

Code First: Girls Advanced Python Outline (Autumn 2015)

Session 1: Basics of Python, Part 1

- What is Python
- Basic usage, printing, comments, pip

Session 2: Basics of Python, Part 2

- Conditional statements, comparison operators
- Logical operators, boolean logic
- Intro to arrays, iteration, lists of data

Session 3: Flask, GET/POST requests

- Flask, GET & POST requests
- Returning HTML from the server

Session 4: Competition entry session

- Entire session devoted to teams working together towards their competition ideas
- Opportunity to ask questions & re-iterate on things where necessary

Session 5: 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

Session 6: Using external APIs & deploying

- Getting data from Twitter & displaying it
- Talk about possible ways to deploy things, e.g. Heroku

Session 7: Competition entry session

- Entire session devoted to teams working together towards their competition ideas
- Opportunity to ask questions & re-iterate on things where necessary

Session 8: Project Presentations

- Spend the first 45 minutes finalising projects
- Spend 1 hour on group presentations (5-10 mins/group).
- Instructors will select a winner