# Getting Data

Gottem

# This Lecture

Getting some data.

# Before we start...

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1. Assignment later this week.

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2. Working Together, part 2

# Assignment

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1. Should go live Wednesday evening (i.e. after the lecture)

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2. You should *absolutely* not wait until the last minute.

# Working Together

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With another assignment being release, some more thoughts on working together for 320. These thoughts only apply to 320.

# Getting Data!

Last week we talked about *data*. Great fine, bit whoop. We want to actually use data!

# Python to the rescue

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There's lots of data on the internet. Some of it is useful. Even less of it is SFW. Luckily, we can write programs that let us get this data.

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2. You're going to have to get comfortable with exploring what you get back.

3. All hope is not lost, there are some common things that will help.

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2. CSV is crucial and will almost certainly come up.
3. Learning some basic HTML will help, but understand that few sites produce compliant HTML
4. GraphQL is the new kid on the block, unclear how popular it will be (maybe huge!)

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1. If you go in thinking that a website has definitely followed the standard, you're only producing tears.
2. Use an interactive environment (REPL, Jupyter Notebook, etc.)

# To the Notebook!

What the title says.

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2. Look up the API docs for the website you're trying to use
3. Realize the docs are bad
4. Go through the stages of acceptance
5. Explore/play with what you get and press on

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1. Beautiful Soup (HTML)
2. CSV
3. Manipulating JSON into other formats
4. For all of these: read the docs of the libraries!

Thanks for your time!