Final Project

PHY494 Computational Methods in Physics (2016)

Requirements

- team (3)
- GitHub repository
- keep "lab notebook" on wiki page
- final poster presentation
 - abstract, poster as PDF
 - description of contributions (PDF)
 - individual Q&A

Grading

- code, achieves objectives (30%)
- teamwork (contributions, commits, evidence of communication) (10%)
- keep "lab notebook" on wiki page (5%)
- final poster presentation
 - abstract (5%)
 - poster (20%)
 - individual Q&A (30%)

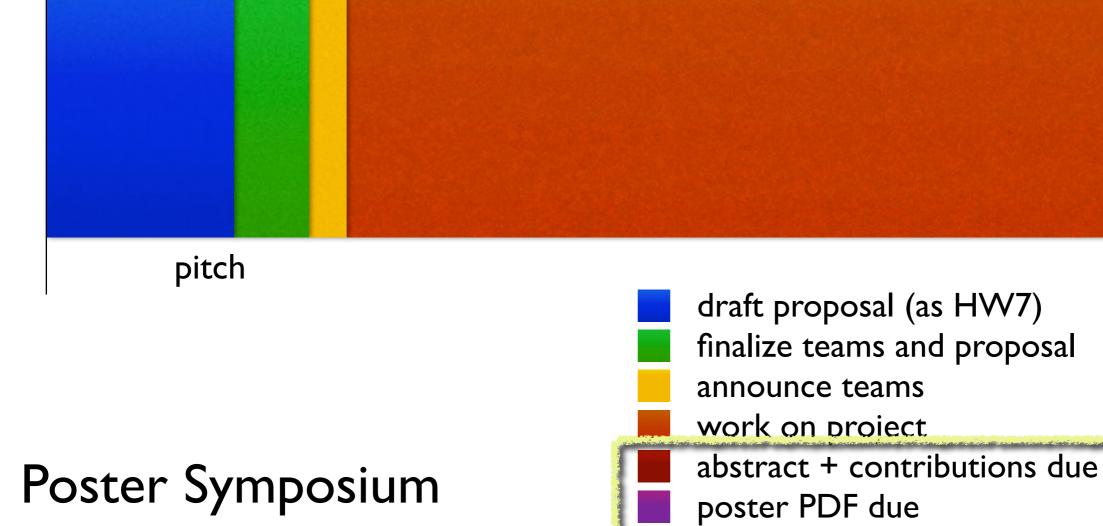
Projects

All projects are public on https://github.com/ASU-CompMethodsPhysics-PHY494

Time line

poster symposium





04/07

04/05

03/3I

Abstract

- I abstract per team
- include title, authors, text
- maximum 200 words
- use the template in poster/abstract.txt
- due: 5/3/2016 11:59pm (submit through repository)

Abstract

- What was the problem to be solved?
 Background and why is it interesting? What are the major hurdles? What was your goal?
- How did you approach the problem, what methods did you use (keep high level, don't list code or function names)?
- What are the results and what do they mean?
 Was the goal achieved?
- Conclusions/future work (I sentence)

Abstract

- How to get the code?
 - "Code is available at <GitHub URL>"
- Optional: License your code (see http://choosealicense.com/):
 - "under the <LICENSE>."

Contributions

- submit a file poster/contributions.pdf detailing who did what (plain text file is also ok)
- use GitHub usernames instead of real names
- submit together with the poster

Poster PDF

- submit a PDF of your poster through your
 GitHub repository as poster/poster.pdf
- due: 5/4/2016 | 1:59pm
- either I page PDF (full poster) or multipage (if poster will be assembled from pages)

Poster Session

- 5/5/2016
- PSH 355
- I1:30am 2pm
- all team members must attend
- individual Q&A at board (<10min) will constitute the individual component of your grade
- lan and David will also do Q&A but their comments to me about you can only improve your grade.

Poster

- poster boards: 30 x 40 in
- portrait or landscape
- print poster (expensive) or assemble from individual pages
- mounting material (boards, tape, ...) will be provided

Poster: Required

- title
- names of authors
- repository URL
- Acknowledgements section (if help from outside of team)

Poster: Recommended

I. Background (WHY?)

problem, equations to be solved, motivation

2. Methods (HOW?)

algorithms, parameters, code snippets, flow diagrams, object diagrams, libraries used, ...

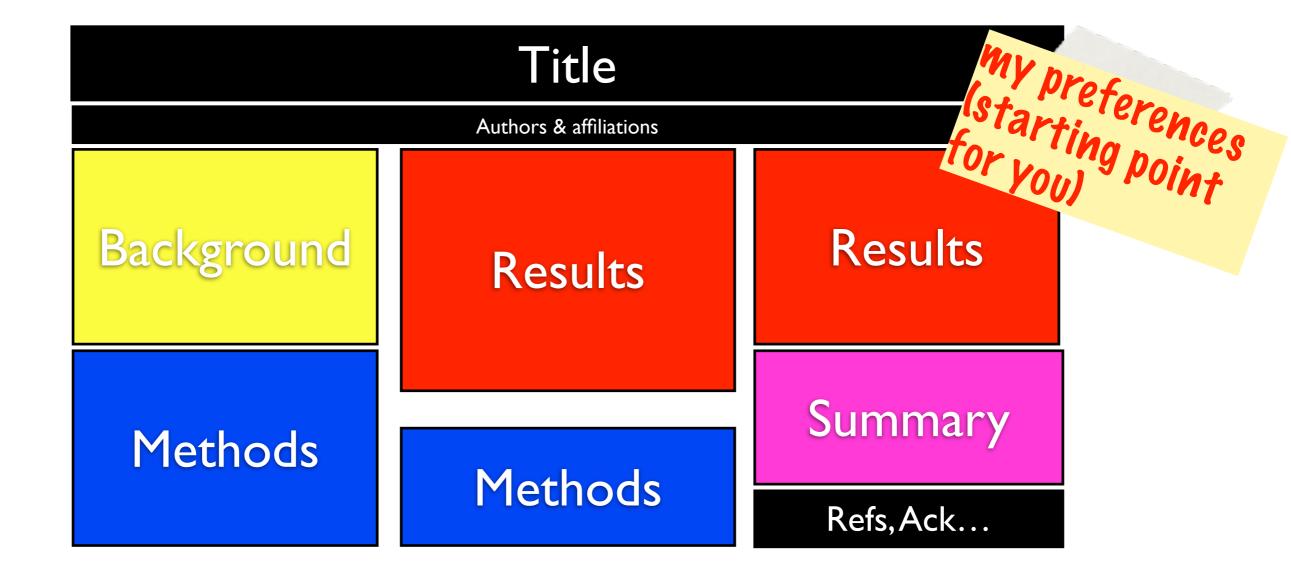
3. Results (WHAT?)

focus on graphs, images and tables: show data (only little text to annotate data)

Poster: Recommended

- 4. Conclusions or Summary
 - ~I paragraph text summary + future work
- 5. References (if any)

Small print section... paper references, URLs, ...



- tell a **story** (beginning, middle, end)
- poster + you = poster presentation
 (does not have to make sense without you)
- add what you need illustrate your story





- sans serif fonts (Helvetica, Gill Sans, Optima, Arial, ...)
- font sizes

title	64 pt
authors	42 pt
headings	40 pt
text	30 pt
references, acknowlegements	I5 pt

Tools

- full size poster (vector graphics tools): Inkscape,
 Adobe Illustrator
- individual pages posters: whatever you use to make presentations (LaTeX, Powerpoint, OpenOffice, Keynote, ...)