Project Proposals - 18.337

October 2, 2018

1 Introduction

The purpose of the project component in this course is to help you use Julia in your work. We encourage you to propose a project involving your own research, or even a project you need to do for another course.

1.1 List of Dates and Deadlines:

1. Project Proposal: 11th October.
2. Mid-term progress: 26th October.
3. Final project presentations: To be announced. Will be the last few days classes.

2 Form Teams and Outline Project Proposal

First, you must form teams of maximum 3. Next, you must come up with a **2 page proposal** detailing a project. It should have the following components:

1. **Introduction and Background**: Introduce the problem and provide a brief description with the assumption that the audience has no prior knowledge of your domain or your problem. This is mainly for the TA's to understand what you're doing so they can help you better.
2. **Problem Statement**: Articulate the objective of your project here.
3. **Scope and Importance**: Why is this problem important/interesting? What is the core contribution?
4. **Software**: List the Julia packages that you plan to use, if any. If you're implementing a new algorithm from scratch, comment on whether you can generalize your code so others working in your domain can use it. **This is highly encouraged.**

   Deadline: October 11th, report to be submitted and presented to the TAs. Book a slot for your presentation on this form.

3 Mid Term Progress

Teams are also required to give an update on their mid-term progress. By this time, teams are expected to have some code up on a GitHub repository with documentation.

   Teams are then required to present to the TA's a simple demo of the code. List any difficulties or challenges you faced during this time.

Deadline: October 26th, live demos to the TA's. More information on the format of this demo will be announced on Piazza.

4 Final Presentation

Teams are then required to have present their work during some of the final classes. More information on the format of the presentation, the dates for each team, etc., will be released in a separate announcement.