# Lecture #2: Setting up your learning/tinkering digital environment

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12-770: Autonomous Sustainable Buildings: Theory to Practice

Civil & Environmental
ENGINEERING
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# Administrivia…

- My office hours will be Tuesdays 11-12am
- We still don't have a designated TA
- Are you on a waitlist?
- I will schedule readings starting tomorrow.
  - Save time on your schedule for this
- I created accounts on the GitLab repository for the course's website
- I also set up a Piazza page for the class

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# First things first…

- Pick a computer which you will use for this course

- Download and install Anaconda for Python selecting the appropriate operating system for you:

  - https://www.anaconda.com/products/individual

- You may also want to install the PyCharm IDE (with Anaconda plugin, a 30-day trial), or Spyder.

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# First things first…

- Learn about conda and environments here:
  - [https://conda.io/projects/conda/en/latest/user-guide/getting-started.html](https://conda.io/projects/conda/en/latest/user-guide/getting-started.html)

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# First things first…

- Let's go through the full "Getting Started…" document for Anaconda:
  - https://conda.io/docs/user-guide/getting-started.html

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# New to Python?

- Go through a tutorial, like this one:
  - https://docs.python.org/3/tutorial/introduction.html

- For NumPy, here's another tutorial:
  - https://docs.scipy.org/doc/numpy/user/quickstart.html

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# Tips for when you are stuck

- Check out the documentation
  - https://docs.python.org/3/
  - Also:
    - Try Pydoc:
      *python –m pydoc function.name*
    - Try hitting Shift + Tab from Jupyter Notebook
    - Try the help() function

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# Git and Gitlab

- We will be distributing content and working on joint projects using Git via a private Gitlab server.

- An example course repository is here:
  - https://git.inferlab.org/websites/12-770

- I will create an account on that server for you to access it.

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# Git and Gitlab

- Git has a steep learning curve, but you won't be able to learn it unless you are actively working with it, so get your hands dirty!

  - This means we'll switch off from PowerPoint and follow the rest of the course through the Jupyter Notebook that we will end up committing to the the course's repository.
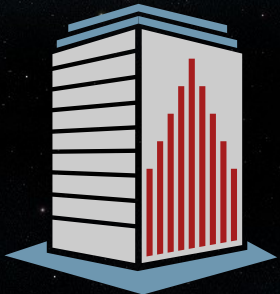
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The End

# QUESTIONS?

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INFERLab

Intelligent Infrastructure
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