
py_everything

Release 1.1.1

Play 4 Tutorials

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Welcome to the Documentation for `py_everything`. You can find all the modules and how to use them here.
`py_everything` hopes to become a `Python` package that helps you write **everything** much faster and in a easier way.

POWER OF PY_EVERYTHING -

The basic usage for this package is given below:

```
>>> import py_everything
>>> from py_everything import search
>>> search.search_files('python', 'C:\Programming\\')
C:\Programming\python.txt
C:\Programming\projectpython.py
C:\Programming\py_everything-python.docx
>>> my_list = [2, 4, 5, 3, 7, 5, 6, 3, 12, 9, 6]
>>> py_everything.maths.avg(my_list)
5.636363636363637
```


CONTRIBUTORS -

People who have contributed to this project -

- [Play 4 Tutorials](#)(Creator and Maintainer)

2.1 Modules, Functions, and Classes

2.1.1 Detailed Package List

Modules:

- *py_everything*
- *py_everything.automation*
- *py_everything.date_utils*
- *py_everything.fileIO*
- *py_everything.maths*
- *py_everything.requestsLib*
- *py_everything.search*
- *py_everything.web*

Functions:

py_everything:

- *hello_world*
- *print_no_newline*
- *clearPycache*
- *install_modules*

py_everything.automation:

- *email_bot*
- *email_address_slicer*
- *yt_downloader*
- *roll_dice*
- *timer*

py_everything.date_utils:

- *get_date*
- *get_date_time*
- *get_time*
- *get_custom_format*

py_everything.fileIO:

- *read_file*
- *write_file*
- *clear_file*

py_everything.maths:

- *add*
- *subtract*
- *multiply*
- *divide*
- *float_div*
- *int_div*
- *expo*
- *mod*
- *eval_exp*
- *avg*

py_everything.requestsLib:

- *getR*
- *postR*
- *putR*
- *deleteR*
- *patchR*
- *optionsR*
- *headR*
- *getContent*
- *getText*
- *getJson*
- *getHeader*
- *getSpecificHeader*

py_everything.search:

- *search_files*
- *search_dirs*
- *search_exts*
- *search_list*

py_evrything.web:

- *google_search*
- *yt_search*
- *github_search*
- *so_search*
- *amz_in_search*
- *amz_com_search*
- *pypi_search*
- *rtdocs_search*
- *open_new_tab*
- *open_new_window*

Classes:

py_everything.date_utils:

- *Date*

py_everything.fileIO:

- *FileIOBase*

py_everything.maths:

- *MathsBase*
- *MathsAdvanced*

py_everything.requestsLib:

- *ReqLibBase*
- *ReqLibAdvanced*

py_everything.web:

- *webSearchBase*
- *webSearchAdvanced*

2.2 Glossary

2.2.1 D

dependencies

Dependencies Other projects a project is dependent for it to work.

dependents

Dependents Other projects which are depending on this project to work.

directory

Directory A folder.

2.3 py_everything

2.3.1 Import -

How to import the module?

```
>>> import py_everything as pye
```

2.3.2 Your First Program using this package

What's the best way to write your first program than "Hello, World!"

Function name - hello_world()

No. of Parameters - 0

Parameters - No parameters

Usage -

```
>>> pye.hello_world()  
Hello, World!
```

So, we wrote our first program. Let's move on.

2.3.3 Clear pycache

Function name - clearPycache(path)

No. of Parameters - 1

Parameters - path

Usage -

```
>>> pye.clearPycache(path\to\pycache\folder)  
True
```

Provide the path to the folder where the "**__pycache__**" is located. For example - C:\ProgrammingProjectsPython

Note - Do not provide **__pycache__** in the path. That does not clear it. For example - C:\ProgrammingProjectsPython__pycache__. This would return False.

2.3.4 Print without newline

Function name - print_no_newline(*args)

No. of Parameters - infinite

Parameters - *args

Usage -

```
>>> pye.print_no_newline("hello", "world", "this is printed without newline", ".")
hello world this is printed without newline .
```

Pass in the words you want to get printed without newline and That will be printed.

2.3.5 Install modules with pip

Function name - install_modules(*args)

No. of Parameters - infinite

Parameters - *args

Usage -

```
>>> pye.install_modules("py_everything", "requests")
True
```

This function install the given modules using pip. If the command is successful it returns True else False.

2.4 py_everything.automation

2.4.1 Import -

How to import the module?

```
>>> import py_everything.automation as pyeAuto
```

2.4.2 Send a mail with Python

Function name - email_bot(send_addr, password, recv_addr, body, server, port, sub='No Subject')

No. of Parameters - 7

Parameters - send_addr, password, recv_addr, body, server, port, sub='No Subject'

Usage -

```

>>> my_addr = "your.email@add.ress"
>>> my_pass = "your password"
>>> to_addr = "recv.er@add.ress"
>>> my_body = "Email body"
>>> my_server = "your.smtp.server"
>>> my_port = "123"
>>> my_sub = "My Subject"
>>> pye.email_bot(my_addr, my_pass, to_addr, my_body, my_server, my_port, my_sub)
True

```

This function sends a mail to the address passed in *recv_addr*. *sub* is a optional parameter. The mail is sent from the value of *sent_addr*. *sent_addr* and *password* are used to authenticate with the *server*. The *port* is also very important. *body*, and *sub* are the Body and Subject of the email, respectively.

Note - Speacial settings must be enabled for this function to work properly. For e.g. - In Gmail you need to enable Less secure app access.

2.4.3 Slice an email address

Function name - email_address_slicer(full_addr)

No. of Parameters - 1

Parameters - full_addr

Usage -

```

>>> full_addr = 'long.demo.address@long-domain.com'
>>> pye.email_address_slicer(full_addr)
['long.demo.address', 'long-domain.com']

```

This function is usefull to get the username and domain of a email address seperately. *full_addr* takes in the the full email address that is to sliced.

2.4.4 Roll the Dice!

Function name - roll_dice(dice1=True)

No. of Parameters - 1

Parameters - dice_1

Usage -

```
>>> pye.roll_dice(dice_1=True)
4
>>> pye.roll_dice(dice_1=False)
8
>>> pye.roll_dice(dice_1=True)
6
>>> pye.roll_dice(dice_1=False)
11
```

This function doesn't need explanation but still. If `dice_1` is `True` then the number will be within the range of 1 to 6 but if `dice_1` is `False` the range is from 1 to 12. That is `dice_1` signifies the no. of dice being rolled. If `True`, 1 dice, else 2 die. It is `True` by default.

2.4.5 Run a timer

Function name - `timer(seconds, audio_file)`

No. of Parameters - 2

Parameters - `seconds`, `audio_file`

Usage -

```
>>> pye.timer(10, 'path/to/audio/file.mp3')
<---After 10 seconds, it plays the audio_file--->
```

This function counts down `seconds` until it reaches 0 and then plays `audio_file`. Both parameters are required.

2.4.6 Start or run an app or executable.

Function name - `start_app(drive, app_path, exe_name)`

No. of Parameters - 3

Parameters - `drive`, `app_path`, `exe_name`

Usage -

```
>>> pye.start_app('C', 'path/to/exe_file/file_name.exe')
True
```

This function uses the 3 parameters to run any executable.

Note - In `exe_path`, the full path, including exe name and extension are to be provided, in `drive`, only the letter is to be provided, the colon(:) is to be omitted. For example - `start_app('C', 'C:/Program Files/company/exe_name.exe')`.

... **toctree::**

caption Basic:

2.5 py_everything.date_utils

2.5.1 Import -

How to import the module?

```
>>> import py_everything.date_utils as pyeDate
```

2.5.2 Get Current Date

Function Name - get_date()

No. of Parameters - 0

Parameters - None

Usage -

```
>>> pyeDate.get_date()  
2021-03-17
```

This function prints the current date.

2.5.3 Get Current Date and Time

Function Name - get_date_time()

No. of Parameters - 0

Parameters - None

Usage -

```
>>> pyeDate.get_date_time()  
2021-03-07 18:08:19.018239
```

This function prints the current date and time.

2.5.4 Get Current Time

Function Name - get_time()

No. of Parameters - 0

Parameters - None

Usage -

```
>>> pyeDate.get_time()  
18:09:13
```

This function prints the current time.

2.5.5 Get Date and Time in Custom Format

Function Name - `get_custom_format(format)`

No. of Parameters - 1

Parameters - `format`

Usage -

```
>>> pyeDate.get_custom_format('%H:%M:%S')  
18:09:13
```

This function prints the current date or time in `format`.

2.6 py_everything.fileIO

2.6.1 Import -

How to import the module?

```
>>> import py_everything.fileIO as pyeFiles
```

2.6.2 Read Data from a File

Function Name - `read_file(filename)`

No. of Parameters - 1

Parameter - `filename`

Usage -

```
>>> pyeFiles.read_file('path/to/file')  
Data of the file is returned.
```

This function reads the data of `filename` and returns it.

2.6.3 Write Data to a File

Function Name - write_file(filename, writeData=’')

No. of Parameters - 2

Parameter - filename, writeData

Usage -

```
>>> pyeFiles.write_file('path/to/file', writeData="Data to be written to the file.")
True
```

This function reads the file given in filename, then clears all its content and then writes writeData to the file. If these steps are successful, it returns True.

2.6.4 Clear or Erase Contents of a File

Function Name - write_file(filename)

No. of Parameters - 1

Parameter - filename

Usage -

```
>>> pyeFiles.clear_file('path/to/file')
True
```

This function reads the file given in filename, then clears all its contents. If the steps are successful, it returns True.

2.6.5 Make a New directory or Folder

Function Name - mk_dir(dir_name, path)

No. of Parameters - 2

Parameter - dir_name, path

Usage -

```
>>> pyeFiles.mk_dir('folderName', 'path/to/folder')
True
```

This function makes a new *directory* named dir_name in path. If steps are successful, returns True.

2.6.6 Make a New File

Function Name - `mk_file(file_name, path)`

No. of Parameters - 2

Parameter - `file_name`, `path`

Usage -

```
>>> pyeFiles.mk_file('fileName.txt', 'path/to/file/location')
True
```

This function makes a new file named `file_name` in `path`. If steps are successful, returns `True`.

2.6.7 Delete an Empty directory

Function Name - `del_dir(path, dir_name)`

No. of Parameters - 2

Parameter - `path`, `dir_name`

Usage -

```
>>> pyeFiles.del_dir('folderName', 'path/to/folder')
True
```

This function deletes an existing empty *directory* named `dir_name` that is in `path`. If steps are successful, returns `True`. Raises error if *directory* is not empty or does not exist.

2.6.8 Delete a directory with Items(Recursive Deletion)

Function Name - `del_dir_rec(path, dir_name)`

No. of Parameters - 2

Parameter - `path`, `dir_name`

Usage -

```
>>> pyeFiles.del_dir_rec('folderName', 'path/to/folder')
True
```

This function deletes an existing *directory* named `dir_name` that is in `path`. It deletes it regardless, it is empty or has items. If steps are successful, returns `True`. Raises error if directory does not exist.

2.6.9 Delete a File

Function Name - `del_file(path, file_name)`

No. of Parameters - 2

Parameter - `path`, `file_name`

Usage -

```
>>> pyeFiles.del_file('fileName.txt', 'path/to/file/location')
True
```

This function deletes an existing file named `file_name` that is in `path`. If steps are successful, returns `True`. Raises error if file does not exist.

2.7 py_everything.maths

2.7.1 Import -

How to import the module?

```
>>> import py_everything.maths as pyeMaths
```

2.7.2 Add

Function Name - `add(num1, num2, *args)`

No. of Parameters - infinite

Parameters - `num1`, `num2`, `*args`

Usage -

```
>>> pyeMaths.add(1, 4, 3, 7, 3, 10, 13, 24)
65
```

2.7.3 Subtract

Function Name - `subtract(num1, num2, *args)`

No. of Parameters - infinite

Parameters - `num1`, `num2`, `*args`

Usage -

```
>>> pyeMaths.subtract(16, 4, 3)
9
```

2.7.4 Multiply

Function Name - multiply(num1, *args)

No. of Parameters - infinite

Parameters - num1, *args

Usage -

```
>>> pyeMaths.multiply(2, 4, 3)
24
```

2.7.5 Divide

Function Name - divide(num1, num2, type)

No. of Parameters - 3

Parameters - num1, num2, type

Usage -

```
>>> pyeMaths.divide(36, 3, 'float')
12.0
>>> pyeMaths.divide(36, 3, 'int')
12
```

2.7.6 Float Division

Function Name - float_div(num1, num2)

No. of Parameters - 2

Parameters - num1, num2

Usage -

```
>>> pyeMaths.float_div(36, 3)
12.0
```

2.7.7 Integer Division

Function Name - int_div(num1, num2)

No. of Parameters - 2

Parameters - num1, num2

Usage -

```
>>> pyeMaths.int_div(36, 3)
12
```

2.7.8 Exponent

Function Name - expo(num1, num2)

No. of Parameters - 2

Parameters - num1, num2

Usage -

```
>>> pyeMaths.expo(2, 4)
16
```

2.7.9 Modulus

Function Name - mod(num1, num2)

No. of Parameters - 2

Parameters - num1, num2

Usage -

```
>>> pyeMaths.mod(17, 2)
1
```

2.7.10 Evaluate Any Mathematics Expression

Function Name - eval_exp(exp)

No. of Parameters - 1

Parameters - exp

Usage -

```
>>> pyeMaths.expo('2 + 4 - 1 * 2')
10
```

2.7.11 Average

Function Name - avg(listOfNos)

No. of Parameters - 1

Parameters - listOfNos

Usage -

```
>>> pyeMaths.avg(['2', '3', '1', '5', '8', '4', '3'])
3.7142857142857144
```

2.7.12 Note

These functions have not been explained separately because they explain themselves.

2.8 py_everything.requestsLib

2.8.1 Import -

How to import the module?

```
>>> import py_everything.requestsLib as pyeRLib
```

2.8.2 Send a GET Request

Function Name - getR(apiUrl)

No. of Parameters - 1

Parameters - apiUrl

Usage -

```
>>> pyeRLib.getR("protocol://api.domain.com/user/1")  
<Response [200]>
```

This function uses `requests` to send a get request to apiUrl.

2.8.3 Send a POST Request

Function Name - postR(apiUrl, data=None)

No. of Parameters - 2

Parameters - apiUrl, data

Usage -

```
>>> pyeRLib.postR("protocol://api.domain.com/users", "{\"id\":1}")  
<Response [200]>
```

This function uses `requests` to send a post request to apiUrl.

2.8.4 Send a PUT Request

Function Name - putR(apiUrl, data=None)

No. of Parameters - 2

Parameters - apiUrl, data

Usage -

```
>>> pyeRLib.putR("protocol://api.domain.com/users", data="{\"id\":1}")
<Response [200]>
```

This function uses `requests` to send a put request to apiUrl.

2.8.5 Send a DELETE Request

Function Name - deleteR(apiUrl)

No. of Parameters - 1

Parameters - apiUrl

Usage -

```
>>> pyeRLib.deleteR("protocol://api.domain.com/user/1")
<Response [200]>
```

This function uses `requests` to send a delete request to apiUrl.

2.8.6 Send a PATCH Request

Function Name - patchR(apiUrl, data=None)

No. of Parameters - 2

Parameters - apiUrl, data

Usage -

```
>>> pyeRLib.patchR("protocol://api.domain.com/users", data="{\"id\":1}")
<Response [200]>
```

This function uses `requests` to send a patch request to apiUrl.

2.8.7 Send a OPTIONS Request

Function Name - optionsR(apiUrl)

No. of Parameters - 1

Parameters - apiUrl

Usage -

```
>>> pyeRLib.optionsR("protocol://api.domain.com/users")
<Response [200]>
```

This function uses `requests` to send a options request to apiUrl.

2.8.8 Send a HEAD Request

Function Name - headR(apiUrl)

No. of Parameters - 1

Parameters - apiUrl

Usage -

```
>>> pyeRLib.headR("protocol://api.domain.com/users")
<Response [200]>
```

This function uses `requests` to send a head request to apiUrl.

2.8.9 Get Content from a Response

Function Name - getContent(response)

No. of Parameters - 1

Parameters - response

Usage -

```
>>> pyeRLib.getContent(pyeRLib.getR("protocol://api.domain.com/user/1"))
<--Content of the reponse-->
```

This function uses `requests` to get the content of response.

2.8.10 Get Text from a Response

Function Name - getText(response)

No. of Parameters - 1

Parameters - response

Usage -

```
>>> pyeRLib.getText(pyeRLib.getR("protocol://api.domain.com/user/1"))  
<--Text of the reponse-->
```

This function uses `requests` to get the text returned to response.

2.8.11 Get JSON from a Response

Function Name - getJson(response)

No. of Parameters - 1

Parameters - response

Usage -

```
>>> pyeRLib.getJson(pyeRLib.getR("protocol://api.domain.com/user/1"))  
<--JSON of the reponse-->
```

This function uses `requests` to get the JSON returned to response.

2.8.12 Get Headers from a Response

Function Name - getHeader(response)

No. of Parameters - 1

Parameters - response

Usage -

```
>>> pyeRLib.getHeader(pyeRLib.getR("protocol://api.domain.com/user/1"))  
<--Headers of the reponse-->
```

This function uses `requests` to get the Headers returned to response.

2.8.13 Get a Specific Header from a Response

Function Name - `getSpecificHeader(response, headerName)`

No. of Parameters - 2

Parameters - `response`, `headerName`

Usage -

```
>>> pyeRLib.getSpecificHeader(pyeRLib.getR("protocol://api.domain.com/user/1"))
<--Content of headerName of the reponse-->
```

This function uses `requests` to get the content of `headerName` returned to `response`.

2.9 py_everything.search

2.9.1 Import -

How to import the module?

```
>>> import py_everything.search as pyeSearch
```

2.9.2 Search Files

Function Name - `search_files(keyword, path)`

No. of Parameters - 2

Parameters - `keyword`, `path`

Usage -

```
>>> pyeSearch.search_files("mykeyword", "D:")
['D:\mykeyword.txt', 'D:\file-with-mykeyword.pdf', 'D:\myfolder\pymykeyword.py']
```

This function searches for files with `keyword` in them in `path`. And returns a list containing the full path of those files.

2.9.3 Search Folders

Function Name - `search_dirs(keyword, path)`

No. of Parameters - 2

Parameters - `keyword`, `path`

Usage -

```
>>> pyeSearch.search_dirs("myfolder", "D:")
['D:\\folder\\myfolder', 'D:\\myfolder-py']
```

This function searches for folders or directories with keyword in them in path. And returns a list containing the full path of those folders or directories.

2.9.4 Search by Extension

Function Name - search_exts(ext, path)

No. of Parameters - 2

Parameters - ext, path

Usage -

```
>>> pyeSearch.search_exts("txt", "D:")
['D:\\folder\\file.txt', 'D:\\py.txt']
```

This function searches for files with the extension ext in path. And returns a list containing the full path of those files.

2.9.5 Search in Lists

Function Name - search_list(listOfTerms, query, filter='in')

No. of Parameters - 3

Parameters - listOfTerms, query, filter

Usage -

```
>>> mylist = ["python", "pipypi", "py", "endpy", "other", "file", "everything"]
>>> pyeSearch.search_list(mylist, "py", filter="in")
['python', 'pipypi', 'py', 'endpy']
>>> pyeSearch.search_list(mylist, "py", filter="start")
['python', 'py']
>>> pyeSearch.search_list(mylist, "py", filter="end")
['endpy']
>>> pyeSearch.search_list(mylist, "py", filter="exact")
['py']
```

This function searches for items with query in them in listOfItem. And returns a list containing the items. filter can have 4 values, i.e., 'in', 'start', 'end', 'exact'. 'in' returns items which have query in them. 'start' returns items which start with query. 'end' returns items which end with query. 'exact' returns items which are exactly the query.

2.10 py_everything.web

2.10.1 Import -

How to import the module?

```
>>> import py_everything.web as pyeWeb
```

2.10.2 Search Google

Function Name - google_search(query)

No. of Parameters - 1

Parameters - query

Usage -

```
>>> pyeWeb.google_search("py_everything")  
<--It opens a tab in your browser and shows the results-->
```

This function searches Google for query.

2.10.3 Search Youtube

Function Name - yt_search(query)

No. of Parameters - 1

Parameters - query

Usage -

```
>>> pyeWeb.yt_search("py_everything")  
<--It opens a tab in your browser and shows the results-->
```

This function searches YouTube for query.

2.10.4 Search GitHub

Function Name - github_search(query)

No. of Parameters - 1

Parameters - query

Usage -

```
>>> pyeWeb.github_search("py_everything")  
<--It opens a tab in your browser and shows the results-->
```

This function searches GitHub for query.

2.10.5 Search Stack Overflow

Function Name - so_search(query)

No. of Parameters - 1

Parameters - query

Usage -

```
>>> pyeWeb.so_search("py_everything")  
<--It opens a tab in your browser and shows the results-->
```

This function searches Stack Overflow for query.

2.10.6 Search Amazon.in

Function Name - amz_in_search(query)

No. of Parameters - 1

Parameters - query

Usage -

```
>>> pyeWeb.amz_in_search("py_everything")  
<--It opens a tab in your browser and shows the results-->
```

This function searches Amazon.in for query.

2.10.7 Search Amazon.com

Function Name - amz_com_search(query)

No. of Parameters - 1

Parameters - query

Usage -

```
>>> pyeWeb.amz_com_search("py_everything")  
<--It opens a tab in your browser and shows the results-->
```

This function searches Amazon.com for query.

2.10.8 Search PyPI

Function Name - `pypi_search(query)`

No. of Parameters - 1

Parameters - query

Usage -

```
>>> pyeWeb.pypi_search("py_everything")  
<--It opens a tab in your browser and shows the results-->
```

This function searches PyPI for query.

2.10.9 Search Read The Docs

Function Name - `rtdocs_search(query)`

No. of Parameters - 1

Parameters - query

Usage -

```
>>> pyeWeb.rtdocs_search("py_everything")  
<--It opens a tab in your browser and shows the results-->
```

This function searches Read the Docs for query.

2.10.10 Search in a New Tab

Function Name - `open_new_tab(url, query)`

No. of Parameters - 2

Parameters - url, query

Usage -

```
>>> google_url = 'https://google.com/search?q='
>>> pyeWeb.open_new_tab(google_url, "py_everything")
<--It opens a tab in your browser and shows the results-->
```

This function searches Google for query in a new tab.

2.10.11 Search in a New Window

Function Name - open_new_window(url, query)

No. of Parameters - 2

Parameters - url, query

Usage -

```
>>> gh_url = 'https://github.com/search?q='
>>> pyeWeb.open_new_window(gh_url, "py_everything")
<--It opens a window in your browser and shows the results-->
```

This function searches GitHub for query in a new window.

... toctree::

caption Basic:

2.11 Dependencies and Dependents**2.11.1 py_everything depends on -**

- requests
- playsound
- pytube

2.11.2 py_everything is depended upon by -**2.12 License**

MIT License

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2.12.1 Need Help?

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