Why do we need Julia?

* Easy to learn
* Powerful for linear algebra
* Compiled 🡪 faster than python or r

Syntax

* Like python

Network science

* Linear algebra
* Stored in compressed form called compressed form comma
* Sparse matrix
* Real world graphs

Problems on graphs

* Recommend movies
* Ranking (page rank)
* Exploratory data analysis

Linear systems

* Ax = b

Seeded page rank

* How do you rank the remaining nodes of the network

<https://juliabox.com/notebook/notebooks/tutorials/introductory-tutorials/broader-topics-and-ecosystem/intro-to-julia-for-data-science/1.%20Julia%20for%20Data%20Science%20-%20Data.ipynb>