



**Remind you of
anyone's code?**

Yours?

Lecturing without a mask

- BC public health order for universities permit the presenter to **remove their mask while teaching** if there is 2 meters separation
 - After lecture, please ensure I have my mask on before coming up to ask questions (and we'll still 'socially distance' then too!)
 - May be best to keep front row clear, depending on class attendance

Exemptions from use of face coverings – post-secondary staff persons

- 8** Section 6 (2) does not apply to a post-secondary staff person as follows:
- (i) If the post-secondary staff person is delivering a presentation or lecture or teaching if
 - i. there is a distance of two metres separating the post-secondary staff person and students or
 - ii. if there is a physical barrier between the post-secondary staff person and students.

A pandemic changes everything

- How are you feeling?



A word cloud of various emotions in different colors and sizes. The words are: Apprehensive (yellow), Excited (blue), Calm (light blue), Fine (pink), Good (blue), Ecstatic (pink), Great (black), Drained (green), Tired (blue), Swell (purple), Nervous (yellow), Fantastic (green), Yes (green), Nervous (yellow), Alright (blue), and good (green).



Layers of Protection

Vaccine Layer

- **Vaccinations are critical**
 - Vaccines greatly reduce the risk of infection, hospitalization, and death
 - If you are medically able to, please get vaccinated;
Google "**BC Covid vaccine**"
 - My kids are not eligible for the vaccine; I am counting on everyone here to get the vaccine to keep me safe, which keeps them safe.



Mask Layer

- **Masks**
 - **Must** wear masks during lecture
 - **No eating/drinking**
 - Exemptions issued by SFU; instructor notified

Apply at:

cal_admin@sfu.ca

student_support@sfu.ca

Those without masks may have exemptions

HOW TO WEAR YOUR MASK

CORRECT:



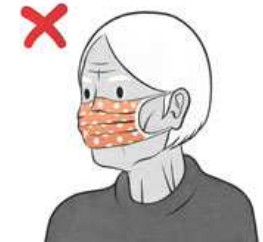
Cover your nose and mouth completely all the way down under your chin.

Clean your hands before touching the mask, and before and after removing the mask. Don't share your mask with others.

INCORRECT:



DON'T: Wear the mask under your nose.



DON'T: Leave your chin exposed.



DON'T: Wear the mask under your chin on your neck.



DON'T: Let children under 2 years old wear masks.

Stay-home Layer

- Stay home if you need to, or should!
 - Feeling a little sick? Covid, cold or the flu!
Just stay home and watch the video too!
 - Need to isolate?
 - No exemption and unwilling to wear a mask?
- If I'm sick, I'll cancel lecture or record a video

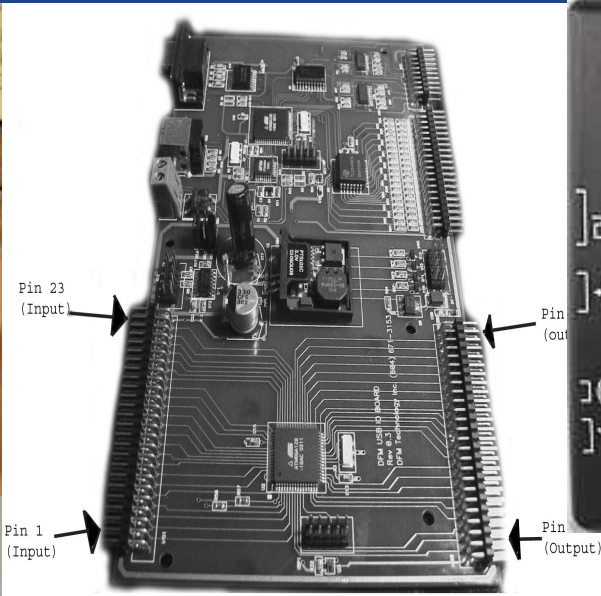


About Me



Instructor: Dr. Brian Fraser

- I like questions, and love feedback!



About Me

- **Home Town:** Surrey!
- **Degrees:** BSc & PhD from SFU (AI)
- **Favourite Video Game:** StarCraft 2, WoW, Valheim
- **Family:** Married with 2 girls (4y & 6y)
- **I miss the most during isolation:** Conversations with friends, colleagues, and students!



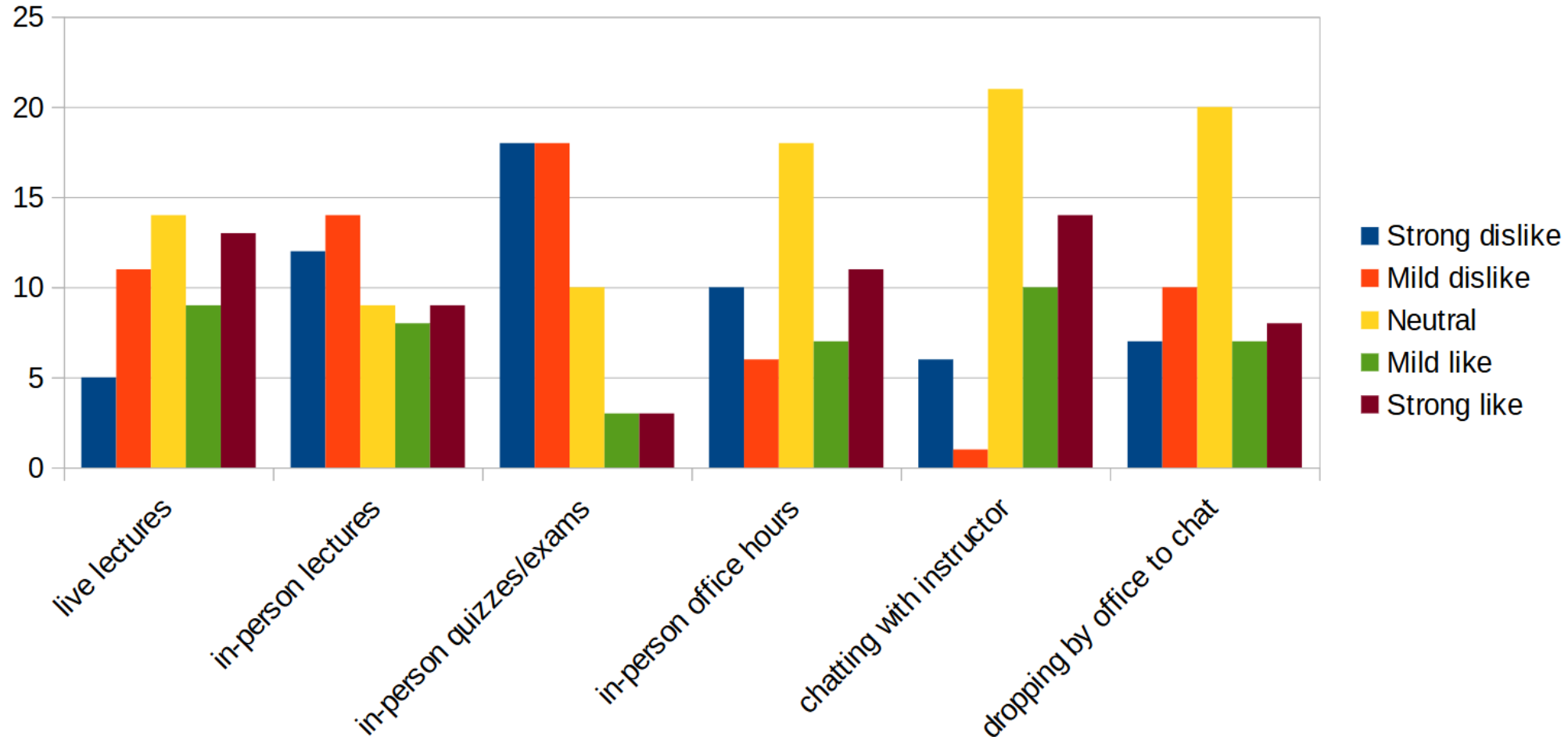
Daughter's biggest worry about my online teaching.



Course Design

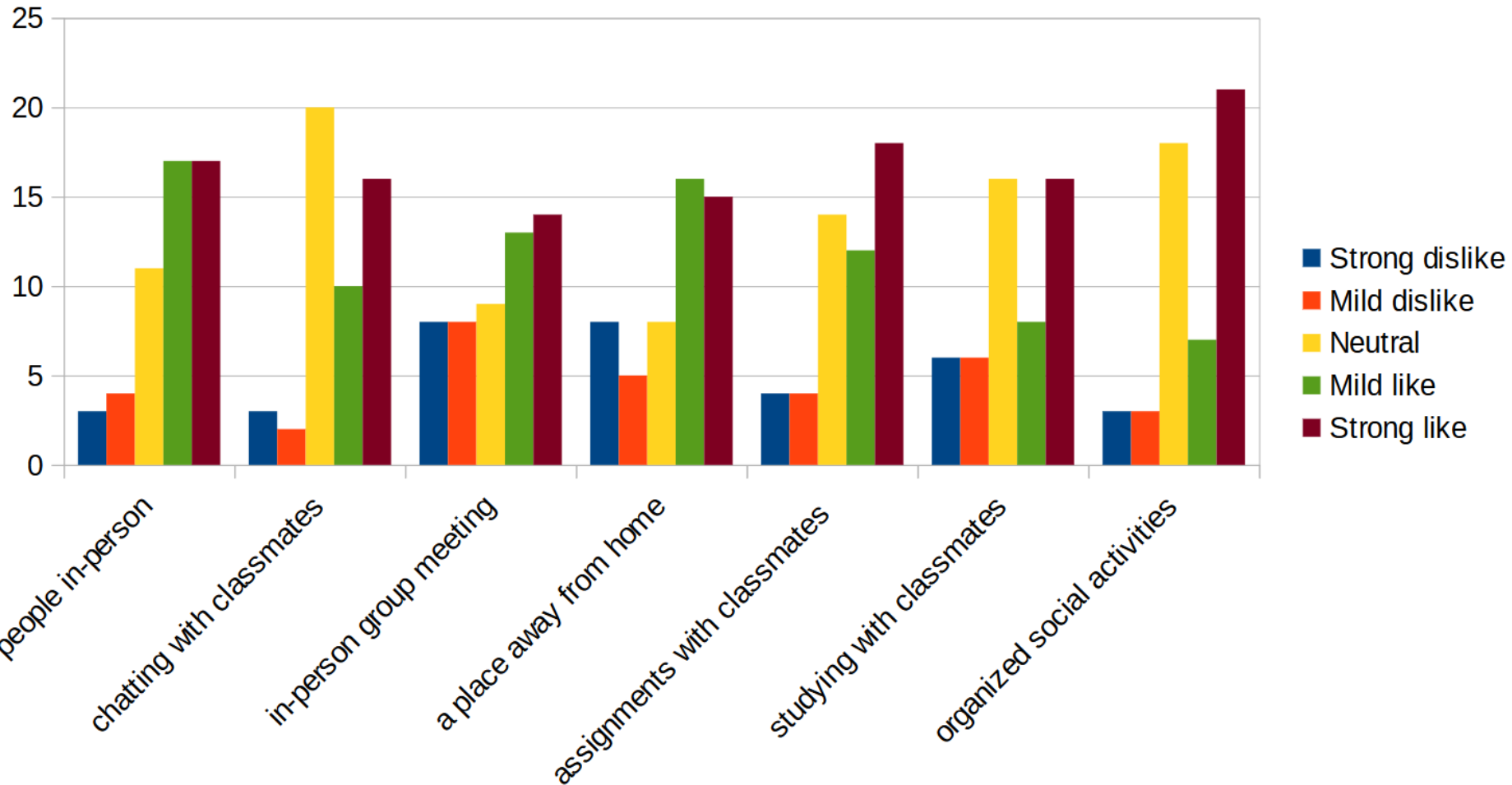
Student Priorities

Q1. Rate how much you like the following options for how a course is delivered:



Student Priorities

Q2. Rate how much you like the following social aspects of in-person learning



Lectures & Tutorials

- **Course is optimized for in-person lectures**
 - I'll be here teaching during lecture times
 - Lectures recorded; link on course website
- **Tutorials are for the project**
 - If you are in an “online” group, join via a Zoom link
 - If you are in an “in-person” group, you should attend in person to be with your group, Zoom OK if needed (sick, etc).
 - You do not need my permission to attend via Zoom. You just need to make it work with your team.
 - Tutorials will **not** be recorded.

Evaluations

- **Project and exercises heavily weighted**
 - Marks can be high because of this practical focus
 - **Letter grade thresholds are higher than some courses**
 - Anything 50% or greater is a D or better (pass)
- **Concessions:** Request for a concession via departmental form on website

Evaluations

- ~5 Quizzes: 20%
 - Announced ahead of time
 - **All quizzes done online**
 - During class time

Exercises and Readings

- ~4 Exercises: 8%
 - Help everyone quickly learn the tools such as Git, Junit, and others.
 - Late: 5% per calendar day; max 4 days late
 - 1st due next week; 2nd due week after
- 6 Readings: 12%
 - Every 2 weeks; hand in written “responses”
 - See web for marking/chapters. 1st due next week!
 - In-class discussion of thoughts.

Project

- **3 Iterations: 60%**
 - I make 8-person groups
 - Students provide input on type of group desired:
 - Standard:** Expecting in-person interactions; expected to be in class
 - Online-only:** Expecting on-line interactions; all meetings via Discord/zoom/etc.
 - Individual grades for contributions to project; plus peer feedback & evaluation
 - **Real customer (hopefully!);** hope projects released under permissive license.
 - Code may be **discussed** ‘anonymously’ **in class**.
 - I make projects happen, not know all answers.

Guide to Course

Getting Help

- Use course Piazza forum to:
 - ask instructor about lectures
 - ask customer about projects
- Use Instructor and TA Office Hours
 - All online via discord
 - Link on website
 - Can chat to me from outside my office; to show me code use discord (QR code on door!)
 - TA Tutoring

Guide to Slides

- Take notes of
 - Sweep-in Text: Blanked out text.
 - Extra content not on slides:
 - Notes on board, in-class examples
 - Some notes in slide deck; some written real-time
- Joke
 - If you put a million monkeys at a million keyboards, one of them will eventually
 - ..
 - ..

Lecture & Online Expectation

- Only one thing
 - Texting / Talking
 - Use a positive tone for all communication (asking questions, on Piazza forums, with TAs)
 - Anon trolling hurts someone. It won't be tolerated.
 - Students have wide range of backgrounds; respect it
- If sending an email
 - Give a little context (class, your name; topic, ...)
 - Email: If you are sending more than 2 a week, may be too many.

Discussion

In groups of 3 to 4 people:

- Exchange **email address**;

- Answer the following:

1. Should you usually spend more time making your code **more efficient** or **more readable**?

2. What are some ways to make your code **more maintainable**?

You already know:

- Java, or C++ (and are eager to learn Java, or...).
- 2nd Year Software Development
 - Data structures
 - Some team work
 - Some OOD
- You don't have to be a coding guru.
(but try to become one this semester!)
- If you don't, please come talk to me!

Course Information

<https://opencoursehub.cs.sfu.ca/bfraser/grav-cms>

Course Objective

- Goals

- ..

- Scrum process
 - Tools like GitLab, JUnit, IntelliJ, etc.

- ..

- OOD design
 - design patterns

Project Overview

- Each team given a project topic
 - Real external customer, or me as customer.
 - First tutorial is with customer to gather project requirements
- 3 iterations using Scrum (Agile)
 - in tutorial (or pre-recorded) demos & customer feedback
 - in lecture retrospectives
- Each student responsible for have something “reasonable” to work on.

Project Overview (2)

- **Peer Evaluations**

- Done at end of each iteration
- Formative pseudo-anon feedback
- Some affect on grade

- **Tutorials**

- Time with customer or team time
- May do stand-up meeting
- Get feedback on what to do next, what to focus on
- Get technical advice (from TA)

Project Technical Points

- **Languages**

- Default languages: Java (backend) and TypeScript (web) unless team and I agree otherwise (email/Piazza me)
- May not use JavaScript (use TypeScript)

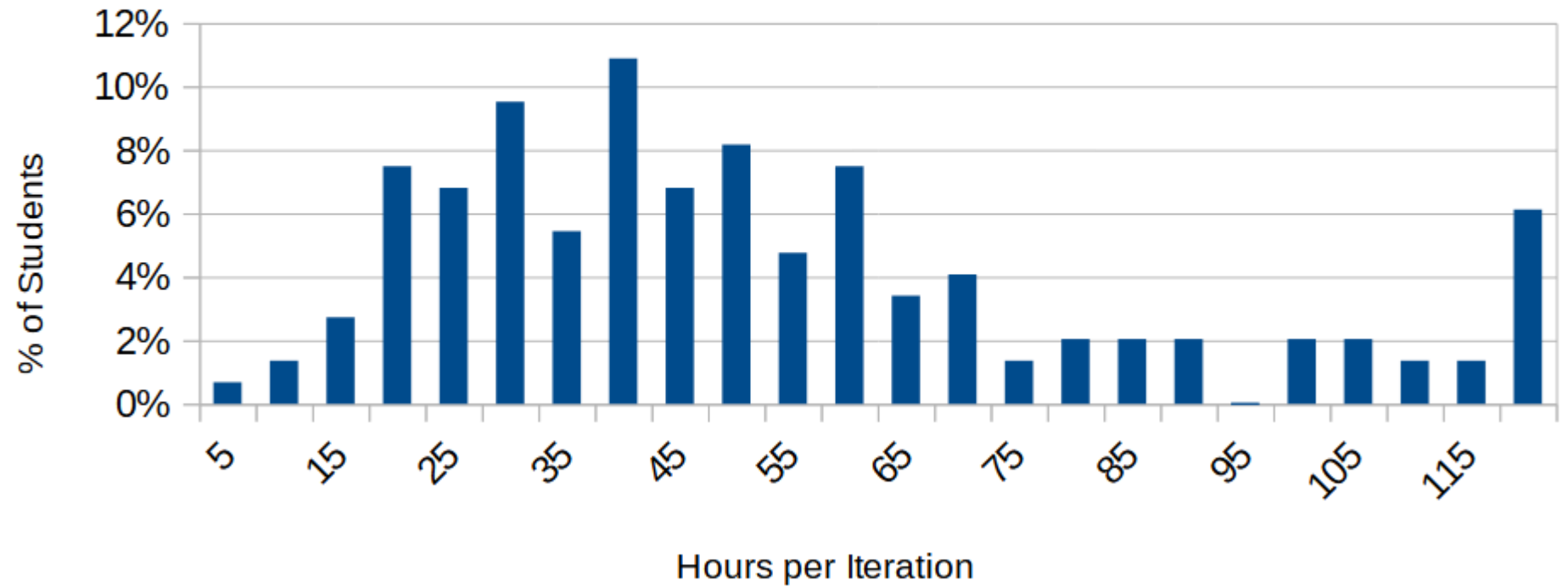
- **Must Use Git**

- Exercise 1 teaches Git use
- Log into GitLab now so it creates your account (otherwise I can't add you to your team)
<https://csil-git1.cs.surrey.sfu.ca/>
- Tell Git your email & name to earn marks
`$ git config --global user.name "John Doe"`
`$ git config --global user.email johndoe@sfu.ca`

How much time spend per iterations?

Hours Spent per Student per Iteration CMPT 373 Spring 2021

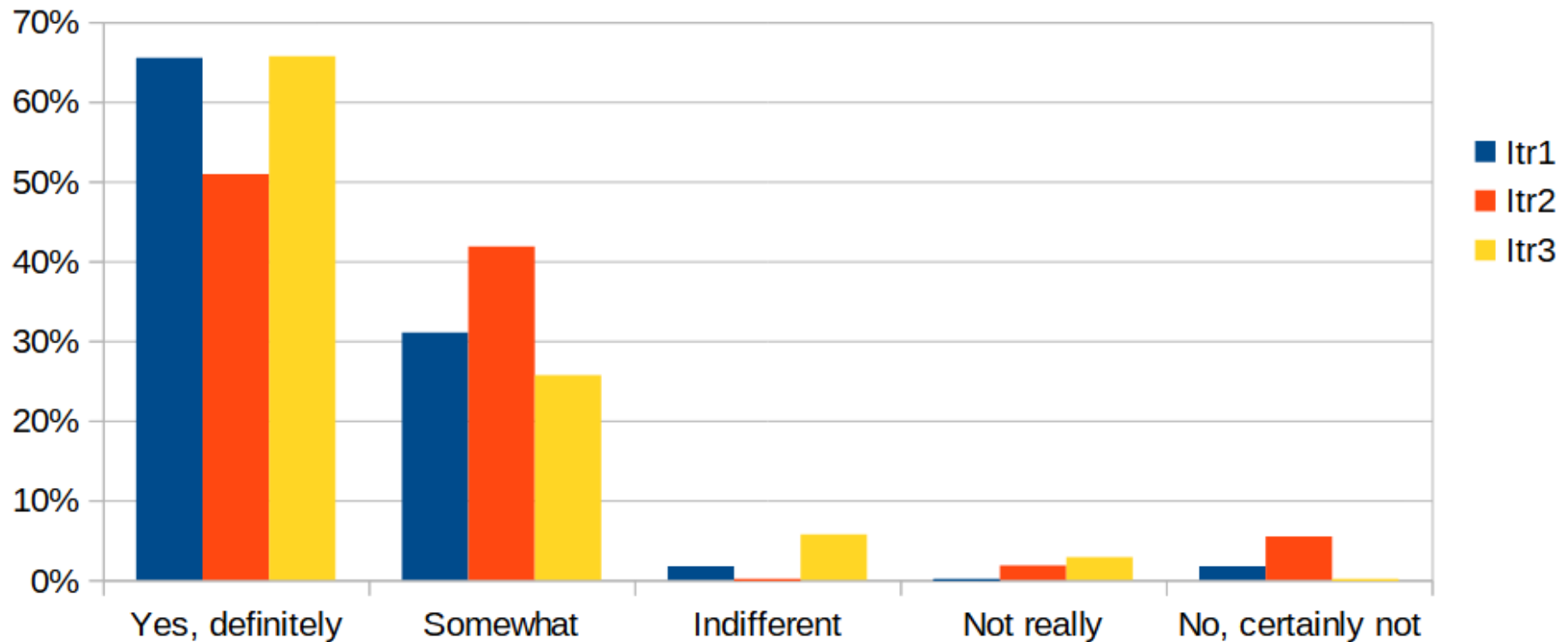
(Data points for each iteration included)



Time Worthwhile (2021-Spring)

Do you feel the time you spent on the project was worth what you learned?

CMPT 373, Spring 2021



Advice from Previous Students

- **Be Assertive**
 - speak-up about your ideas
 - pickup more tasks
- **Be proactive**
 - look for more tasks to do
 - don't leave work to end of iteration
- **Learn from teammates; support teammates**
 - ask for help faster;
if stuck for 4 hours, ask your *team*
 - course is a lot of work!

Project Logistics

- **Wednesday & Friday:** Lecture
 - Some pre-recorded videos covering project basics (testable)
- Teams assigned on this Friday!
 - Come together and setup meeting time, technology, roles
 - Do icebreakers to get to know everyone
- **Monday** has 2 tutorial times
 - This coming Monday you'll meet your customer

Keys to Success

- It's Project base!
You'll get out of the course what you put into it.
- No final; but in-class quizzes and project performance will reward those who learn lecture content
- Honest effort on readings to internalize ideas

