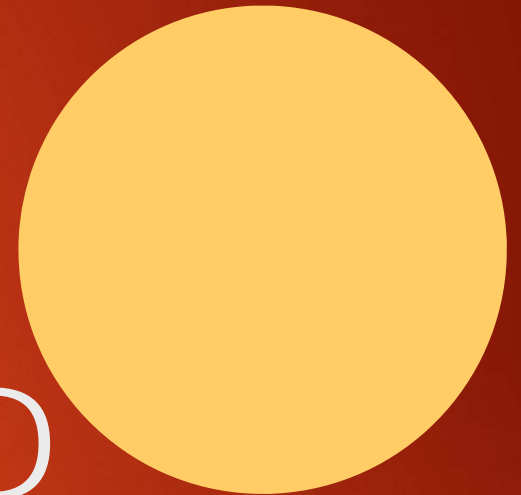# Intro to AutoCAD

STUDIOCRAFT
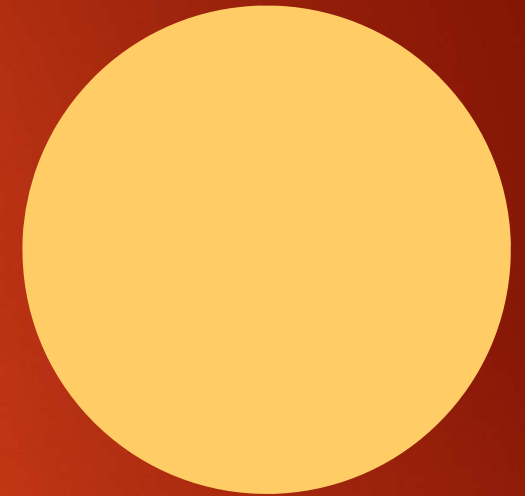
CAD Programs

- AutoCAD
  - AutoCAD LT
- Vectorworks

- Inventor
- REVIT
- Fusion 360
- Solidworks
- SketchUp
- Drafty
- TinkerCAD
- FormZ

Why do we use CAD?

Why do we use CAD?

- Drawing Clarity
- Unity of Presentation
- Collaboration Tools
  - X-refs
  - Mark-Up
- Multiple revisions
- Communication – transfer
- Archiving
- EDITING

- Accuracy
  - Cutting butter with a chain saw
  - GIGO
- Output format flexibility
- Drawing Automation
- CAM Integration
- Database

Starting a Drawing

- Start from scratch
- ACAD Templates
- Create a personal template

- Most of the time you will build out an existing drawing
  - Unfortunately this is a way mistakes are propogated

Command Entry: Around the Screen

- Ribbon
- Command Line
- Right Click Pop-Ups
- Title Bar
  - "Under the A"
- Status Bar

Command Entry:
The "right" way?

- There are multiple ways to do just about everything
- The right way is the way that works best for you

- When you don't know
  - Hover help
  - Type it

  - Go to the Google

Move the display

- Use your mouse/touchpad
- Zoom command
- Pan command
- Navigation Bar
  - Under View
    - NAVBAR
      - ON

First things first: SAVE

- SAVEAS
  - Command Line
  - Under the A
  - Title Bar
- File extensions you might see
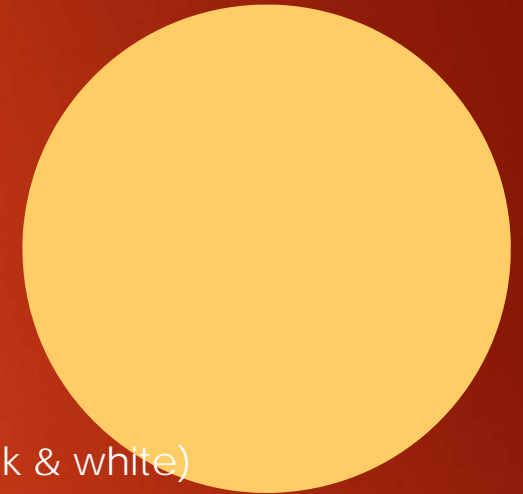 - .DWG
  - .DWT
  - .DXF
  - .BAK
  - .DWK .AC$

Try Some Stuff

- Draw some lines
- Erase some stuff

Printing

- PRINT/PLOT
  - Command Line
  - Under the A
  - Title Bar
- Select Device
  - Printer
  - PDF
- Plot Area
  - Window

- Plot Scale
  - Fit to paper
  - 1:1
- Plot Style
  - Acad (color)
  - Monochrome (black & white)
- Drawing Orientation
  - Landscape or Portrait
- Preview

Assignment

- Download and install AutoCAD
- Connect to the class directory
    - Instructions here: http://128.2.49.70/docs/
    - Class directory: \\128.2.24.78\Classes\StudioCraftCAD_S24
        - Install the VPN software if necessary
    - Create your own folder (with your name or userid)
- Modify the **CADCLASS.dwg** file in the class directory
    - Follow the directions on the assignment sheet.
        - In the #Assignments folder

Just Enough to be Dangerous

STUDIOCRAFT - CAD