

# 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

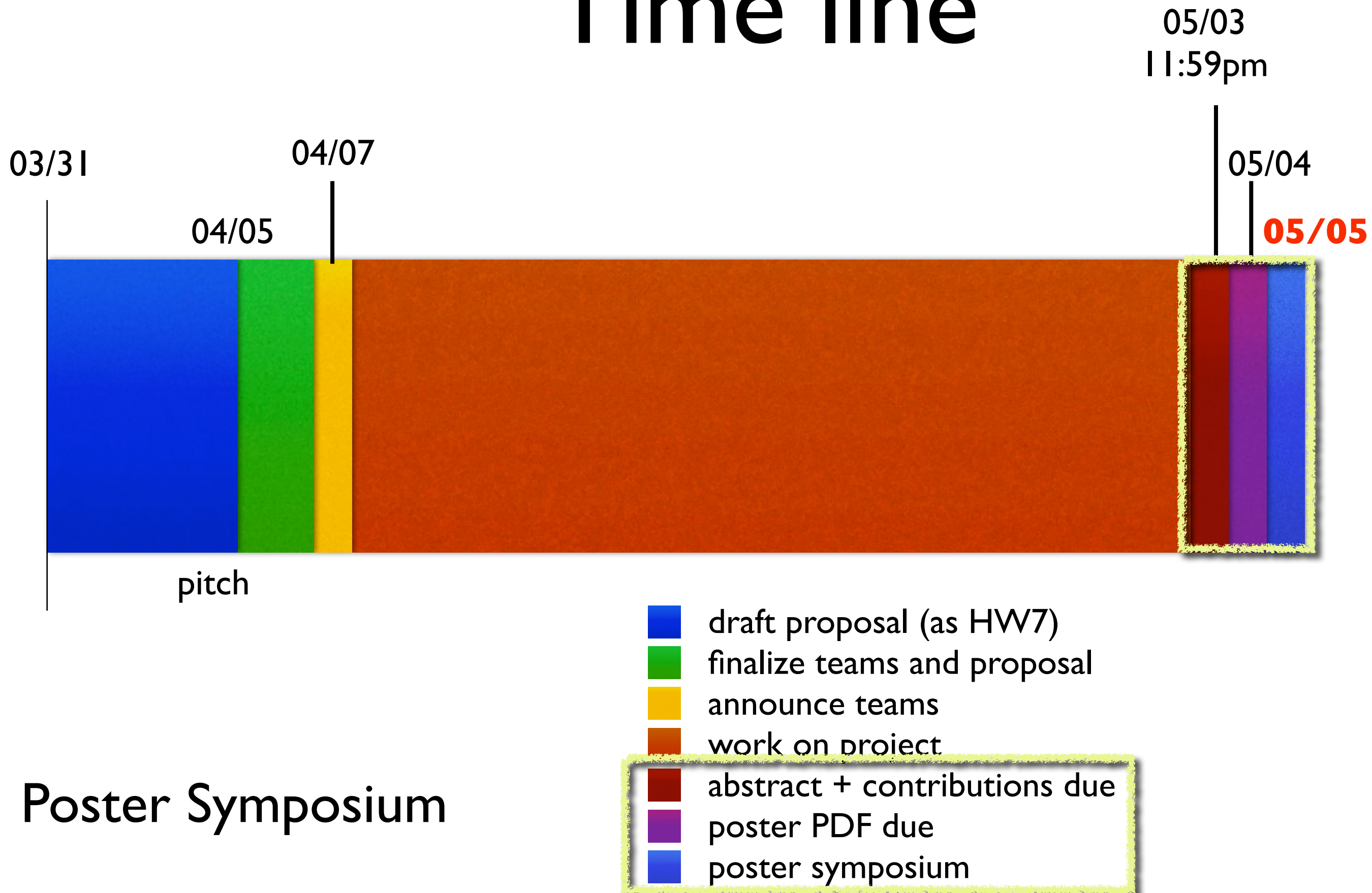
# Grading

- 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](https://github.com/ASU-CompMethodsPhysics-PHY494)

# Time line



## Poster Symposium

# Abstract

- 1 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 (1 sentence)

# Abstract

- How to get the code?

“Code is available at <GitHub URL>”

- *Optional:* License your code (see <http://choosealicense.com/>):

“under the <LICENSE>.”



# Poster PDF

- submit a PDF of your poster through your GitHub repository as `poster/poster.pdf`
- due: `5/4/2016 11:59pm`
- either 1 page PDF (full poster) or multi-page (if poster will be assembled from pages)

# Poster Session

- 5/5/2016
- PSH 355
- 11:30am – 2pm

- all team members must attend
- individual Q&A at board (<10min) will constitute the individual component of your grade
- Ian 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

## 1. 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)

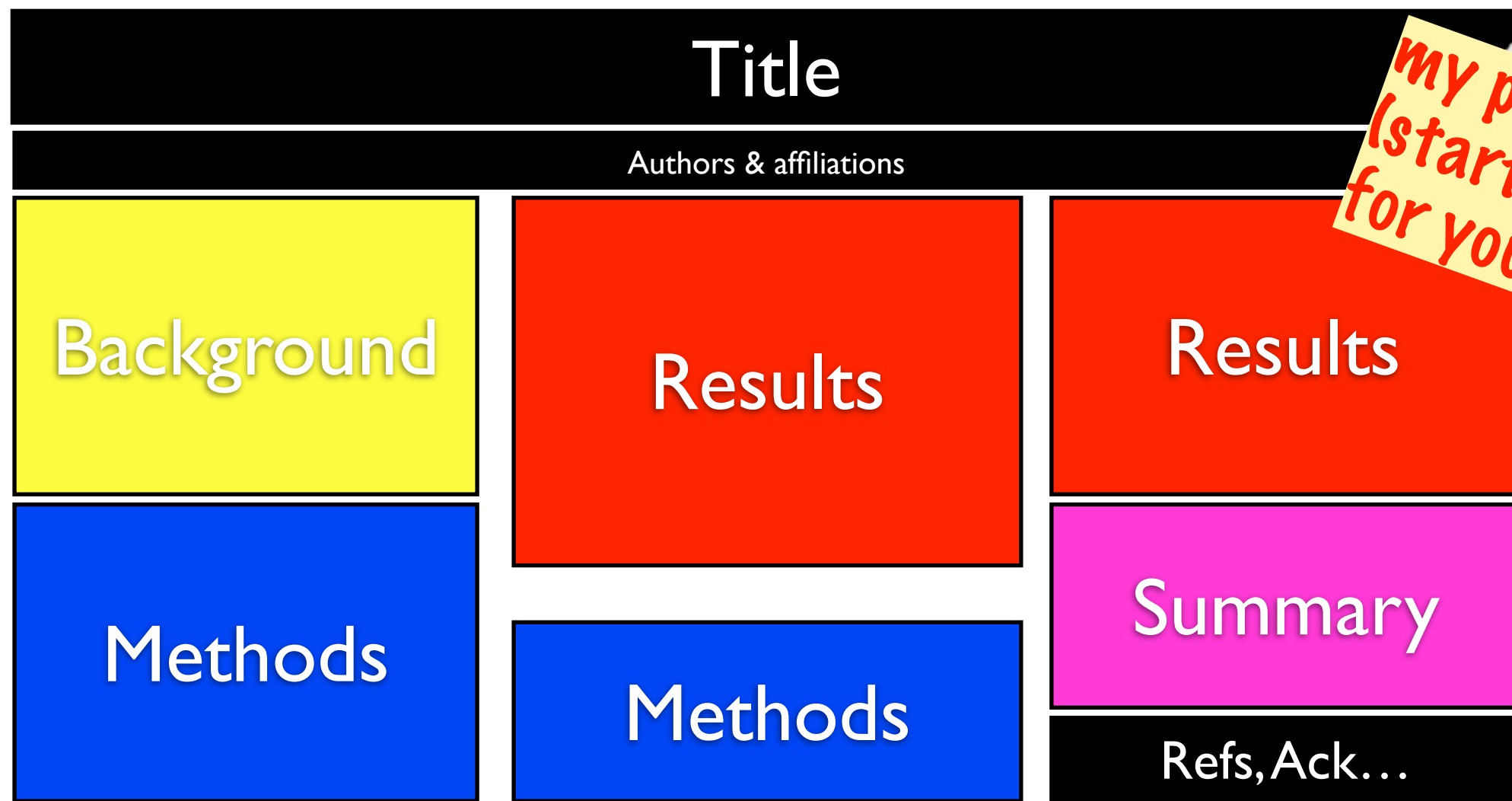
# Poster: Recommended

## 4. Conclusions or Summary

~1 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

# Typography

*my preferences  
(starting point  
for you)*

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

title	64 pt
authors	42 pt
headings	40 pt
text	30 pt
references, acknowledgements	15 pt



# Tools

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