

# Pandas

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## SYSTEM INFO

### Upcoming events

Feb-20: RC Maintenance and Jumbo runs  
continue

### Current Issues

There are currently no open issues



- [www.rc.colorado.edu](http://www.rc.colorado.edu)
- JANUS ~16000 cores



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## Python HPC

Learning Python for Scientific Computing Applications

- Learn more about when and where we meet by joining the [University of Colorado Computational Science and Engineering Meetup](#)  
<http://www.meetup.com/University-of-Colorado-Computational-Science-and-Engineering/>
- You can download all of the examples and slides from our [GitHub Repository](#)

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## Support

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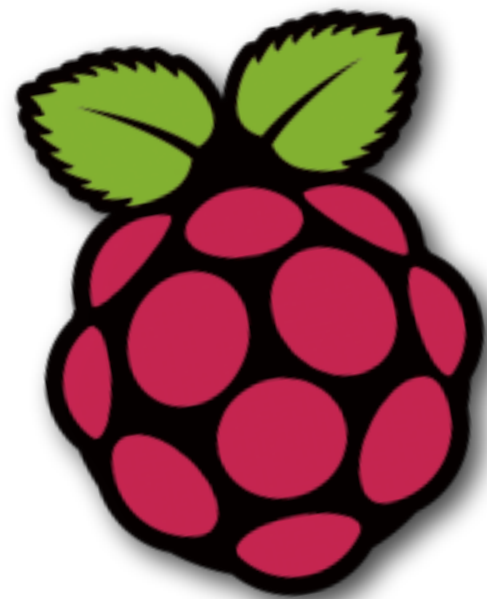
[MPI](#)

[Hybrid OpenMP MPI](#)

[Valgrind](#)

# Outline

- Python in the news
- Pandas
  - pandas\_overview (boring)
- Pandas, by example
  - movies
  - bitly
  - benchmarks
  - collectl
- Homework
  - Which highly rated movies do men and women disagree on the most?
  - What is the most popular browser?
- Wrap up



# Pandas



# Data Analysis

- What does data analysis mean to you?
- What software do you use?

# Pandas

- Data tables, time series
- Merging and joining data
- Aggregation
  - group by
  - pivot tables
- Deal with missing values
- Plotting



# Examples

# Wrap-up

- Pandas
  - Series and Data Frame
  - Merge
  - Aggregation
  - Filtering
  - Plotting