

Loops

Python for Ecologists

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Conditionals

- whitespace is very important, determines the close

```
if grade >= 90:
    print "A"
elif grade >= 80:
    print "B"
elif grade >= 70:
    print "C"
elif grade >= 60:
    print "D"
else:
    print "F"
```

Booleans

```
cloudy = True  
rainy = False
```

Loop iteration

through a list of numbers

```
for value in [1,2,3,4,5,6,7]:  
    print value
```

using range

```
for value in range(1,8):  
    print value
```

enumeration

through a list of strings with indices

```
watersheds = ["Suwanne", "Oconee", "Tennessee", "Flint"]
```

```
for index, value in enumerate(watersheds):  
    print index, value
```

can also loop through dictionaries

break, continue, and pass

using break

```
for number in range(1,8):  
    if number < 5:  
        print number  
    else:  
        break
```

using continue

```
for number in range(1,8):  
    if number < 5:  
        print number  
        continue
```

pass

```
for number in range(1,8):  
    if number < 5:  
        print number  
    else:  
        pass
```