Programming, Problem Solving, and Algorithms

CPSC 203, 2024 W2 (January – April 2025) Ian M. Mitchell Lecture 07

Announcements

- Course web page: https://ubc-cs.github.io/cpsc203/
 - Weeks 1 3 are updated, week 4 is underway.
- Starting this week: Pre-lecture videos
 - Webpage has checklist to track your own progress
- Assessments:
 - Lab 3 (data classes) underway
 - POTW 3 extended to next Sunday
 - POTW 4 due next Sunday
 - Test 2 this week (practice test 2 is available)
- Tech stack: If at first you don't succeed... ask for help.

CPSC 203 weekly schedule

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Lectures	videos	12:30 – 14:00	videos	12:30 – 14:00			
Labs	Noon – 13:30 16:00 – 17:00	14:30 – 17:00 17:00 – 20:00		Due @noon	Look over the lab		
POTW	Five problems, five days						Due @noon
Tests in CBTF (~bi-weekly)	Last day to take the test			Slots availat	CBTF closed		

The three projects are multi-week assessments with their own schedules

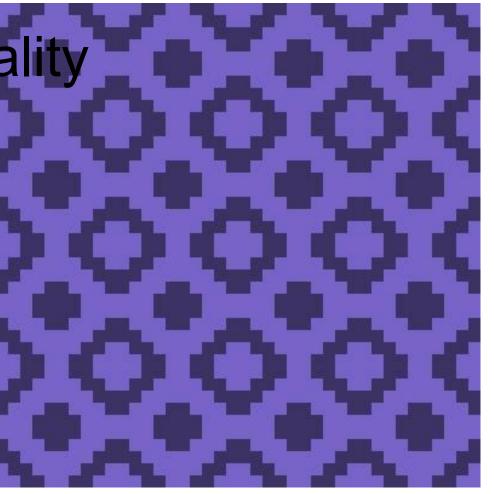
Today's Plan...

- 1. Announcements!
- 2. Knitting data classes
- 3. Pandas?

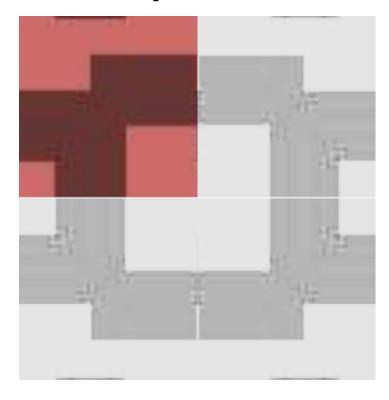
Slides from the Assigned Videos

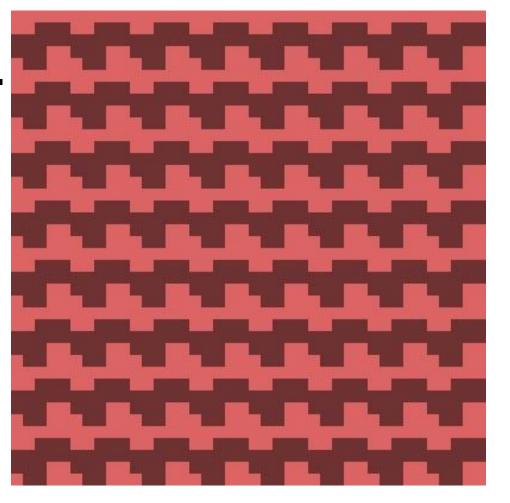
Adding Functionality

Creating blocks is an arduous task.
We'd like a way to make new blocks
out of old ones! How many different
kinds of blocks are found in this
image? How are they related to one
another?



Example block...



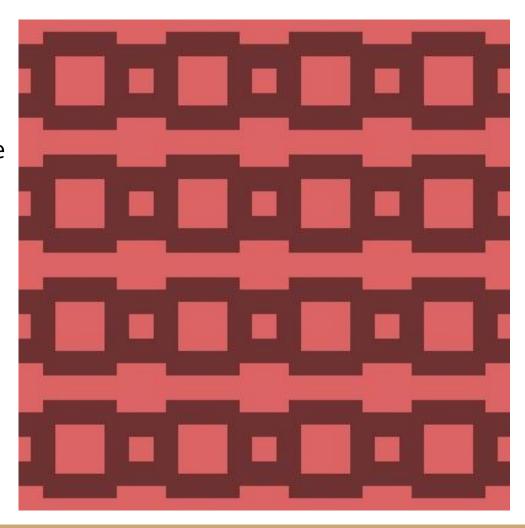


A Block Pattern

We can use that one block to create a surprising pattern!

TODOS:

- 1. Write flippy member functions
- 2. Use them to create patterns



A Block Pattern

Positions:

Row

Column









