Interactive Visualization with iPython and Jupyter Notebook

Teodora Szasz, Ph.D.

Image Analysis & Data Visualization Specialist

tszasz@uchicago.edu

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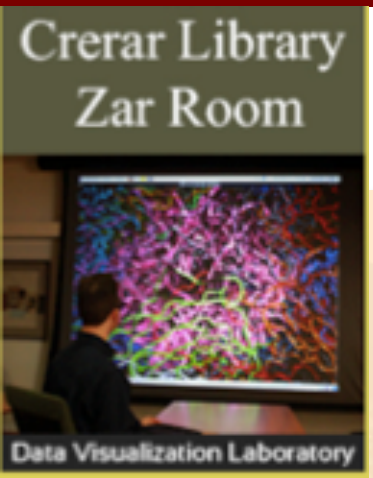
RCC: Who we are

- The Research Computing Center (RCC) is a unit under the Office of the Executive Vice President for Research, Innovation and National Laboratories

- RCC is dedicated to providing the University of Chicago community a full-service high-performance computing (HPC) center
  - Managing university's largest supercomputer called Midway

- A team of computational scientists, application developers, and research programmers assist you to effectively utilize our computational resources

RCC: Where we are



Located at:

5607 S Drexel Avenue

Zar Data Visualization Lab

Walk-in

Consultants @

Regenstein room 216

Contact us:

email: help@rcc.uchicago.edu
Web: rcc.uchicago.edu
Phone: 773-795-2667

Data Center @ 6045 Kenwood

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Getting started with Jupyter Notebook and IPython

- **Python**
  - **powerful** and **flexible** language
  - one of the leading open platforms for **data science** and **high-performance** numerical **computing**

- **IPython = "Interactive" Python on Notebook**
  - runs on browser
  - unified web interface: code, text, mathematical equations, plots, graphics, and interactive graphical control into a single document

Launching Jupyter Notebook

- **Midway users**:
  https://jupyter.rcc.uchicago.edu/hub/login

- **Try Jupyter online**:
  https://try.jupyter.org/

- **Installing Ipython (homework)**:
  https://ipython.org/install.html

Downloading the notebooks

- **(on Midway) use your home directory**
- **git init**
- **$ git clone https://github.com/rcc-uchicago/workshop_IPython**

Manual download:

- https://github.com/rcc-uchicago/workshop_IPython
- Click on