## Mathematical Function Features

- No Hysteresis No History No Memory
- "Idempotence"
- The results are always the same for a given argument
   >>> int("10f1", 16)
   4337
- Does not depend on anything that happened before

## Examples of Hysteresis

- Places where Python needs to diverge from the ideal...
- These are function-like
  - Function syntax applied to stateful objects

```
>>> from random import randint
>>> randint(1,6)
1
>>> randint(1,6)
5
```

```
>>> from os import getcwd
>>> getcwd()
'/Users/pha212/Documents/
Python'
```