What are some problems about maintaining old code?
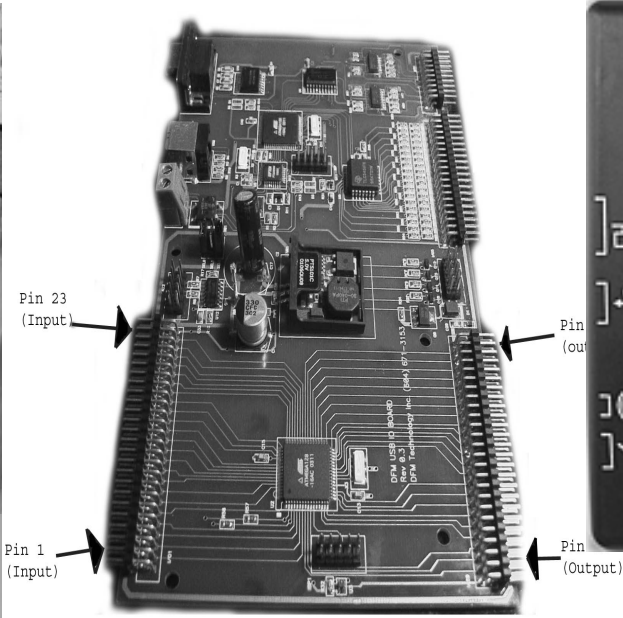
Instructor: Dr. Fraser - call me Dr. Brian

- I like questions, and love feedback!

Pin 23
(Input)

Pin
(out

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

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Pin 1
(Input)

Pin
(Output)

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..

Classroom Expectation

- Only one thing:

    - Texting
    - Talking (vs participating!)

- Must ask before taking videos/pictures of lecture.

- If sending me an email:
    - Give me a little context (class, your name, topic, ...)
    - <u>U Shd rite th3 msg so i wnt 2 reed it.</u>   ..

- If sick, please email vs coming to office hours.
    (kids at home; don't want to get sick!)

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

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*, 2nd ed,
    by Cay Horstmann, Wiley, 2006, 9780471744870.
    On 24H reserve.

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!