting output to a new file. Now this file can be opened in Excel or Google Doc.

4. To learn more about options of **gnverifier** type:

```
./gnverifier --help
```



```
PS C:\Users\dimus\bin> ./gnverifier --help
gnverifier uses a remote service to verify scientific names against
more than 100 biodiversity data-sources.

Usage:
  gnverifier [flags]

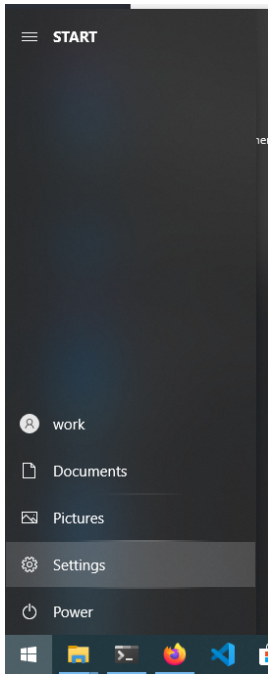
Flags:
  -f, --format string      Format of the output: "compact", "pretty", "csv".
                           compact: compact JSON,
                           pretty: pretty JSON,
                           csv: CSV (DEFAULT) (default "csv")
  -h, --help               help for gnverifier
  -j, --jobs int           Number of jobs running in parallel. (default 4)
  -n, --name_field int     Set position of ScientificName field, the first field is 1. (d
                           efault 1)
  -p, --preferred_only     Ignores best match, returns only preferred results (if any).
                           IDs of important data-sources to verify against (ex "1,11").
                           If sources are set and there are matches to their data,
                           such matches are returned in "preferred_result" results.
                           To find IDs refer to "https://resolver.globalnames.org/data_
                           sources".
                           1 - Catalogue of Life
                           3 - ITIS
                           4 - NCBI
                           9 - WoRMS
                           11 - GBIF
                           12 - Encyclopedia of Life
                           167 - IPNI
                           170 - Arctos
                           172 - PaleoBioDB
```

You can also read about **gnverifier** at its [github site](#)

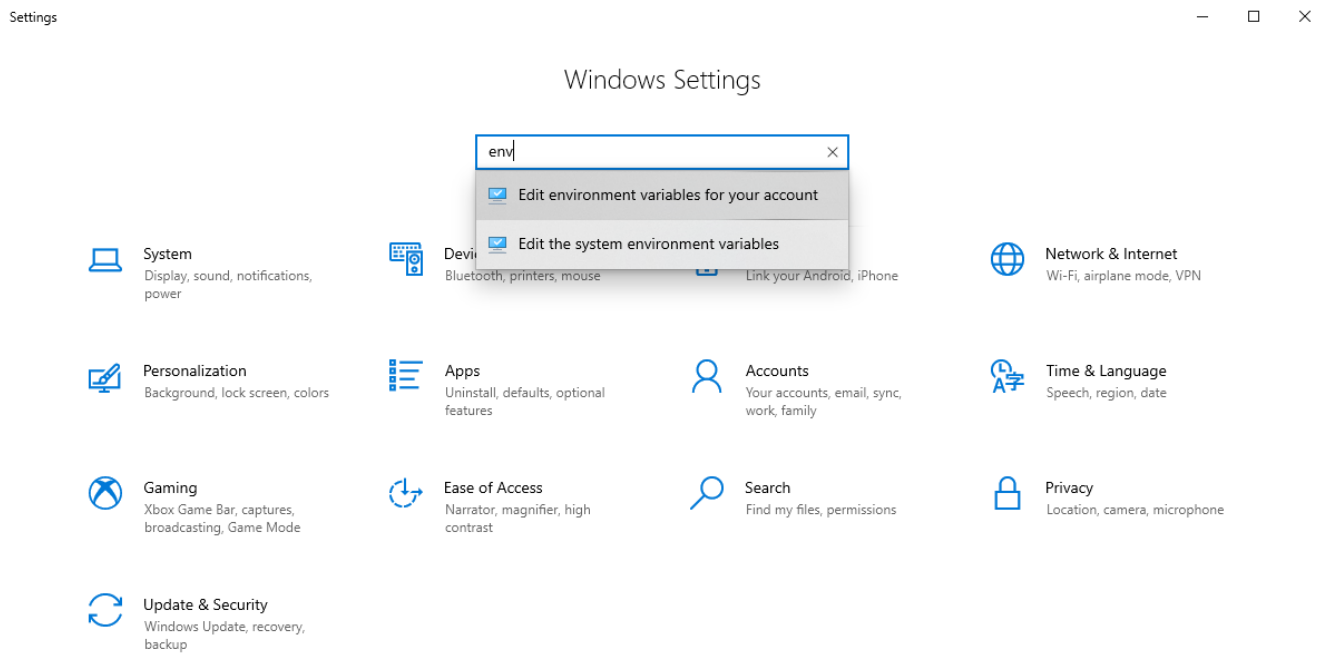
Making **gnverifier** available from any folder

You can always run **./gnverifier** from the **bin** folder, but it is not very convenient. For example, you might like to run it from your data folder.

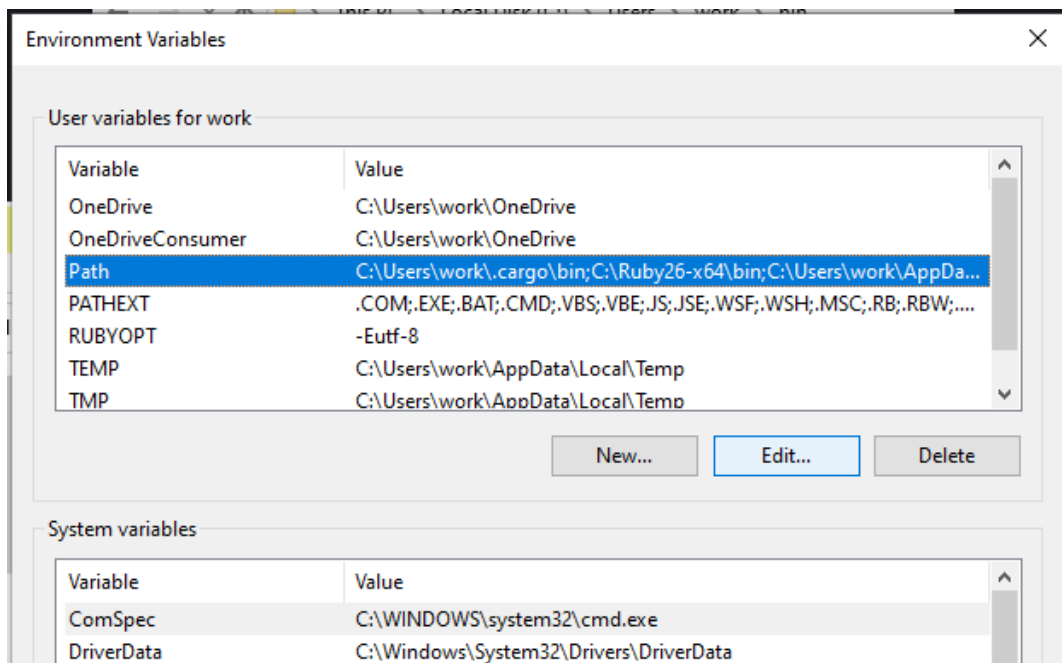
1. To make **gnverifier** available from any folder press the **Win** button and choose settings.



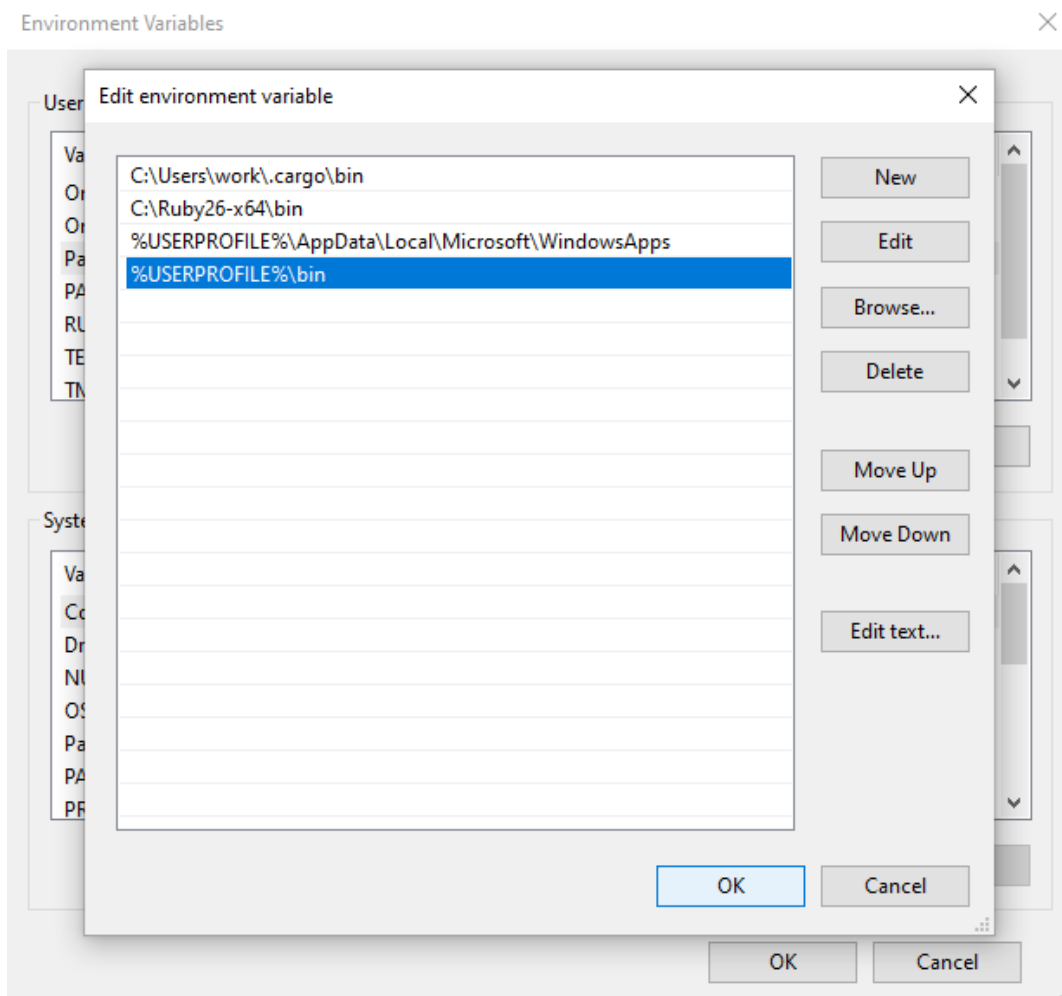
- You will see settings windows with a search prompt in the center. Type “env” in the search prompt, and you will see a couple of returned results. Choose “Edit environment variables for your account”.



- Now we need to find **Path** variable in the first window, select it and push the “Edit” button



- When you see Edit window, push the “New” button and type in either a full path to the bin folder (Something like C:\Users\my-user\bin) or %USERPROFILE%\bin



5. Now you can use `gnverifier` from any folder in PowerShell or cmd terminal window.

```
cd ~\data  
gnverifier names.txt
```