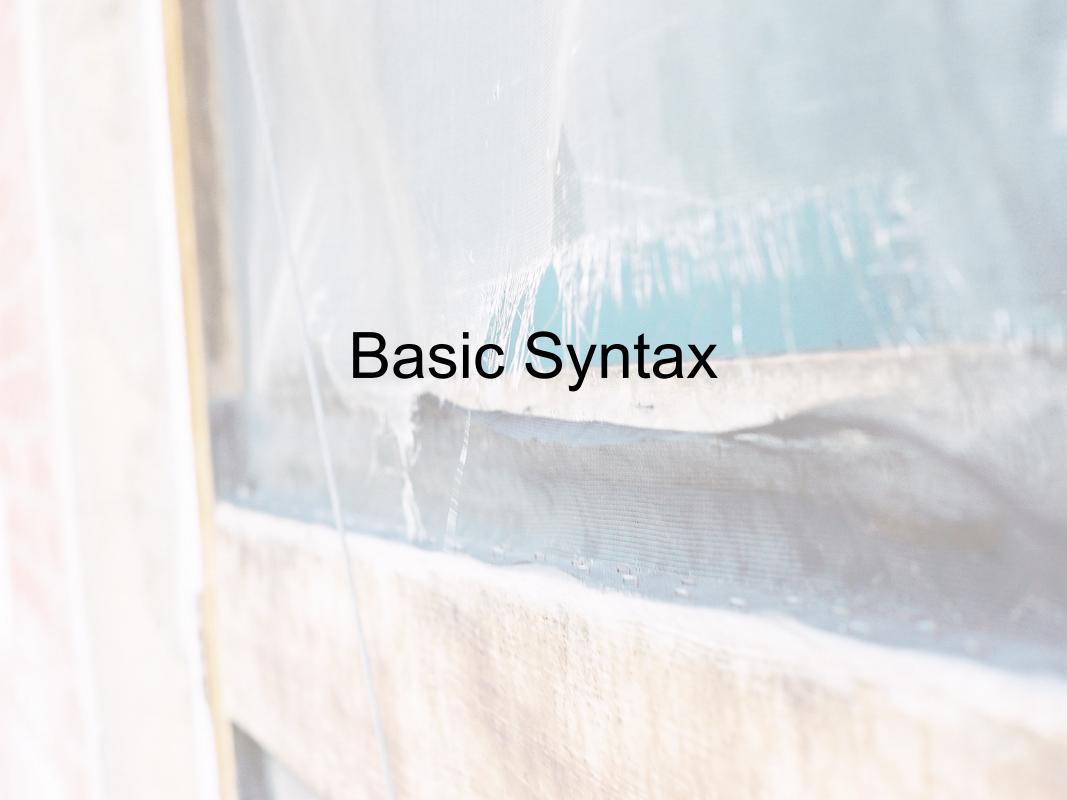
Basic Programming

using Python

Learning another language is essential for your growth as a programmer and/or a computer scientist. Python is a great language to pick up. Many members of Hacker Society enjoy it, allowing one to collaborate with them.

Links

- <u>http://python.org/</u> # official site
- <u>http://diveintopython.org/</u> # free book
- http://proquest.safaribooksonline.
 com/book/programming/python/9780596805395 # Learning
 Python (use vpn)
- http://proquest.safaribooksonline.
 com/book/programming/python/0132269937 # Core Python Programming (use vpn)



Bash ___ 🗀 🕽



vi example.py

```
#!/usr/bin/env python
## These are comments
x = 1 \# there are no variable 'declarations'
print x
# print y
# However you do need to instantiate a
# variable before you use it.
print (x + 5) * 7 # math works as you would
           # expect
```

Bash ___ _

```
touch example.py
$ vi example.py
$ python example.py
```

Bash ___ X



vi strings.py

```
#!/usr/bin/env python
string_1 = 'hello world'
string_2 = "hello world"
print string_1 == string_2
print string_1.split(' ')
```

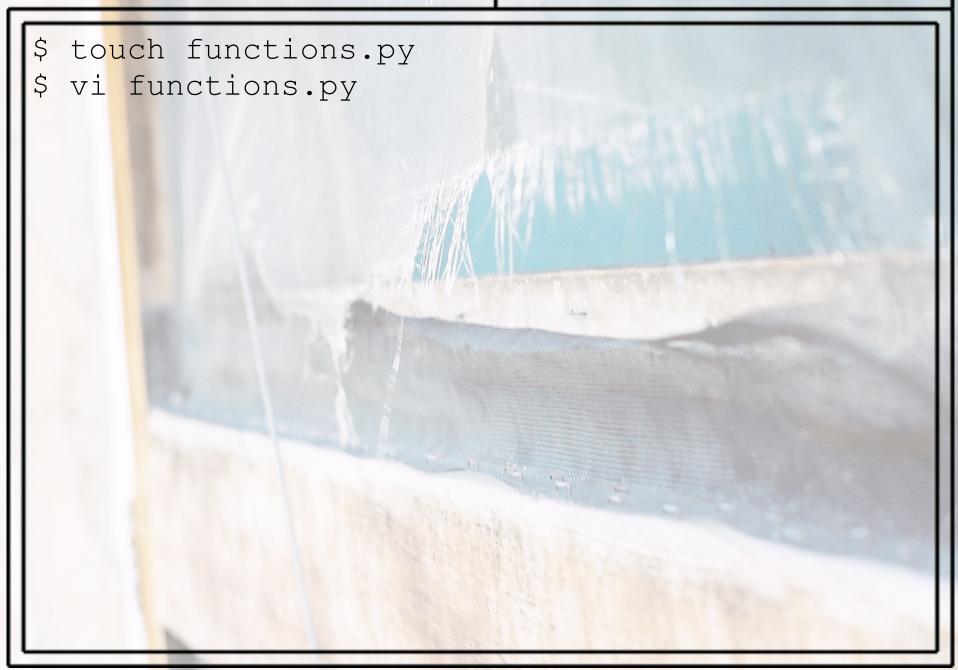
Bash



```
$ touch strings.py
$ vi strings.py
$ python strings.py
True
['hello', 'world']
```

Bash





vi functions.py

```
#!/usr/bin/env python
def factorial(n):
 ** ** **
 Computes the factorial function recursively.
 ** ** **
 if n > 1:
  return n * factorial(n-1)
 else:
  return 1
print factorial(5)
```

Bash



```
touch functions.py
$ vi functions.py
$ python functions.py
```

There is a lot more,

see the links page