

CIS 5520

Advanced Programming

Fall 2024

- Sit anywhere
- Introduce yourself to your table
- Finish quiz on Gradescope
- Accept invitation to Github organization
- Catch up on last week's material



Announcements: last week

- Keep up to date: slides, completed module and recording available for review
 - <https://www.seas.upenn.edu/~cis5520/current/schedule.html>
 - link to completed module becomes valid after class
 - class recording automatically uploaded Canvas

Announcements: This week

- Today: Higher-order functions
- Wednesday: *in-class* exercise **Foldr**
 - Optional practice *before* class: SecretCode [no prior FP experience]
 - Optional extension during/after class: Sum
- Thursday: first assignment due!
 - Read instructions on website, not just in comments
 - See instructions on how to access repository
 - git pull for minor edits
 - Submit on gradescope (can work in pairs)

Coming up!

- New module (Datatypes) available on github (03-trees)
 - Quiz due Monday!
- HW #2 available Monday
 - must be part of Github organization, if not yet let me know
 - random partners
 - covers Datatypes/Trees and Type Classes
 - due September 26th

HigherOrder: discussion plan

- Syntax
 - partial application, anonymous functions, ($\$$), infix application, operator sections
- Quiz discussion
 - ex1, listIncr', len'
- *5-min break*
- Map: shiftPoly'
- Foldr: filter

More questions?