

Introduction to 3D Parametric CAD Modeling

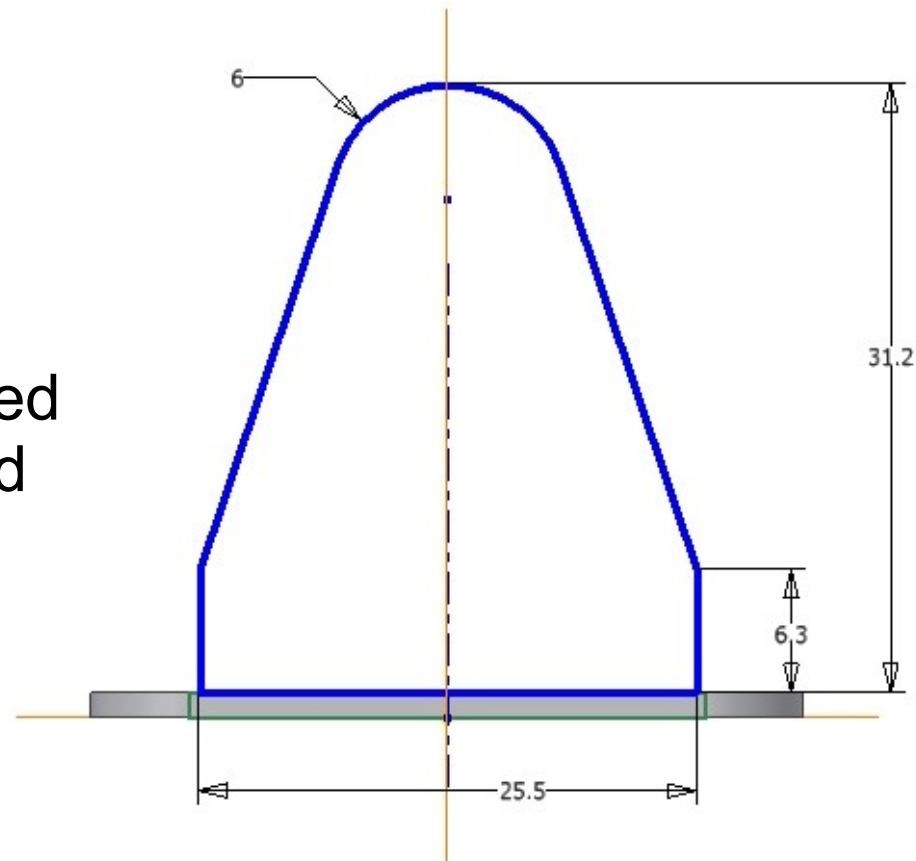
4 Primary Environments

- Sketch
- Part
- Assembly
- Drawing

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Sketch Environment

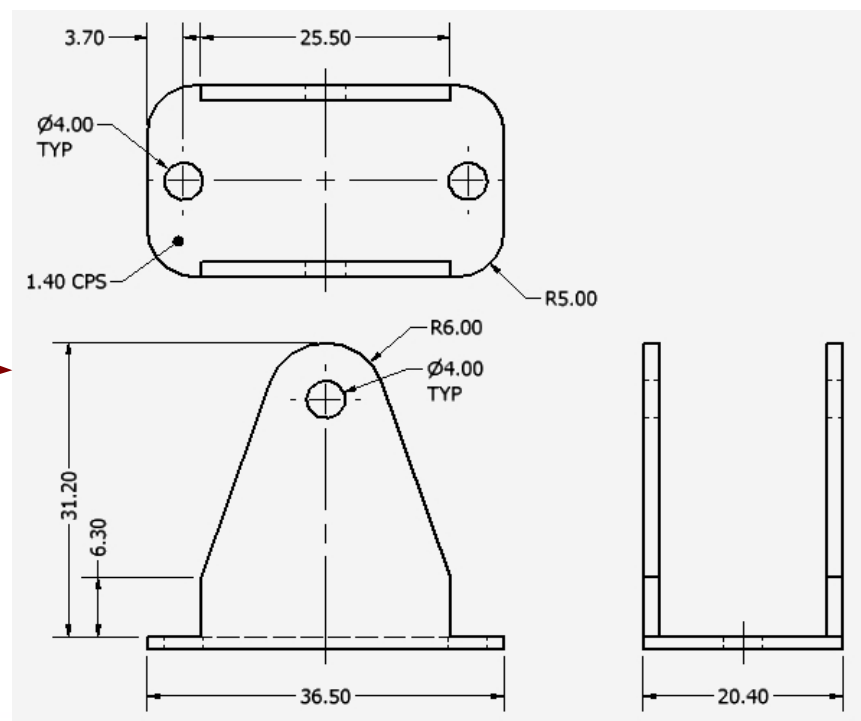
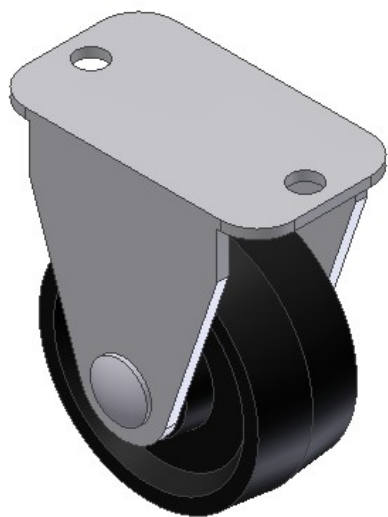
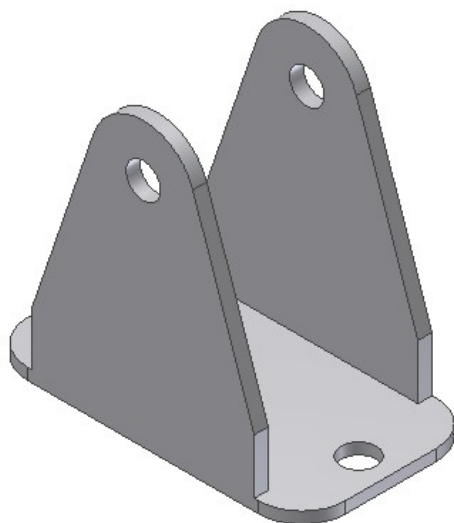
- Usually only 2D geometry
- 2D sections are used to define sketched features



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Part Environment

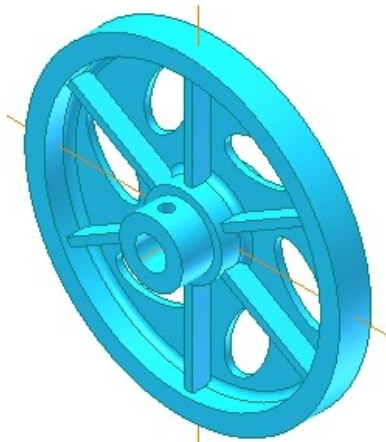
Part files are created then used in Assemblies and Drawings



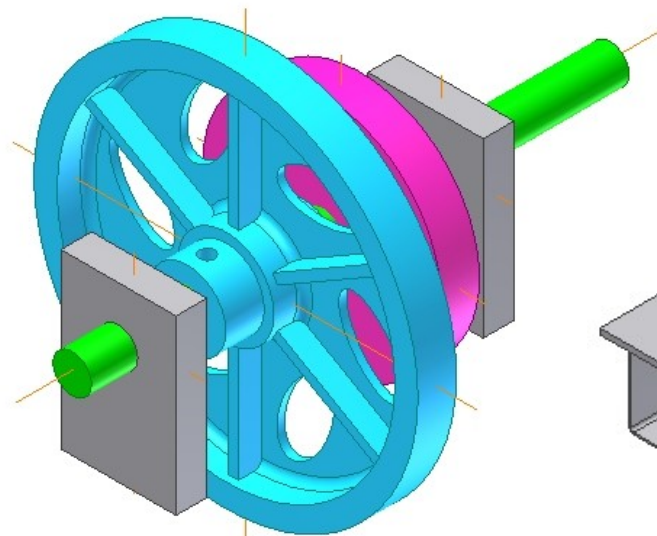
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Assembly Environment

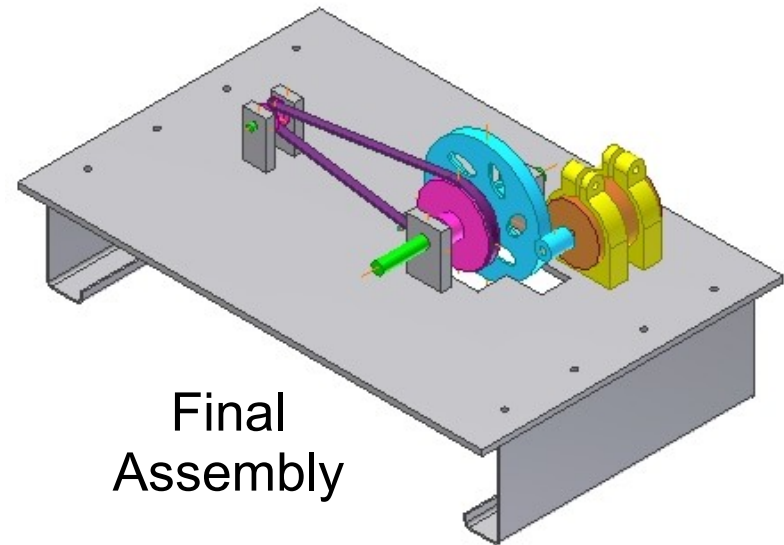
- Parts are used to create sub-assemblies.
- Sub-assemblies are used to define larger assemblies.
- Assemblies can be used in other assemblies or drawing files.



Part



Sub
Assembly

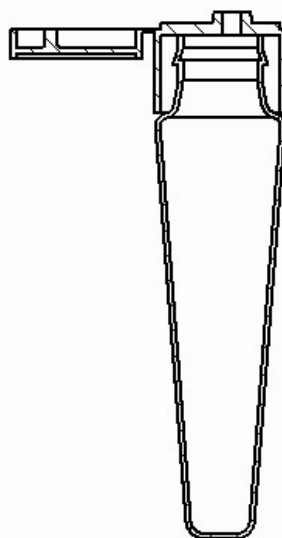
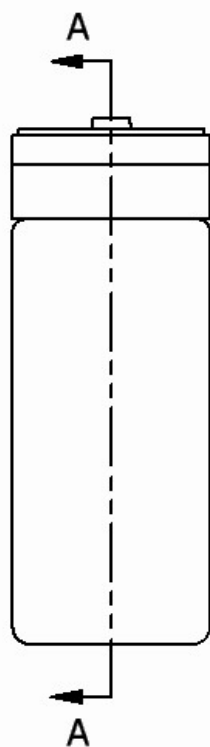
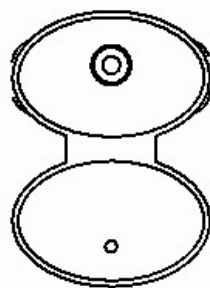


Final
Assembly

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Drawing Environment

Part files and assemblies are used to create drawings



SECTION A-A
SCALE 1 : 1

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