

Collaborative Coding

03/07/18

Before we begin:

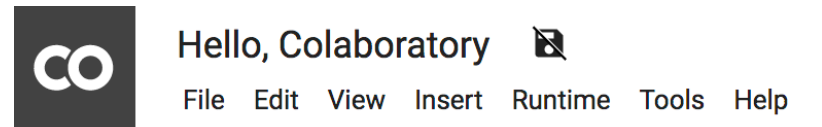
Go to teletype.atom.io and install both Atom and the Teletype package*

***In Atom go to Settings (⌘,) + Install, search for Teletype**

What can you use?

- An old notebook with a tattered cover you pass around between you and your coworkers
- Lines of code delivered by carrier parrots
- Or, in the modern era, virtual options such as:

- Google Colaboratory



- Atom's Teletype Package

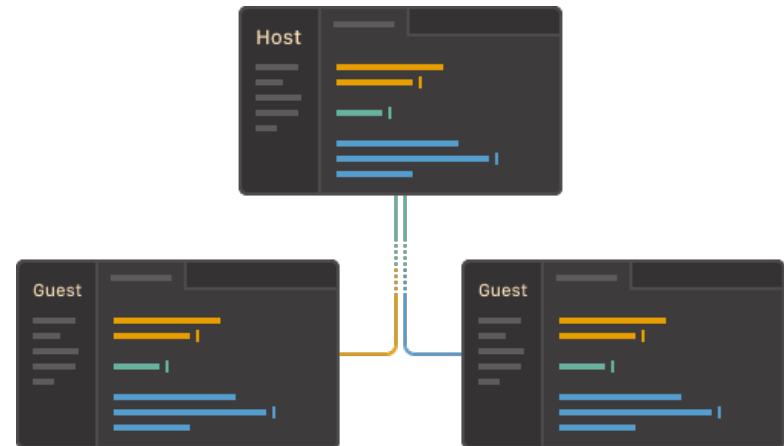


Google's Colaboratory

- Stored in Google Drive and shared like Docs and Sheets
 - More information: <https://colab.research.google.com/notebooks/welcome.ipynb>
- Jupyter notebook environment (think Overleaf for Jupyter notebooks)
 - Supports both Python 2 and 3
 - Runs many standard packages, supports Tensorflow
 - <https://colab.research.google.com/notebooks/gpu.ipynb>
 - Installing new packages is easy
 - https://colab.research.google.com/notebooks/snippets/importing_libraries.ipynb
- We already used this in Kirsten's tutorial notebook (see Slack link)

Atom

- Hackable text editor
 - <https://atom.io/>
 - <https://github.com/atom>
- Offers real-time collaborations with package Teletype



How to share or collaborate?

Share a portal



- Click this icon in the Atom status bar
- Allow access to your GitHub and get a token to enter into Atom (if haven't linked yet)
- Click the share button/switch to generate a portal ID
- Invite people to join your portal by sending them your portal ID

Join a portal




- Get a portal ID from someone
- Click this icon in the status bar
- Click to join a portal, and enter the portal ID

Let's try it!

- First, we will all join in on my portal (find key code in Slack)
- Find the file with your name, open it
- Add your snippet of code to the collaborative Atom document `demo.py` under the comment containing your name
- Now let's run the code (**atom-runner** package to run Python within Atom)

Portal Generation & Invite

- If there's time, let's have everyone try out generating a portal through Atom
 - Click this icon A dark square icon containing a white stylized letter 'A' with two curved lines above it, resembling a signal or share symbol.
 - Connect your Github with an authentication key (if not connected already)
 - Grab a document, or open a new one and write a message
 - Toggle the share button to generate a link
 - Send the key to someone (or a channel) on Slack
 - Copy someone else's key and enter it, leave a message on their document