

## Project

*Draft - Subject to Change*

As part of completing COGS18, you must complete an independent project.

### Objectives

The broad objectives of this project are for you to:

- Choose a topic that you are interested and work on code that is related to fulfilling that idea
- Be able to plan out what is required for a computational solution to your chosen topic
- Design and write an implementation of your project plan in Python code
- Work with different coding tools, including using Jupyter notebooks and Python files

### Project Schedule

- W6: Project Description released.
  - Starting this week CodingLabs will be explicitly oriented towards project related work.
- W7: By the end of this week, you must have a project topic / outline
- W8-10: Working on the project
- Finals Week: projects due (Dec. 12th)

### Project Requirements

To complete the project you must submit a Jupyter notebook that demonstrates your project, as well as executable version of your project as a Python script. Projects are individual, and each person needs to submit a project including (at least some) unique and original code. Projects can also include code that comes directly from the assignments, and/or from working with other students on project ideas, but this should be clearly marked and attributed in your submissions.

### Project Topics

For your project, you can choose a topic that extends from an assignment application, or propose your own topic.

Possible topics:

- 0) Encryption (A2)
- 1) Chatbots (A3)
- 2) Artificial Agents (A4)
- 3) Research (A5)
- 4) Choose your own adventure (propose and develop your own project idea)

### Getting Started

We strongly encourage you to discuss potential project ideas on Piazza, and with your TAs and IAs, and with the instructor through office hours and coding labs. This will give us a chance to make sure you're on the right track even before you submit your draft.