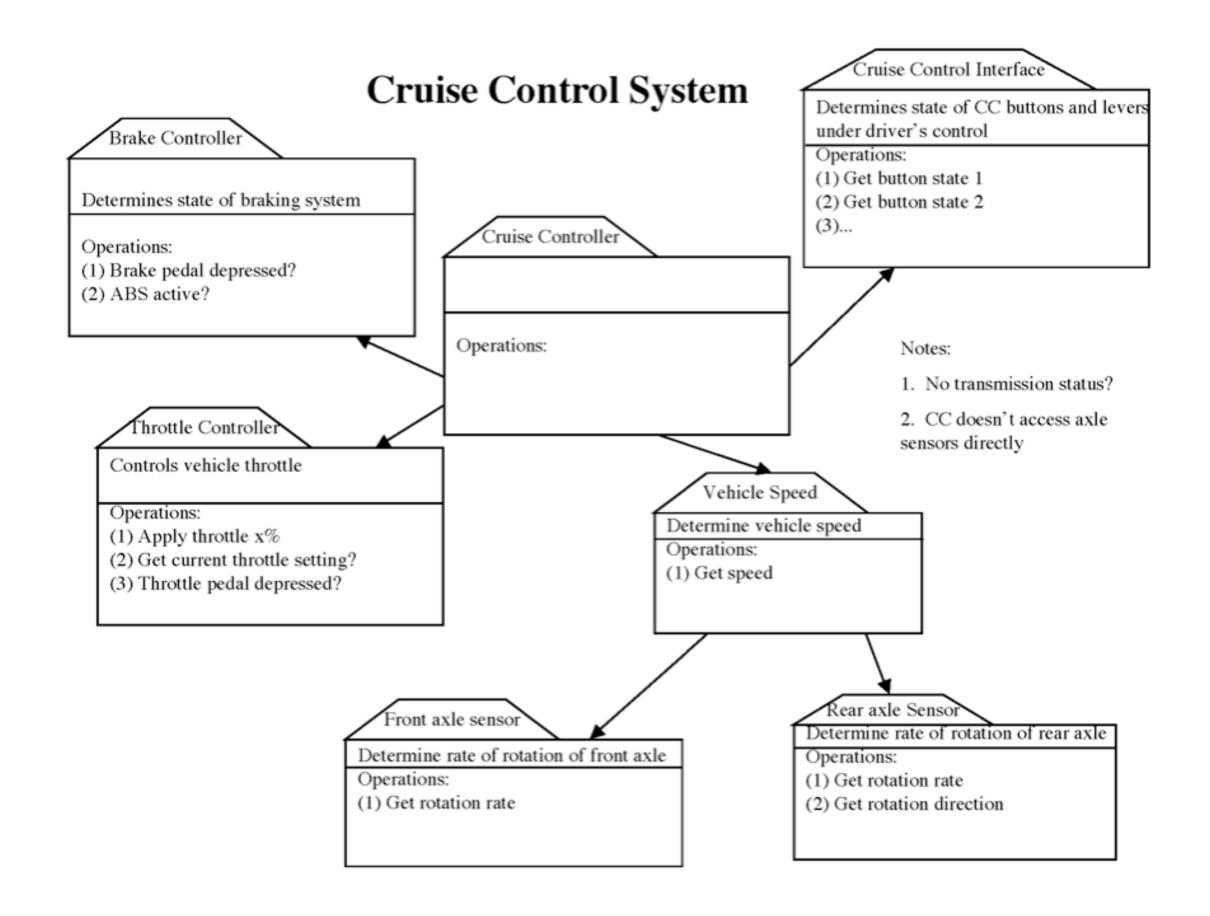
Overview: Klax World Model

Justin R. Erenkrantz jerenkra@ics.uci.edu ICS 52: Introduction to Software Engineering Wednesday, October 6th, 2004

Important Notes...

- o Hard copies must be double-spaced
- Hard copies can be double-sided (duplex)
- A word to the wise: I will be traveling late next week and will have sporadic email access. If I reply, it'll be delayed.
- o Office hours MW 3:30-5pm in ICS2 246
- These slides should be posted soon (Friday?)

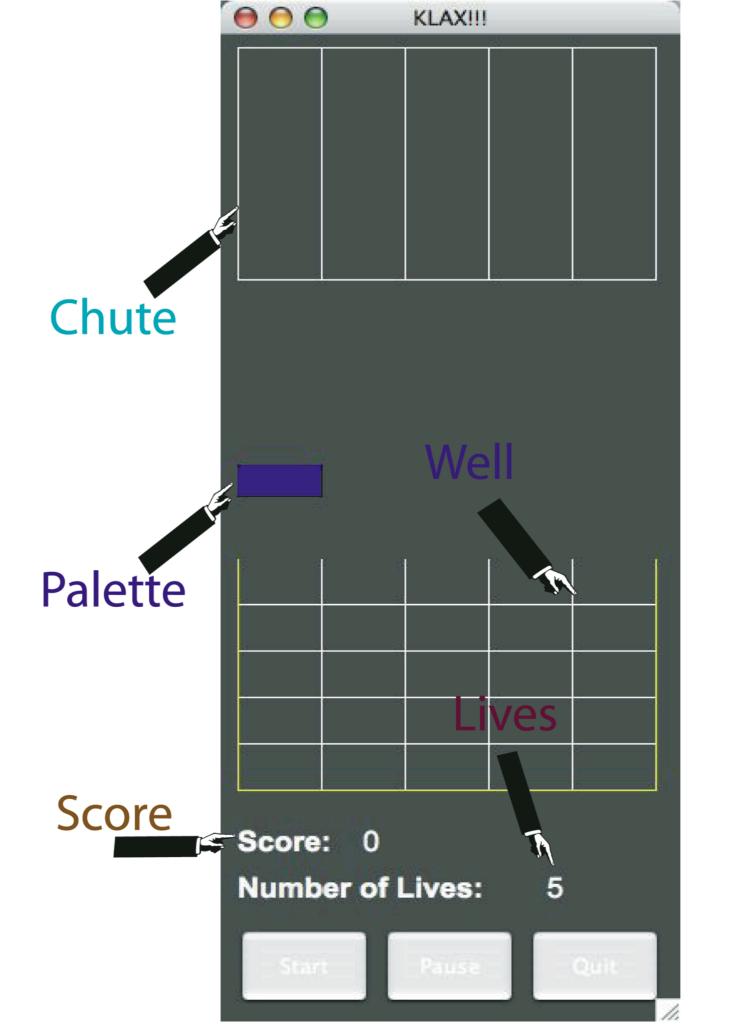


Cause and effect: Automobile

- What happens when I turn wheel to right?
- ...when I try to lower windows? Driver-side?
- ...when I turn the wheel left before starting?
- o ...when I switch to reverse while driving?
- o ...when I apply emergency brake?
- o ...when I open the door with keys in?

Goals of a good specification

- o Says what system does and doesn't do
- o Clearly explains the system comprehensively
 - o Explain to a first-grader (aka computer)
- Take any system and all behavior would be defined by its specification
- Reverse applies too: Using just the specification, you can design the system

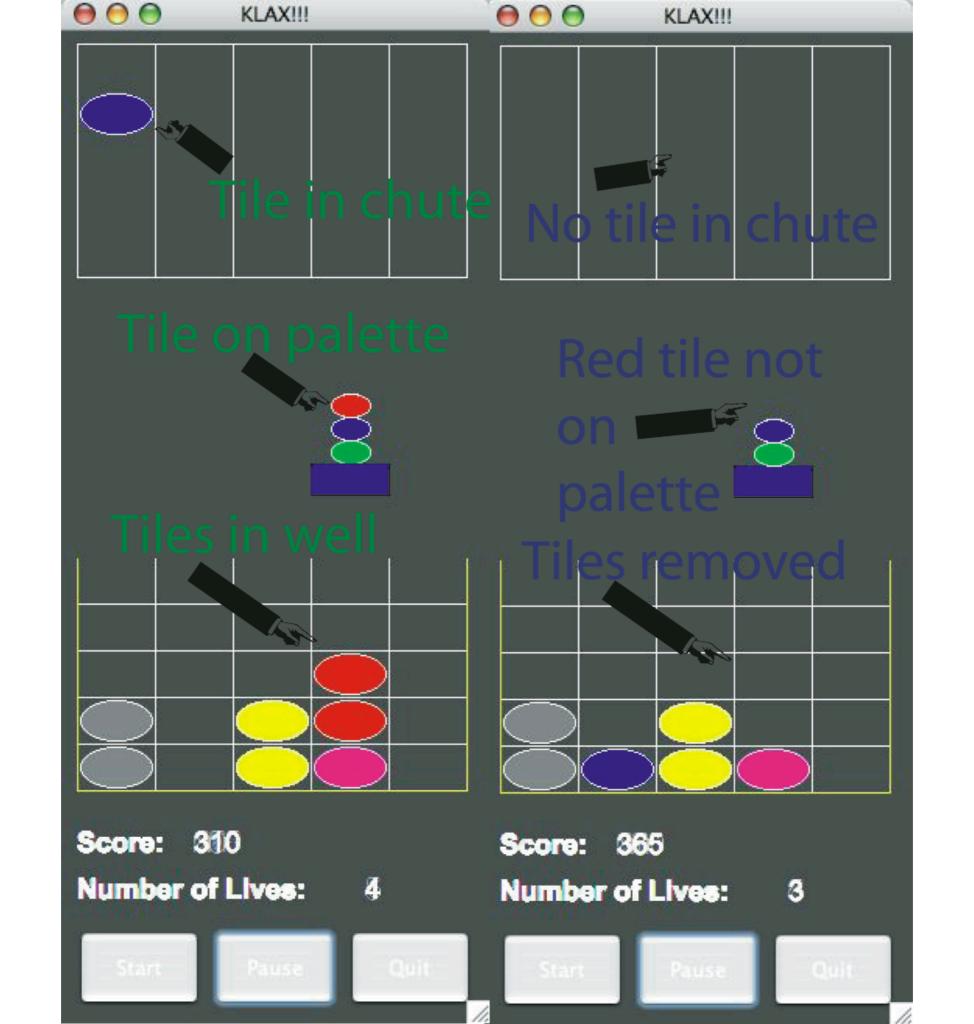


Questions you should answer

- o Object-oriented analysis: Try to abstract!
- Try to answer the 4 W's + H.
- Who uses X? What is X? Where is X?
 When is X used?
- How many of X? How does X change?
- Can X change? When can X change?

What is X?

- Describe the visual features of X
 - o Color, shape, size?
 - Is there meaning or relevance?
- Describe the functionality of X
 - What is the intended purpose?
 - How does the user influence X?



Cause and effect: Palette

- What if a palette misses a tile?
- What if a palette is underneath a tile?
- What if a palette is full? (What is full?)
- What if a tile drops on an empty well?
- What if a tile drops on a partially full well?
- What if a tile drops on a full well?

Cause and effect: User Input

- What happens when I hit left at 1st column?
- o ...when I hit right at 1st column?
- ...when I hit down with no items?
- ...when I hit down with four items on palette?
- o ...when I hit left before I hit 'start'?
- o ...when I hit 'Start' after I die?

Role of the prototype

- o Guide on what these answers should be
- o However, the prototype is not perfect
- You will be forced to use common sense
 - Where is the prototype incorrect?
 - o These are great for future changes!
 - o Include justification as to why incorrect