
shapes2 Documentation

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CHAPTER 1

Introduction

This package provides functions to calculate the area and perimeter of different shapes. You can install it by downloading this repository and calling:

```
pip install -e .
```

in the directory containing setup.py

Functions are separated by shape and calculation. To see an example of them in action checkout [Examples](#).

2.1 Square

`shapes.square.area.area_square (length)`
Calculates the area of a square.

$$area = length^2$$

Parameters `length` (*float like*) – length of one side of a square

Returns `area` – area of the square

Return type `float`

`shapes.square.perimeter.perimeter_square (length)`

$$perimeter = 4 * length$$

Parameters `length` (*float*) – length of one side of a square

Returns `perimeter` – perimeter of the square

Return type `float`

2.2 Triangle

`shapes.triangle.area.area_triangle (base, height)`

$$area = \frac{base * height}{2.0}$$

Parameters

- **base** (*float*) – length of the base of the triangle
- **height** (*float*) – height of the triangle

Returns **area** – area of the triangle

Return type float

Below are links to examples for inputing jupyter notebooks into your website

3.1 This is an Example Notebook

```
In [1]: print("Hello World!")
```

```
Hello World!
```

```
In [4]: for idx in range(0,100,5):
        print(idx)
        if idx % 10 == 0:
            print("\t every other 5 is divisible by 10")
```

```
0
    every other 5 is divisible by 10
5
10
    every other 5 is divisible by 10
15
20
    every other 5 is divisible by 10
25
30
    every other 5 is divisible by 10
35
40
    every other 5 is divisible by 10
45
50
    every other 5 is divisible by 10
55
60
    every other 5 is divisible by 10
65
```

```
70      every other 5 is divisible by 10
75
80      every other 5 is divisible by 10
85
90      every other 5 is divisible by 10
95
```

CHAPTER 4

Indices and tables

- `genindex`
- `modindex`
- `search`

A

`area_square()` (in module `shapes.square.area`), [3](#)
`area_triangle()` (in module `shapes.triangle.area`), [3](#)

P

`perimeter_square()` (in module `shapes.square.perimeter`),
[3](#)