Introduction to Data Science

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Languages for Data Science

- Python & Perl
- R
- MATLAB
- SQL
- Ruby

R …

- Helps to perform actions on data
- Provides features to do this conveniently
- Acts as a glue language to tie together code in multiple languages
- Helps to quickly prototype an idea
- Not well suited for concurrent programs, multi-threaded applications
- Has a lot of specialized libraries for data science (e.g., NumPy, SciPy)
- Provides **DataFrame** to provide structured data (e.g., pandas)
- Provides plotting tools (e.g., matplotlib)
- Provides notebook facilities (e.g., iPython, JuPyter)

Basics of R