CS150

Announcements

- Intro to Linux at 12:30 tomorrow
   in 121 Ritter
   Another session 5pm in 1 week

- HW2 due next Saturday

- To submit, open a webbrowser in nx

Recap:

- cs1graphics
- Basic data types:
  float, int, string, list, tuple
  + methods

Definitions

Object: instance of a class

way to pair data & methods in a meaningful way

Mutable: changeable (objects)

lists

Immutable: non-changable

int, strings, tuples
$x = x + y$

Print (from a script)

```
waitlist = ['Eric', 'Sam', 'Vanessa']
print    waitlist.pop() , 'your table is ready',

    or
print    waitlist.pop() + ', your table is ready',
```

Comma inserts a space

each prints also gives a newline
to avoid newline, end with comma

Printing nonstrings

```
print 'There are', waitlist.index('Vanessa'),
      'people ahead of Vanessa'
```

```
print 'Current list \n -------------- \n'
      + '\n'.join(waitlist)
```

newline (annotation pointing to first `\n`)

'Eric \n Sam \n Vanessa \n' (annotation pointing to `.join(waitlist)`)

Input:

To prompt for user input from a file, use <u>raw_input</u>

Ex:

~~print~~ "Hello, what is your name?"

name = raw_input()

print `Hi`, name + '!'

fix ↳ (use + to avoid spaces: name+'!')

(Can also avoid seperate print statement)

Input with non strings

```
age = int(raw_input('What is your age?'))
print 'Soon you will be', (age+1)
```

Errors: (2 issues)

→ raw_input returns a string
'21'

Comments

Use # to block out line

Every few lines indicate what
your program should do.

Case Study

Write a program to change a
date from format:
03-27-1980
to format:

March 27, 1980

Steps:

1. User input

2. Convert to other format

3. Print

Practice Problems (if time)

Take a s