

DOCUMENTING

An Introduction to Computer Science



Documenting Code

1. For sharing code
2. For re-reading old code
3. To organize our current code



Single-line Comment

```
# This line is ignored  
a = 0 # The rest of this line is ignored  
b = 0
```

"Octothorpe"
"Pound"
"Hash"
#



Multi-line Comment

```
'''
```

```
All of this code has been commented out!  
Or rather, turned into a string.
```

```
age = 0
```

```
name = "Klaus Bart"
```

```
'''
```

Safely
commented
out

```
def my_function(x:int, y:int)-> int:
```

```
'''
```

```
The start of this string  
needed to be indented!
```

```
'''
```

IndentationError!



How Much to Comment?

High: Every line of code

Medium: Some lines of code

- Confusing lines of code
- Large chunks of code

Low: Only Functions



Documenting functions

```
def fix_capitalization(title:str)->str:  
    '''
```

1) What
it does

This function capitalizes the first letter of each word in the title, correctly ignoring prepositions.

2) Argument
types

Args:

title (str): A book or movie title
that we want to fix.

3) Argument
description

Returns:

str: The corrected title

```
    '''
```

4) Return
type

5) Return
description

