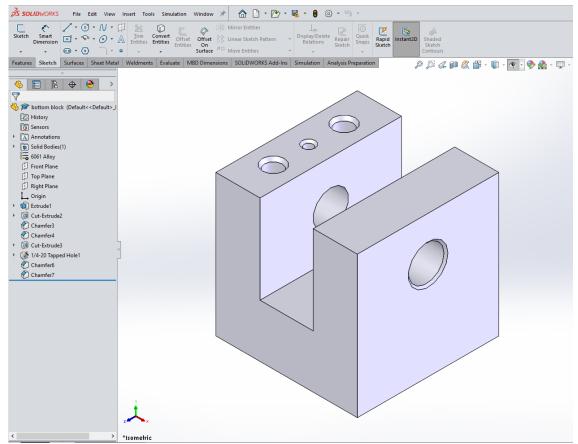
SolidWorks View Manipulation and System Tips

Objective

Know how to:

- 1. Manipulate the model view (mouse, mouse+keyboard, hotkeys)
- 2. Use design tree and rollback bar
- 3. Find help material
- 4. Change Units
- Change add-ins that load on start-up
 Take custom screen shots

View Manipulation

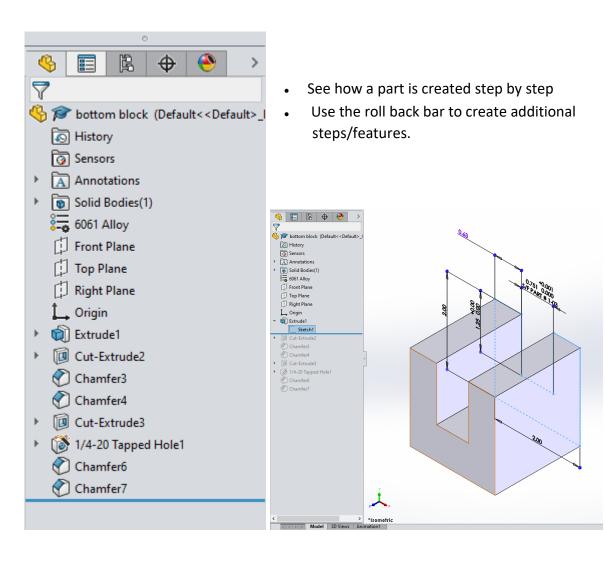


- Holding middle scroll button allows user to rotate part
- Scrolling in and out with the middle scroll wheel allows the user to zoom
- Holing the center scroll wheel and the right button allows the user to choose additional part manipulators such as pan, zoom fit, etc.

View Hot Keys

| Front | Ctrl+1 |
|-------------|--------|
| 🛱 Back | Ctrl+2 |
| Left | Ctrl+3 |
| Right | Ctrl+4 |
| 🛱 Тор | Ctrl+5 |
| Bottom | Ctrl+6 |
| 🕜 Isometric | Ctrl+7 |
| 👗 Normal To | Ctrl+8 |
| | |

Design Tree



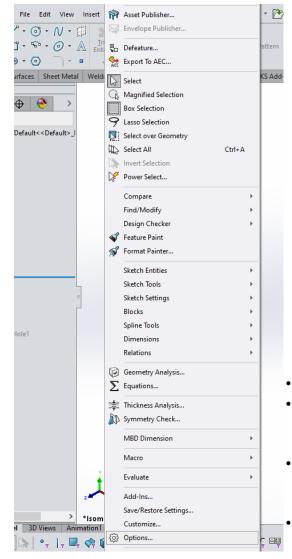
Help Menu

| <i>≩</i> s so | LID WORKS | Fi | le E | dit | Viev | v In | sert Too | ols Simu | ulation | Window | * | | 0 | ? | _ | + | | × |
|---------------|--------------------|-----|--------|--------|------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|-----------|-----------------------------------------------------|---------|---|-------------|------------------------|-----|---|
| Sketch | Smart Dimension | / · | 0 • | • • | N - 0 - | ₽ A | Market Street St | Convert Entities | C Offset | Ø Offset | 6 3 66 | Mirror Entities Linear Sketch F Move Entities | Pattern | Ŧ | Displ Re | ay/Dele lations | te: | » |
| - | - | • | • | 1 | <u>ا</u> | | Ŧ | - | enuties | Surface | 20 | Move Entities | | Ŧ | | Ŧ | | |

• Under the help the user can find a basic search engine, the online tutorials, and other SolidWorks help files.

| 💞 2020 SOLIDWORKS Help - Help | | | - 0 | × |
|----------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---|
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| | | About Learning Resources My.SolidWo | rks Subscription Services | |
| S DASSAULT SYSTEMES | | Search | | |
| SOLIDWORKS Help | | Other versions: 2020 V Print Feedbac | ck on this topic | |
| Administration User Interface If you | u have questions w | ille you use SOLIDWORKS, you can find answers in many different ways. | | |
| 3DEXPERIENCE Add-Ins We | Icome to | Links to the Customer Portal, user groups, discussion forums, instructional resources, and technical news and alerts. | | |
| ▷ Assemblies Hel | p | A compilation of help topics. You can browse the Table of Contents or use Search to find topics of interest. | | |
| Configurations SOLIDWORKS Costing | IDWORKS CAM | Links to help, API help, and tutorials for SOLIDWORKS CAM. | | |
| | orials | Step-by-step lessons with sample files covering SOLIDWORKS and many add-ins. Also available in the Welcome dialog box, on the Learn tab. | | |
| | Help | Assistance for the Application Programming Interface. | | |
| | Web Help | Switches between help on the Web and local help. | | |
| DFMXpress DriveWorksXpress | rch | Searches for information, commands, files, and models. Searches within SOLIDWORKS and MySolidWorks. | | |
| Elevent Floxpress Rel | ease Notes | The latest information about the latest service pack. | | |
| ▷ Import and Export Wh | at's New | A help file or PDE file with information on new functionality at the current SQI IDWORKS software | | |

System Options



| ystem Options Document | Properties | | | | 🚱 Search C | Options (|
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------|----------|-----------|------------|-----------|
| Drafting Standard Annotations Dimensions Virtual Sharps Tables DimXpert | Unit system MKS (meter, kilograi CGS (centimeter, gra MMGS (millimeter, g IPS (inch, pound, se Custom | am, second) ram, second) | | | | |
| Detailing Grid/Snap | Туре | Unit | Decimals | Fractions | More | |
| Units | Basic Units | 1 | | | - | |
| Model Display | Length | inches | .12 | | | |
| Vaterial Properties | Dual Dimension Length | millimeters | None | 2 | | |
| mage Quality Sheet Metal MBD | Angle | degrees | .12 | | | |
| Sheet Metal | Mass/Section Properties | | | | | |
| Weldments | Length | inches | .12 | | | |
| Plane Display | Mass | pounds | | | | |
| Configurations | Per Unit Volume | inches^3 | | | | |
| | Motion Units | 1 | | | | |
| | Time | second | .12 | | | |
| | Force | pound-force | .12 | | | |
| | Power | watt | .12 | | | |
| | Energy | BTU | .12 | | | |
| | Decimal rounding Round half away froi Round half to even Truncate without rou Only apply rounding | zero Inding | sions | | | |

- Change system properties in **Tools→Options**
- Change the user interface under System Options (this stays the same if changed after SW closes)
- Under Document Properties change units, and document appearance (this only applies to the open document).
 - All online tutorials are in metric, all projects are in English.

Add-Ins



<u>Recommendation</u>: To speed up SolidWorks loading time, uncheck Simulation and CAM from the Start Up column.

| 8 | E () | - | Part1 * | | | |
|----------------|-----------------|---------|------------------------------|--------------|-------------------|---|
| | -76 | | Add-Ins | | | × |
| Quick Snaps | Rapid Sketch | Instant | Active Add-ins | Start Up | Last Load Time | ^ |
| Shaps | Sketen | | SOLIDWORKS Premium Add-ins | | | |
| - | | | CircuitWorks | | | |
| 3DV | VOX | | FeatureWorks | | | |
| 然 🎒 | - 😭 | - 👁 | PhotoView 360 | | 41s | |
| | | - | ScanTo3D | | | |
| | | | SOLIDWORKS Design Checker | | < 1s | |
| | | | SOLIDWORKS Motion | | | |
| | | | SOLIDWORKS Routing | | | |
| | | | SOLIDWORKS Simulation | | 47s | |
| | | | SOLIDWORKS Toolbox Library | | < 1s | |
| | | | SOLIDWORKS Toolbox Utilities | | 28s | |
| | | | SOLIDWORKS Utilities | | | |
| | | | TolAnalyst | | | |
| | | - | | | | |
| | | | SOLIDWORKS Add-ins | | | |
| | | | 3DEXPERIENCE | \checkmark | 2s | |
| | | | Autotrace | | < 1s | |
| | | | SOLIDWORKS CAM 2022 | | 32s | |
| | | | SOLIDWORKS Composer | | 1s | - |
| | | | | | | ~ |
| | | | OK Cancel | | | |
| | | | OK Cancel | | | |
| | | l | \ | | | |

Screen shots for HW

Recommendation: Use the Sketch and Snip Tool on Windows computers (Shift+Window+S) – Choose from Rectangle, Freeform, Window, Full-Screen