

## Checkpoint #2

At this point, you should have a rough draft of your project. This means that you should be able to run your code and make it do (most of) what you have set out to do in the proposal and the first checkpoint. Stop by office hours in Lally 314 on Wednesday December 4<sup>th</sup> or on Friday November 6<sup>th</sup> after class at the latest and demo your code.

The checkpoint is worth 10% of the project grade. If there is no rough draft or you miss the checkpoint, I'll mark a low grade for checkpoint #2.

This is an opportunity to talk through your project and see if you can improve its design. Here is a rough checklist of the grading rubric I'll be using for the final project submission:

### Correctness

- Does it work?
- How difficult is the project?

### Design

- Decomposes problem into modules.
- Defines appropriate data structures.
- Uses nontrivial **purely functional** algorithm.
- Uses abstractions we've covered in class such as Monoids, Foldables, Functors, Applicative functors, and Monads (other than IO). Most of you do have a parsing component so you will be using at least State and Parser. Use of these abstractions is not required; however, it is strongly recommended.
- Uses abstractions such as higher-order functions (such as map or fold). We would like to see appropriate type classes and instances of type classes.

### Testing

- Unit tests, preferably using some framework
- Properties and property tests

Adapted from a writeup by Stephanie Weirich.