

# Text Classifier

Write a Python program called `classify.py` that will report if a given input is:

- uppercase, e.g., "HELLO"
- lowercase, e.g., "hello"
- title case, e.g., "Hello"
- a digit, e.g., "10"
- a space, e.g., " " or the tab character "\t"
- none of the above, e.g., "1.2"

The program should work like so:

```
$ ./classify.py HELLO
HELLO is uppercase.
$ ./classify.py hello
hello is lowercase.
$ ./classify.py Hello
Hello is title case.
$ ./classify.py 10
10 is a digit.
$ ./classify.py " "
input is space.
$ ./classify.py "1.2"
1.2 is unclassified.
```

It should print a brief usage if provided with no arguments:

```
$ ./classify.py
usage: classify.py [-h] str
classify.py: error: the following arguments are required: str
```

And a longer usage for the `-h` or `--help` flags:

```
$ ./classify.py -h
usage: classify.py [-h] str

Classify a given string

positional arguments:
  str                Some text

optional arguments:
  -h, --help        show this help message and exit
```

It should pass all the tests:

```
$ make test
pytest -xv test.py
===== test session starts =====
...
collected 8 items

test.py::test_exists PASSED [ 12%]
test.py::test_usage PASSED [ 25%]
test.py::test_upper PASSED [ 37%]
test.py::test_lower PASSED [ 50%]
test.py::test_title PASSED [ 62%]
test.py::test_digit PASSED [ 75%]
test.py::test_space PASSED [ 87%]
test.py::test_unclassified PASSED [100%]

===== 8 passed in 0.44s =====
```