Jeffrey Tharsen tharsen@uchicago.edu

“Advanced Interactive Visualizations for Data Analysis (Bokeh + TensorSpace)” RCC Workshop

Winter 2021

***Sources:***[*https://github.com/rcc-uchicago/vis-for-data-analysis-bokeh-tensorspace/*](https://github.com/rcc-uchicago/vis-for-data-analysis-bokeh-tensorspace/)

**Connect to Midway via ThinLinc** : <https://midway2.rcc.uchicago.edu/>

**I. Midway setup : public\_html**

cd /home/[CNet ID]

mkdir public\_html

chmod -R 755 public\_html

*Example URL from my webshare on Midway:*

<https://users.rcc.uchicago.edu/~jcarlsen/bokeh/bokeh_example1.html>

**II. Bokeh (Python / Anaconda3)**

**Web links (Gallery and User Guide) :**

<https://docs.bokeh.org/en/latest/docs/gallery.html>

<https://docs.bokeh.org/en/latest/docs/user_guide.html>

**In the Terminal**:

module load python

pip install --user bokeh

git clone http://github.com/rcc-uchicago/vis-for-data-analysis-bokeh-tensorspace.git

cd vis-for-data-analysis-bokeh-tensorspace

jupyter notebook

**Open File : bokeh\_examples.ipynb**

**III. rBokeh (R / RStudio)**

**In the Terminal**:

module load rstudio

rstudio &

**Open File : rBokeh\_examples.R**

\* \* \*

**IV. TensorSpace : Interactive analysis of Neural Networks**

**Website** : <https://tensorspace.org/>

**Playground (Examples)** : <https://tensorspace.org/html/playground/index.html>

**Github** : <https://github.com/tensorspace-team/tensorspace>

**Interactive Handwriting Analysis** : <https://tensorspace.org/html/playground/lenet.html>