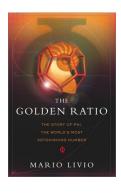
CS112 Retrospective & the Future



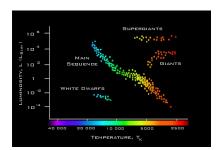
CS112 Scientific Computation Department of Computer Science Wellesley College

Assignment #1: Golden Ratio, Olympics, & Stars

- · Variables and assignment
- Mathematical computations
- Vectors
- Plotting

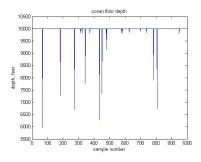


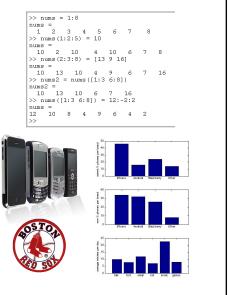




Assignment #2: Conditionals, Colon Notation, Analyze/Visualize Ocean/Smartphone Data

- · Conditionals
- · Cell arrays
- · Indexing & colon notation
- Logical values and expressions
- · Data analysis and visualization





Assignment #3: Mystery, Thatcher Illusion, Gradesheets, Energy Data & Face Recognition

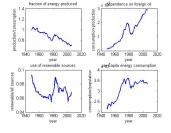
- Matrices
- · Real and synthetic images
- · Tables of data
- Image processing

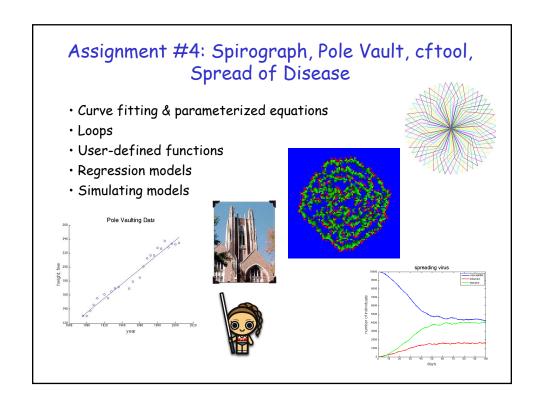


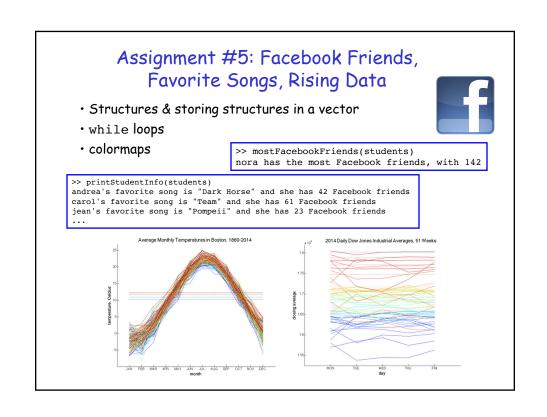






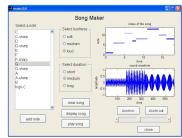


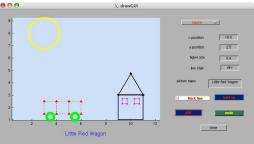




Assignment #6: GUI Sketchpad & Making Music

- Structures
- · Graphics handles
- Properties
- · GUIs
- · Layout editor





Assignment #7: Thumbnails & Parlez-vous Français?

- · Reading/writing files
- Working with directories
- Analyzing textual data
- · Cell arrays
- Frequency statistics









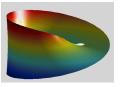
Spanish	19.19	entre broma y broma, la verdad se asoma
German	36.33	viele koche verderben den brei
Finnish	21.68	ihmetapauksiin voi toivoa mutta ala luota niihin
French	13.03	il faut battre le fer pendant qu'il est chaud
English	10.55	this great english sentence is too long and trite

English 10.55 this great english sentence is too long and trite

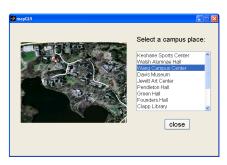
Italian 10.26 con piacere colgo l'occasione di ringraziare tutti gli amici italiani che con i loro consigli

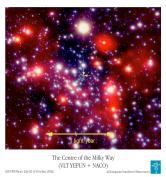
Assignment #8: Mobius Strip, Campus Places, Reaching for the Stars

- Types of numbers
- Color images & colormaps
- · 3D visualization



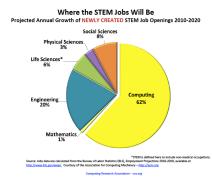


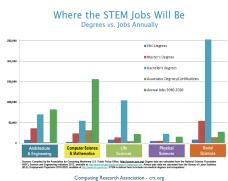




What else is there in C5?

- Having taken CS112, you have the tools to solve fundamental problems with computer programs
- In future computational courses, you can investigate more complex and creative problems





5

