Basics of sketching
Drawing Kit Tutorial

- fine liner
- chisel point
Why is Drawing Important?
It is a (potentially fast) means of communicating an idea

The Strumbone
A guitar with a rolling capo that moves up and down the neck so you can play it similar to the way one plays a trombone and there are only three strings in drop D tuning and the roller must be preloaded against the neck of guitar so the strings are always depressed and the locations of the chords must be marked on the neck for beginners and
Why is Drawing Important?

good idea bad idea

COLD FUSION MACHINE
Why is Drawing Important?
but I can’t draw...

before

Horizontal Toaster

after

Horizontal Toaster

PDES 3702/5702 Concept Sketching and Rendering  (7 weeks)
Putting “Science” to “Art”

Mental Models
proportions, elements

Basic Tools
line work, simple shapes

Basic Rules
perspective, lighting

Practice
Quiz!

1. Sketch a picture of the side view of a car. Any car.

2. Put your name on the back of the sketch
Uncertainty is Visible
Mental Models
Car Sketching

abstraction

realism

high detail ← ----------------- low detail
Mental Models
Pyramid from Scott McCloud, Understanding Comics, 1993

Abstraction

Reality

Meaning
Mental Models

Pyramid from Scott McCloud, Understanding Comics, 1993

Abstraction

Reality

Meaning
Physical Models
The Basics Tools
lines, circles, ellipse

35 degree

3 quarter view
Perspective

1 Point

2 Point

3 Point

This Class
The Horizon or Eye Line

Vertical Lines are always vertical
The Cube

Close Vanishing Points = High Distortion
Close Up Objects
Where are the Vanishing Points?

Almost Parallel
Close Up Objects
Where are the Vanishing Points?
Proportions

note: only slight convergence of lines
The Cylinder

Horizon

minor axis
Circles on a Cube
Products of Basic Shapes
Putting it Together
Logistics

Brainstorming Assignment Due in Lab

Design Notebooks in Lab

Practice your basics

Bring drawings supplies next week

Team Finance Person 530 tomorrow in 37
Questions?!