CSCI 1300

Intro to Computing

Gabe Johnson

Lecture 4   Jan 23, 2013

Python: Loops & Functions

Lecture Goals

1. Announcements
2. Using RetroGrade to submit your homework
3. Using Git to get the cs1300 repository.
4. More Python examples!

Upcoming Homework Assignment

HW #1 **Due: Friday, Jan 25**

Hello World

RetroGrade is up! Visit retrograde.cs.colorado.edu to create an account and turn in your 'hello world' assignments.
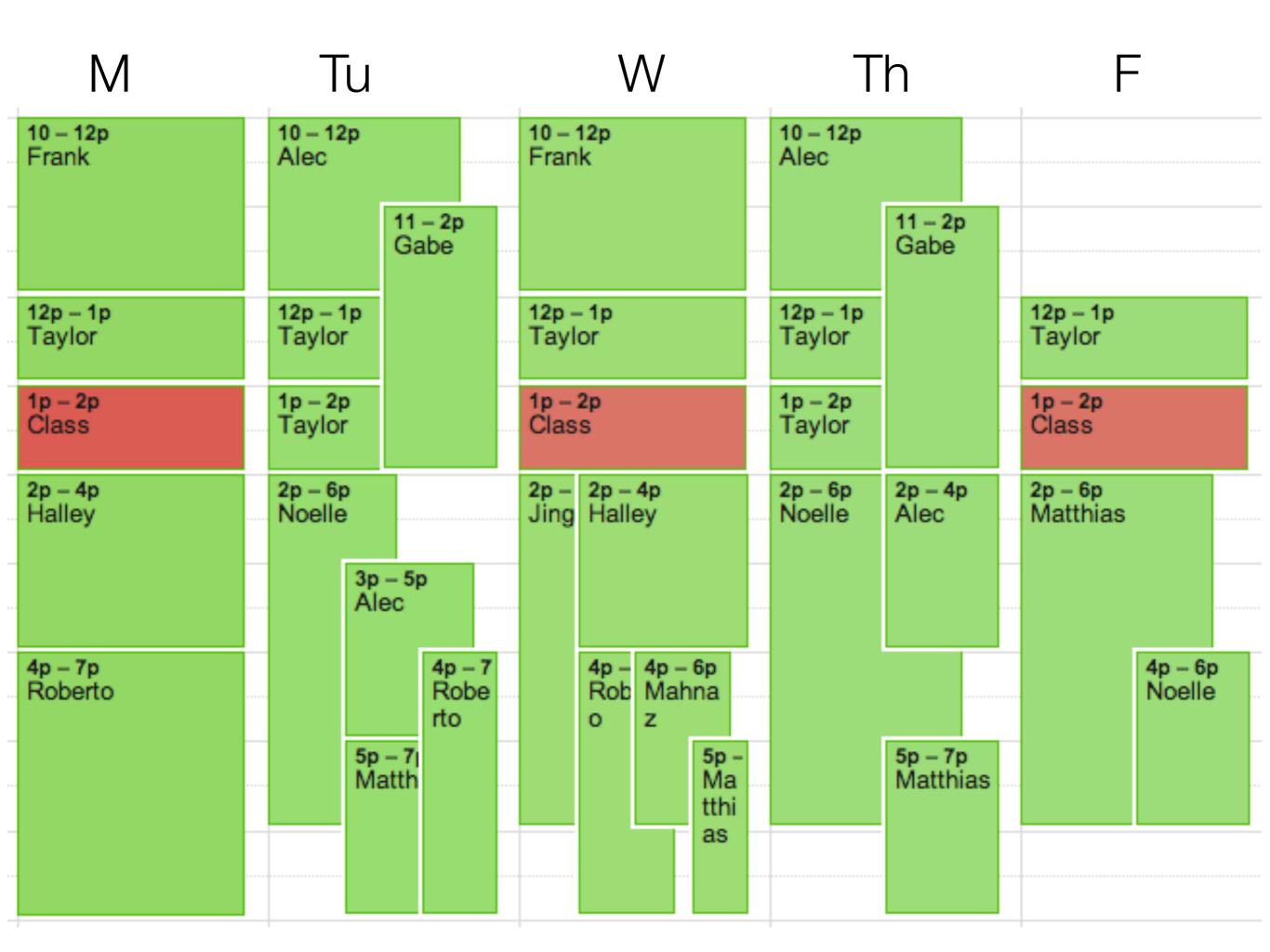
Announcements

1. **RetroGrade:** The grading system is up at retrograde.cs.colorado.edu.

2. **Grading Scripts:** learn from the unit tests at github.com/johnsogg/grading-scripts.

Announcements II

3. **Office Hours!** All take place in the same room. Different names, same place: ECCS 128, CSEL, The Fishbowl. It is keycard access only, which *sucks* but fortunately you can register your BuffOne card for this room by going to

csel.cs.colorado.edu

... and clicking 'CSEL account activation'.

M	Tu	W	Th	F
10 – 12p Frank	**10 – 12p** Alec	**10 – 12p** Frank	**10 – 12p** Alec	
	11 – 2p Gabe		**11 – 2p** Gabe	
12p – 1p Taylor	**12p – 1p** Taylor	**12p – 1p** Taylor	**12p – 1p** Taylor	**12p – 1p** Taylor
1p – 2p Class	**1p – 2p** Taylor	**1p – 2p** Class	**1p – 2p** Taylor	**1p – 2p** Class
2p – 4p Halley	**2p – 6p** Noelle	**2p –** Jing **2p – 4p** Halley	**2p – 6p** Noelle **2p – 4p** Alec	**2p – 6p** Matthias
	3p – 5p Alec			
4p – 7p Roberto	**4p – 7** Roberto	**4p –** Roberto **4p – 6p** Mahnaz		**4p – 6p** Noelle
	5p – 7p Matth	**5p – Matthias**	**5p – 7p** Matthias	

Using RetroGrade

retrograde.cs.colorado.edu

I'll show you in my browser, but the big points are:

1. Make a user account and use your student ID. This is how I will identify you and give you grades.
2. Turn in only one language at a time.

Using Git (optional!)

Some of you are having trouble saving files from GitHub. Here's an easy solution! I'll show you in my browser, but the steps are:

1. Go to the course GitHub and copy the HTTP descriptor URL that says "https://github.com/johnsogg/cs1300.git"

2. Go to your command line and type/paste:
git clone https://github.com/johnsogg/cs1300.git

Using Git (Optional)

3. You just downloaded the course git repository into a directory called 'cs1300'. You may cd into it and look around. The homework and lecture slides are all there!

4. When I change or add things to the git repository, you can 'pull' down those changes by going into the cs1300 directory and typing:

git pull

Last Time in 1300...

We learned about the 'print' function:

```
print "Hello there, y\'all"
```

We learned about doing math with numbers, and to store values in variables:

```
foo = ((2 * 7) - (2 / 2))
```

We learned to do neat tricks by combining strings and numbers with math operations:

```
print "Sputnik" * (2+1)
```

(prints "SputnikSputnikSputnik")

Last time in 1300...

We learned that we can't directly combine strings (like "Sputnik") and numbers (like 4). We have to *cast* numbers into strings before we can combine them:

```
sputnik_age = 4
print "My dog Sputnik is " + str(sputnik_age) + " years old."
```

This time in 1300:

Today we'll cover the contents of *Learn Python the Hard Way* **through Exercise 21**. Be ready to type! Topics include:

- Getting input from the user
- Sending arguments (aka parameters) to your program
- Readin' and Writin' files
- Functions! This is where it gets awesome.