



Advanced Python - Curriculum Outline
Code First: Girls Advanced Python Outline (Summer 2016)

Session 1: Basics of Python, Part 1

- What is Python
- Basic usage, printing, comments, pip
- Forming teams to begin together towards competition ideas for HTML/CSS website which can include Python- but is not obligatory
- Opportunity to ask questions & re-iterate on things where necessary

Session 2: Basics of Python, Part 2

- Conditional statements, comparison operators
- Logical operators, boolean logic
- Intro to arrays, iteration, lists of data
- Noting course competition ideas & groups

Session 3: Flask, GET/POST requests

- Flask, GET & POST requests
- Returning HTML from the server
- Finalise course competition ideas & groups

Session 4: Using external APIs

- Sending e-mails using Mandrill
- Building a simple sign-up form which will trigger an e-mail send via our Flask app
- Check in on course competition site names & groups

Session 5: Using external APIs & deploying

- Getting data from Twitter & displaying it
- Talk about possible ways to deploy things, e.g. Heroku
- Check in on course competition site names & groups
- Reminder final course competition presentations will be in Session 6

Session 8: Project Presentations

- Project presentations (5-10 mins per group)
- Instructors decide on course competition winner (10 mins)