What are some problems about maintaining old code?

Admin - CMPT 213 Dr. B. Fraser (c)

People

Instructor: Dr Brian (Fraser)

- **I like questions, and love feedback!**

Pin 23
(Input)

Pin 1
(Input)

Pin
(out

Pin
(Output)

DPU3K
Telephone On-Hold Marketing System
"...because your callers are your business..."
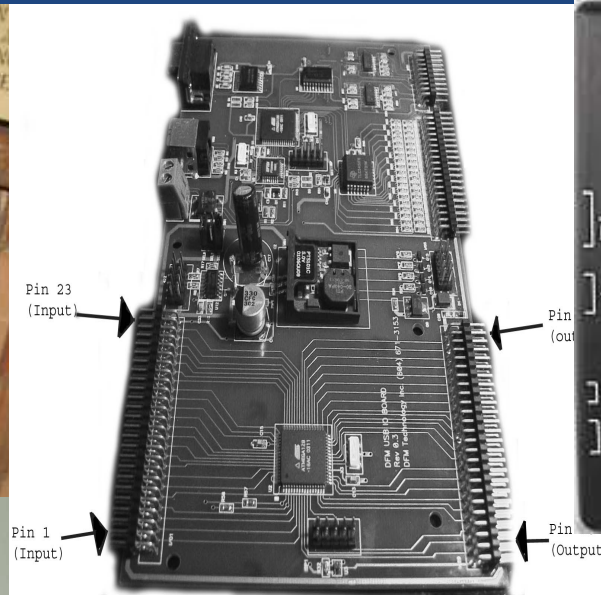
About Me

- Home Town: Surrey!

- Degrees: BSc & PhD from SFU (AI)

- Favourite Video Game:
  StarCraft 2, WoW, Valheim

- Family: Married with 2 girls (6y & 8y)

- I recognize that I am privileged to be in my position with many advantages afforded to me throughout my life.
  - I work to build a positive inclusive experience for everyone.

Daughter's biggest worry about my online teaching.

Course Expectation

- Only one thing

  - 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 a message
  - Give a little context (class, your name, topic, ...)
  - U Shd rite th3 msg so i wnt 2 reed it.
  - Email: If you are sending more than 2 a week, may be too many.

Students

- Who is in:
  - Computing Science
    - Software System
    - CS Major
  - Other:
    - Faculty of Arts & Social Sciences
    - Faculty of Business Administration
    - Faculty of Education, Environment or Health Sciences
    - Faculty of Physical Sciences or Math
    - Faculty of Communication, Art and Technology
    - School of Engineering

Discussion

In groups of 3 to 4 people:
- Exchange email address;
- Answer the following:

1. What's the worst code quality you've seen? What made it bad? Did you write it?

2. Why do we write comments?

3. Why do we have both Java and C++?

Course Information

Guide to Slides

- Slide Colour Guide (often...):
  - Green: headings.
  - Yellow: Highlighted text.
    - This course has one midterm and one final.
  - Blue: Term being defined.
    - Hour: 60 minutes.
  - Sweep-in Text: Blanked out text to keep (almost) everyone awake and hold attention.

- Joke:
  - When C++ is your only hammer..

Course Topics

- Basic Course Goal
  - To learn to write good quality object oriented programs using Java.
  - Become bad-code intolerant

- 3 Components of Course

You already known:

- How to program in an object oriented language.
  - Know Object-Oriented Java?
    - Great!
  - Know Object-Oriented C++?
    - We'll cover the basics of Java very quickly

      (Must read ch1 of text, or online)
    - Advanced topics covered in more depth.
- How to develop simple Object Oriented applications.

- If you don't, please come talk to me!

Basic Info

- https://opencoursehub.cs.sfu.ca/bfraser/grav-cms/cmpt213/home
    - Notes & Readings
      may have announced in-class quizzes.

    - Assignments
      about 2 weeks to complete
         These take a _lot_ of time;
         You will be writing a _lot_ of code!

- Review: Readings Ch1, getting help, grade weighting

- Recommended (out of print) Text
    - _Object-Oriented Design & Patterns_, 3rd ed,
      by Cay Horstmann; Free (LEGIT!) PDF of website

Keys to Success

- Slides:
  - Posted online, BUT key points blanked out.
  - Take notes for the blanks and the extra things I say.

- Keep up on reading

- **Do assignments to be proficient with material.**
  - Can't learn to drive by just reading a book; Likewise with programming!

- Ask Questions!