## Flask-Runner Documentation Release

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Flask-Runner provides a set of standard command line arguments for Flask applications built on top of Flask-Script.

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## **Example code**

In its simplest usage, an application can create and initialize a *Runner* object as follows:

```
from flask import Flask
from flask.ext.runner import Runner
app = Flask (__name__)
runner = Runner(app)

@app.route('/')
def hello_world():
    return 'Hello World!'

if __name__ == '__main__':
    runner.run()
```

This application now has command line options that expose many of the configuration options that can be sent as arguments to *app.run()*:

```
$ python hello.py --help
usage: hello.py [-h] [-t HOST] [-p PORT] [--threaded] [--processes PROCESSES]
                [--passthrough-errors] [-d] [-r] [--noeval] [--extra FILE]
                [--profile] [--profile-count COUNT]
                [--profile-percent PERCENT] [--profile-regex REGEX]
                [--profile-dir DIR] [--lint]
Runs the Flask development server i.e. app.run()
optional arguments:
 -h, --help
                        show this help message and exit
 -t HOST, --host HOST
 -p PORT, --port PORT
 --threaded
 --processes PROCESSES
 --passthrough-errors
 -d, --no-debug
 -r, --no-reload
 --noeval
                       disable exception evaluation in the debugger
 --reload-extra FILE
                       additional file for the reloader to watch for changes
 --profile
                        run the profiler for each request
 --profile-count COUNT
                        restrict profiler output to the top COUNT lines
  --profile-percent PERCENT
                        restrict profiler output to the top PERCENT lines
 --profile-regex REGEX
```

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	filter profiler output with REGEX		
profile-dir DIR	write profiler results one file per request in folder		
	DIR		
lint	run the lint validation middleware		

Below are some example ways in which the application can be invoked.

To start server with all defaults (listen on http://127.0.0.1:5000 with debugger and reloader):

```
$ python hello.py
```

To listen on the public IP addresses:

```
$ python hello.py --host 0.0.0.0
```

To listen on port 8080:

```
$ python hello.py --port 8080
```

To disable the interactive debugger:

```
$ python hello.py --no-debug
```

To disable evaluation of expressions on the debugger:

```
$ python hello.py --noeval
```

To disable the interactive debugger and the reloader:

```
$ python hello.py --no-debug --no-reload
```

To enable the interactive reloader and make it watch config.txt and babel.cfg in addition to the application source files:

```
$ python hello.py --reload-extra config.txt --reload-extra babel.cfg
```

To run the Werkzeug profiler on each request showing the top 30 lines:

```
$ python hello.py --profile --profile-count 30
```

To run the Werkzeug lint middleware:

```
$ python hello.py --lint
```

## **Advanced Usage**

Flask-Runner is built on top of Flask-Script and it exposes all the classes and functions of that extension with some minor additions. The following example creates a manage.py script:

```
from flask import Flask
from flask.ext.runner import Manager
app = Flask(__name__)
manager = Manager(app)

@app.route('/')
def hello_world():
    return 'Hello World!'

if __name__ == '__main__':
    manager.run()
```

Note that the Manager class is imported from flask.ext.runner instead of flask.ext.script. This enhanced version of the *Manager* class provides three default commands:

```
$ python manage.py
Please provide a command:
  runserver Runs the Flask development server i.e. app.run()
  shell Runs a Python shell inside Flask application context.
  test Runs unit tests.
```

The runserver command exposes the same options available when using the Runner wrapper described above. The shell option is the same as in Flask-Script. The test command will run unit tests using nose.

Refer to the Flask-Script documentation for information on adding custom commands.