

## Google SketchUp

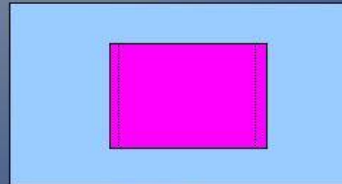
Presentation and Template Available on  
Space Coast Woodturners Website  
<http://www.spacecoastwoodturners.com>

## Why?

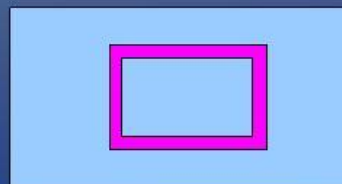
- Application to Woodworking
  - Article (Woodworker's Journal – August 2010)
  - Fine Woodworking Book – SketchUp for Woodworking (ShopClass On Demand: SketchUp for Woodworkers – Part 1: Getting Started, Part 2: Advanced Techniques)
  - Woodworking Models from all Major Magazines
  - Woodturning with SketchUp
    - ([www.turnedoutright.com](http://www.turnedoutright.com))
  - SketchUp for Woodworkers
    - <http://sketchupforwoodworkers.com/>

# Standard Drafting Views

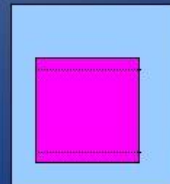
- Typical Views are Front, Top, & Side



Top View



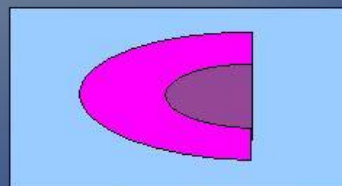
Front View



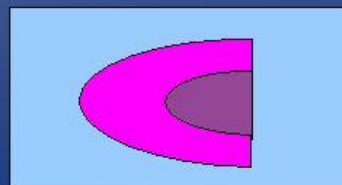
Side View

# Typical Lathe Views

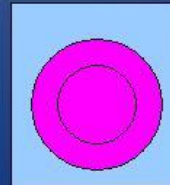
- Lathe Projects
  - Front & Top Views are Usually Identical
    - Upper  $\frac{1}{2}$  & Lower  $\frac{1}{2}$  Identical
  - Side View is Usually Concentric Circles



Top View



Front View



Side View

# Tutorials & Help

- Tutorials

- Google
- <http://forums.sketchucation.com>
- <http://www.smustard.com/>
- <http://www.go-2-school.com/>

- Help

- Forum
  - Google
  - Sketchucation
- Guide

# Getting Started

- Download (<http://sketchup.google.com/>)
- Download Template
  - Copy “Woodturning D.skp” from SCWT website to your computer
  - From SketchUp
    - Window
    - Preferences
    - Template
    - Browse
    - Select Woodturning D.skp

# Basic Drawing

- Lines
  - Straight
  - Curved
- Eraser
- Squares
- Circles
- Polygons

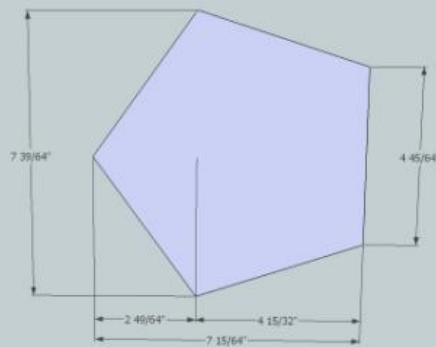
# Navigation

- Orbit
- Pan
- Zoom
- Shortcuts

# Basic Tools

- Select
- Move/Copy
- Measuring Tape
- Push/Pull
- Follow Me
- Rotate
- Undo
- Dimensions
- Group
- Offset

## Dimension & Print



## Candlestick Example

- Draw Guidelines (tape measure)
  - Vertical at 0", 6", and 9"
  - Horizontal at 1", 2", and 3" - remember that after extrusion these will double
- Draw Lines for Candlestick
- Extrude and "Make Group"
- Rotate 90°
- Delete Template and Guides

## Shortcuts

- Three Button Mouse
  - Pull Down Menus – Right Button
  - Zoom – Middle Wheel
  - Orbit – Depress Middle Wheel
  - Pan – Depress Middle Wheel, then Left Button
- See SketchUp website for Mac options



# SketchUp Plugins

- <http://news.sketchucation.com/category/tutorials/>
- <http://www.finewoodworking.com/blog/design-click-build>
- <http://sketchuptips.blogspot.com/>
- <http://forums.sketchucation.com/viewtopic.php?p=144178#p144178>
- <http://www.smustard.com/>