

Loops

Python for Ecologists

Chance Pascale, Tom Purucker, Tao Hong

Ecological Society of America Workshop
Portland, OR
purucker.tom@gmail.com

August 4, 2012

Notes

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"
```

Notes

Booleans

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

Notes

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
```

Notes

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
```

Notes

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
```

Notes

Notes

Notes
