Exercises

Day 1

- Read 5 minutes: https://docs.python.org/3/library/index.html
- Read 5 minutes: help(str)
- **Spend 5 minutes on http://pythontutor.com with some simple code you tried.**
  Suggestion: try some for loops step by step

Meditation question: Name an advantage of open source

Project:

Use MS Excel to create a list of at least 25 people's names, titles, phone numbers, and email addresses (Feel free to use https://www.mockaroo.com for data inspiration). Save the file as CSV. Use Python's CSV reader to loop over the data. Use a print template to create VCard files (see wikipedia for the VCard format). Use the code from vcard.py as a model for creating QR codes from the Vcards (see the REST API links in the cheatsheet).

Day 2

- Read 5 minutes: printed materials
- Read 5 minutes: help(list), help(dict)
- **Read 5 minutes the code for log_analysis.py and grand_tour.py. Write down**
  your questions for class.

Meditation question: How would you describe what the with-statement does?

Project:

Make a list of servers you have access to. Use Python to generate ping's between them. Summarize the ping times in a graph structure (use a dict d[fromserver, toserver]=pingtime). Generate graphviz output, possibly showing each node in a position corresponding to its physical location).

Day 3

- Use your 15 minutes reading time to review the code we cover in class.
- Write down your questions for class.

Project:

Using nextbus Rest API (http://nextbus.com/xmlFeedDocs/NextBusXMLFeed.pdf) ensure the next sf-muni 'N' bus will come to Judah St & La Playa St within 5 minutes

Day 4

We will do code review of class Projects during day 4.

Following 2 weeks

Spend 2 weekly hours reviewing class content material, class log files and suggested material in links.txt