Managing Visibility
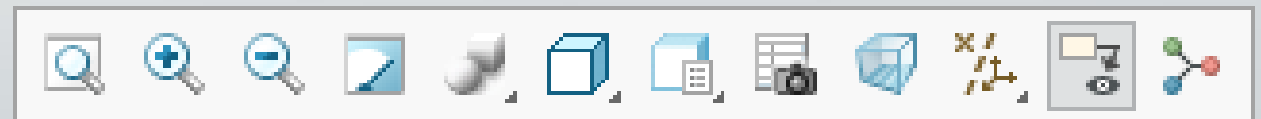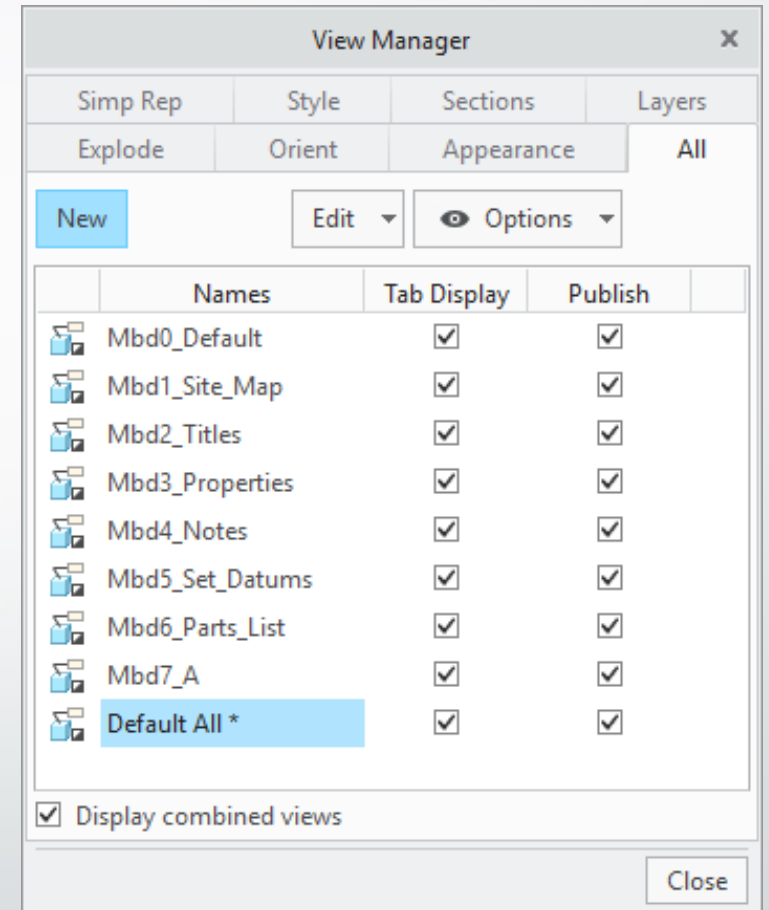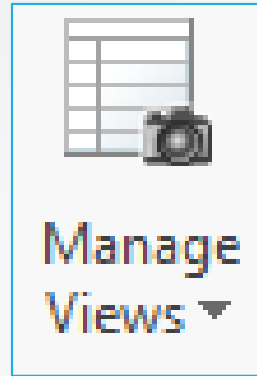
David R. Martin II

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View Manager

- Capabilities
  - Saved Views (Orient tab)
  - Simplified Reps
  - Explode States
  - Cross Sections
  - Style States
  - Appearance States
  - Layer States
  - Combined States (All tab)
- Access from:
  - **Manage Views** icon
 - In Graphics Toolbar

Saved Views

- Captures position, orientation (rotation), and zoom of model.

- Can be defined by:
  - Orient by reference: geometry faces the side of the computer screen you specify.
  - Dynamic Orient.
  - Current spin / pan / zoom position.

- Can be created from:
  - In-Graphics Toolbar > **Saved Views** icon > **Reorient.**
  - **View Manager** > **Orient** tab.

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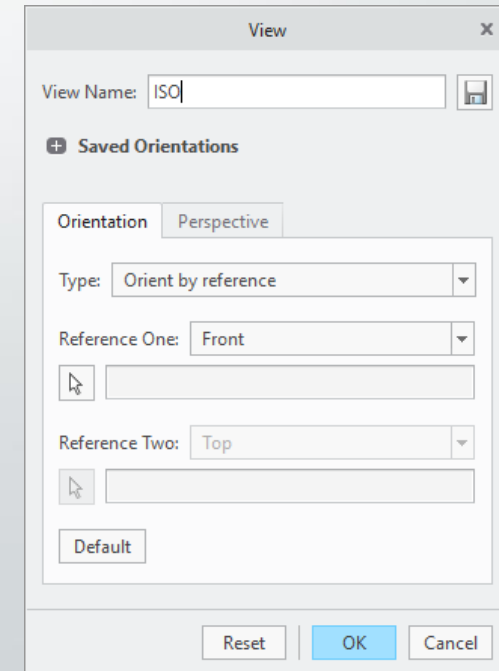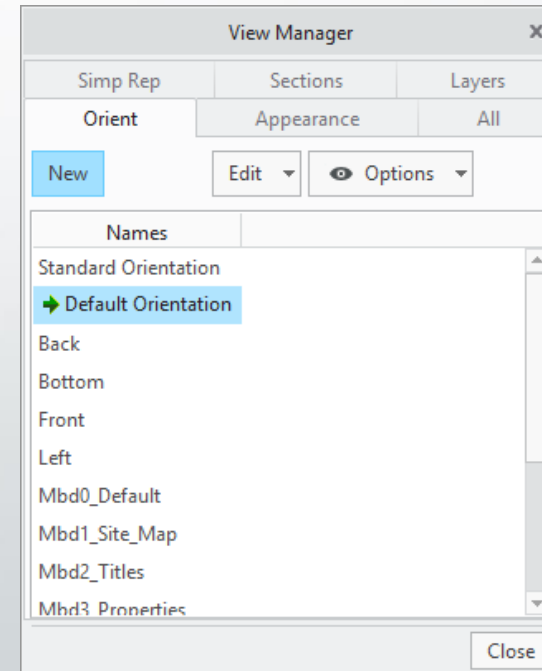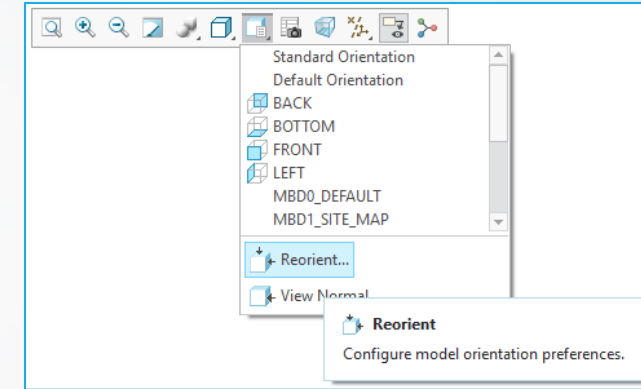
Simplified Reps

- Simplified Representations are Creo Parametric's primary Large Assembly Management (LAM) tool.

- They allow you to control the amount of detail you bring into your computer's RAM when working on a model.

- Master Rep brings in all detail for your components.

- Creo Parametric 3.0 and earlier: Reps include Geometry, Graphics, Lightweight Graphics, and Symbolic.

- Creo Parametric 4.0 and later: Automatic Rep introduced.

- Users can create custom representations.

- Be sure to use **Erase Not Displayed** after switching between Reps!
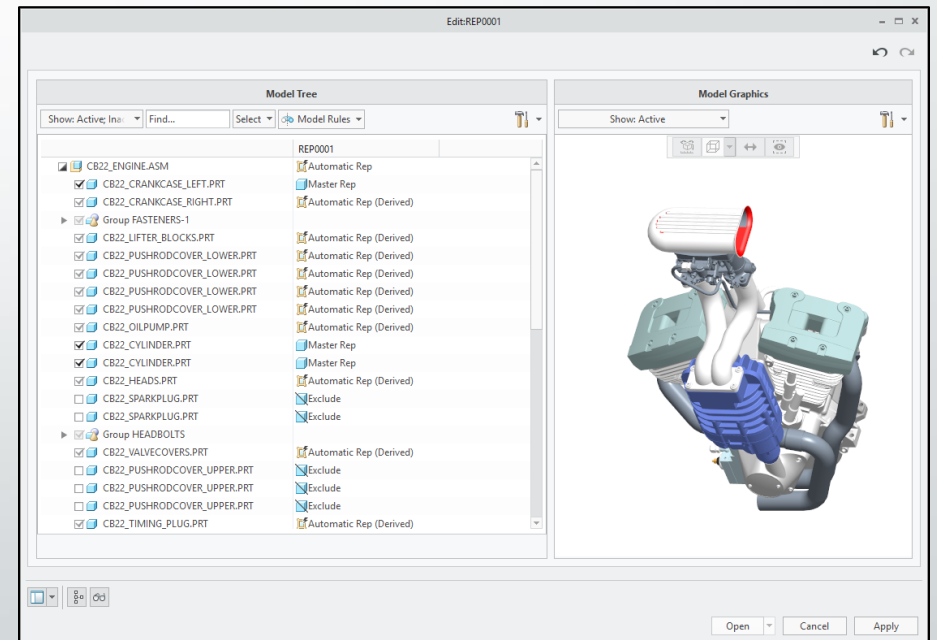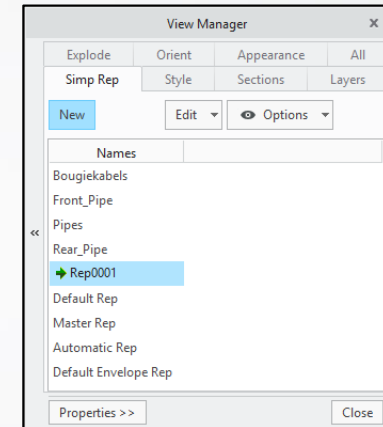
Cross Sections

- Cross Sections can be created in models and used in 2D drawings and Combination States for Model Based Definition.

- **Section** command on Model- and View- tabs:

  - Planar

  - X, Y, or Z direction

  - Offset Section

  - Zone

- Options include:

  - Capping surface and color

  - Hatching

  - 2D Viewer

  - Interference

- Manage from Model Tree and View Manager.
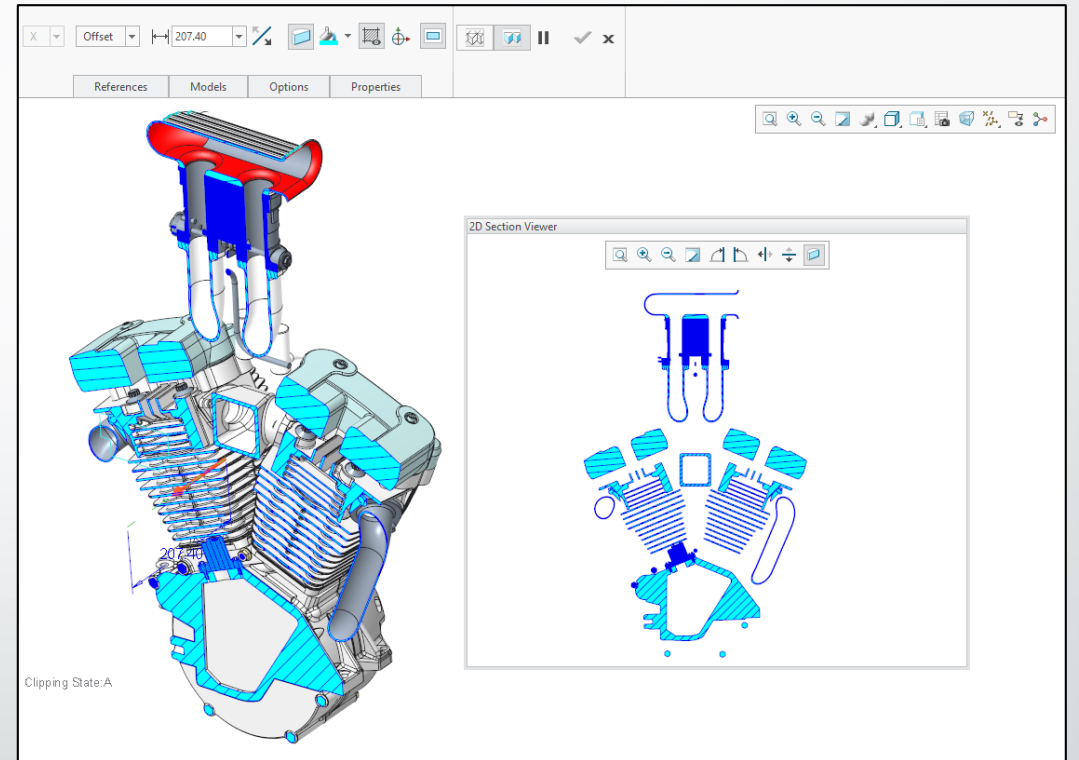
Explode States

- Explode States show components spaced apart to provide insight into the assembly process.

- Create and manage from the **View Manager > Explode** tab.

- Right click on an Explode State and select **Edit Position**.

- Options include:

  - Translate or rotate multiple components.

  - Change direction Motion Reference.

  - Copy Position, define Motion Increments and Move with Children.

  - Explode Lines.

- Explode States can be used in Model Based Definition (MBD), 2D Drawings, and Creo View.
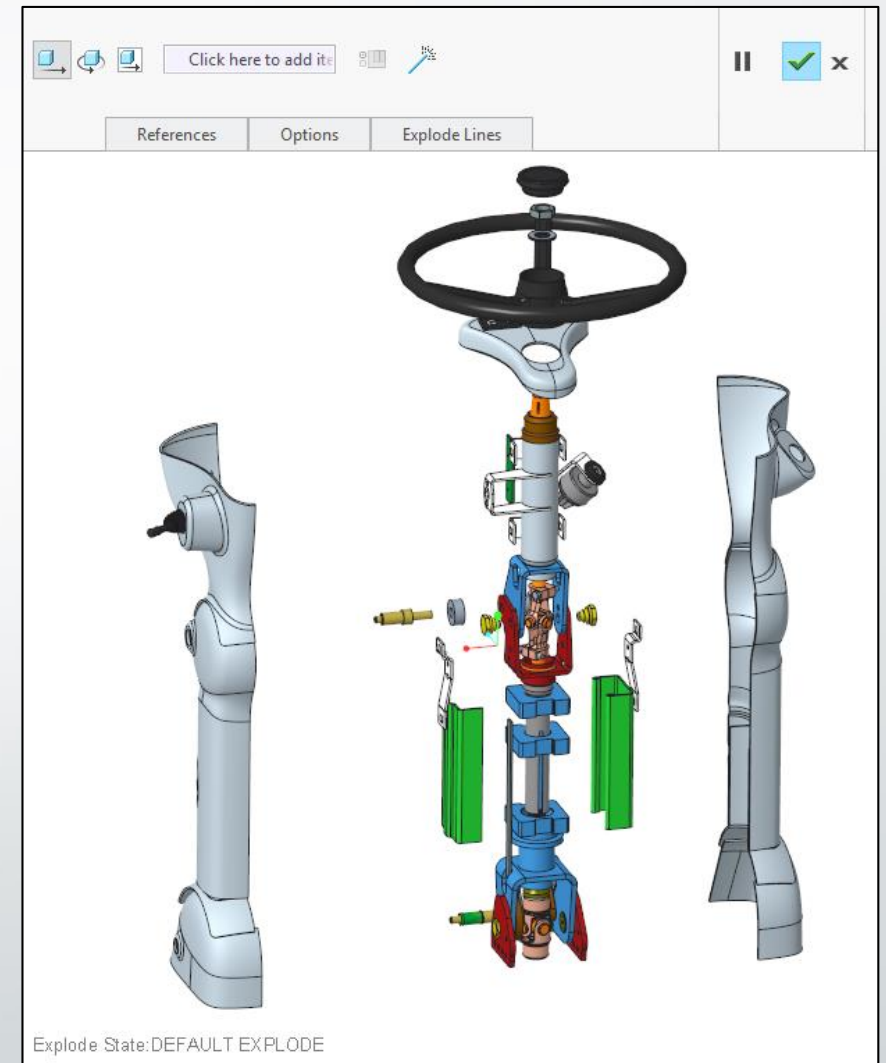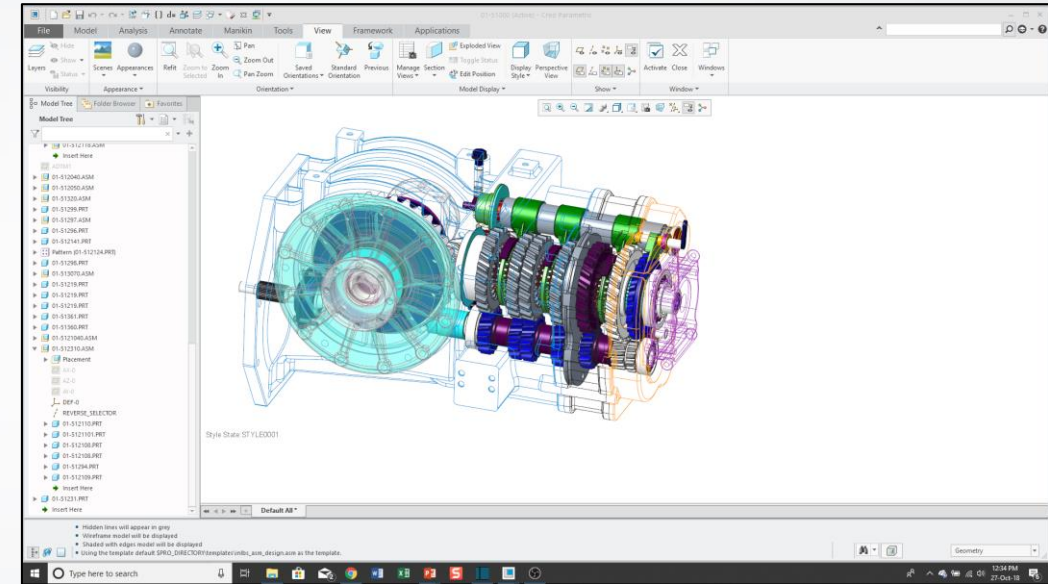
Appearance States
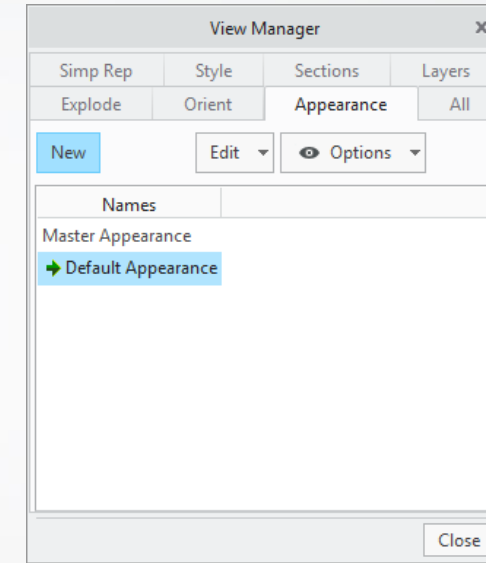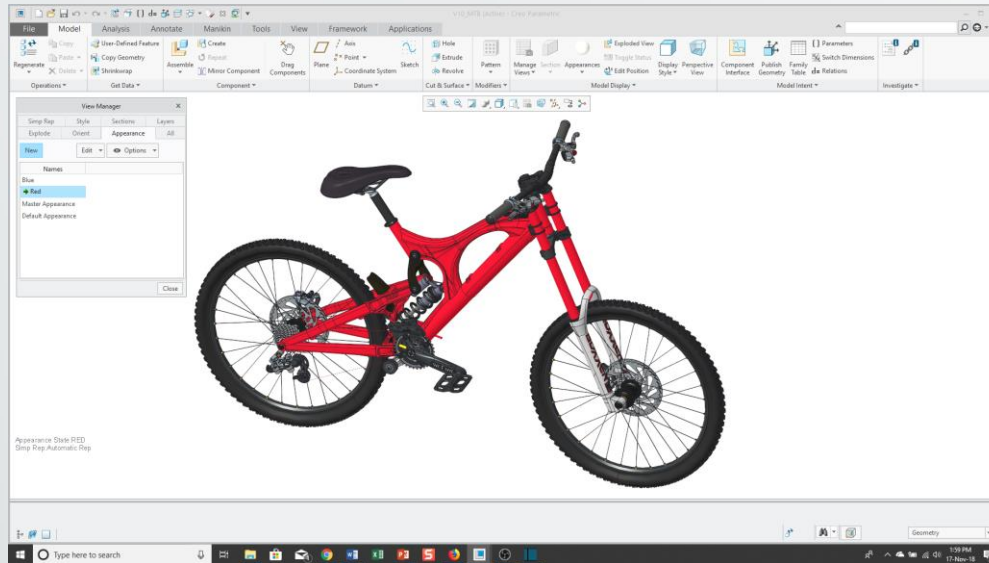
- Appearance States allow you to apply and manage multiple appearances (colors, transparencies, textures, etc.) applied to surfaces, parts, and components in a model.

- Can be defined in parts and assemblies.

- Added in Creo Parametric 4.0.

- Models come with:

  - Master Appearance: can't be changed. No appearances applied.

  - Default Appearance: how model is retrieved.
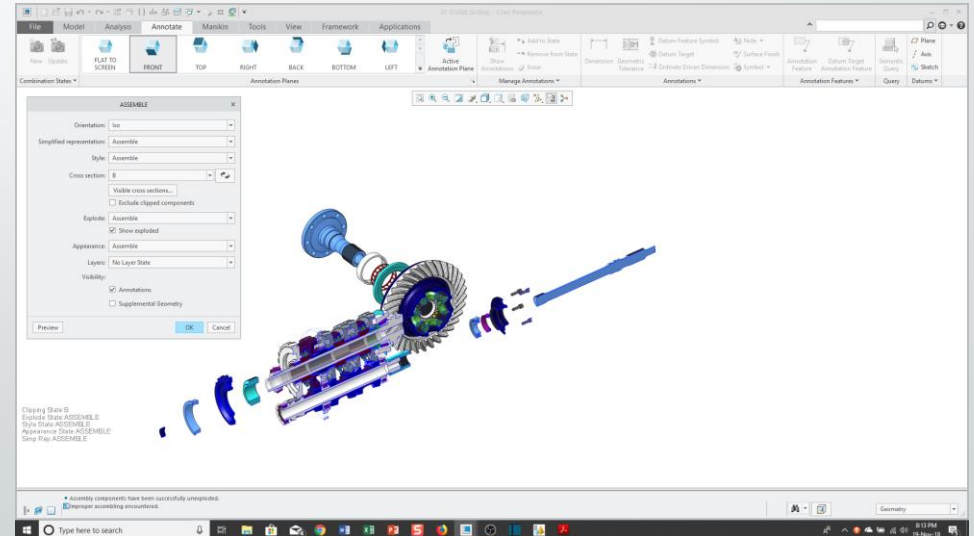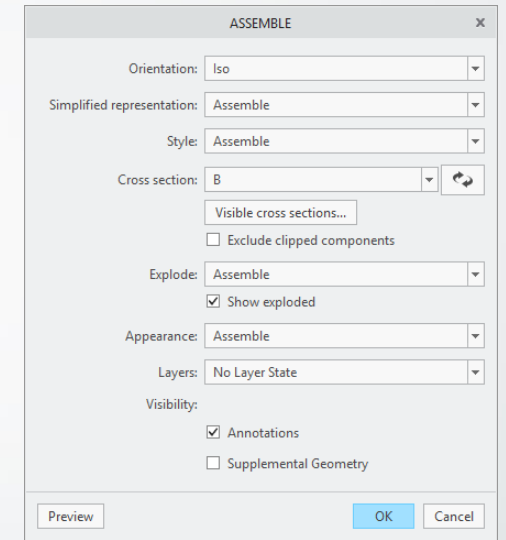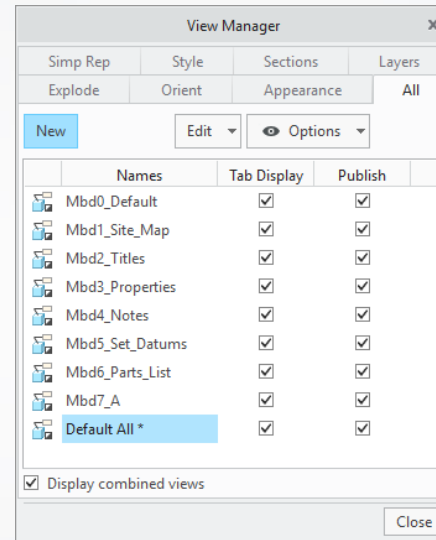
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Style States

- Style States allow you to apply different Display Styles to components in an assembly:
  - Wireframe
  - Shaded
  - Transparent
  - Hidden Line
  - No Hidden
  - User Defined (Style State from a subassembly)
- Process
  - Select components
  - **Model** tab > **Model Display** overflow menu > **Component Display Style** fly-out > select desired display mode.
  - Click **View Manager** icon > **Style** tab.
  - RMB **Save.**
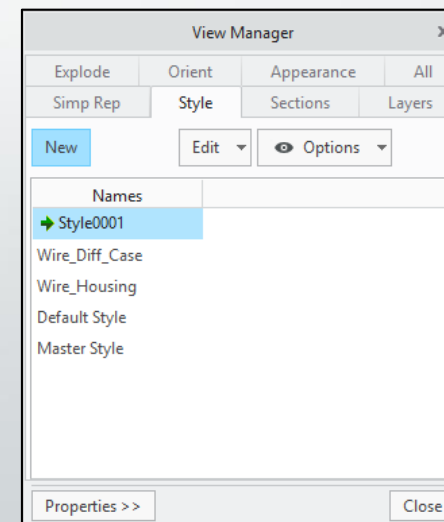
Combination States

- Consist of any or all of:
  - Saved View
  - Simplified Rep
  - Cross Section
  - Explode State
  - Appearance State
  - Style State
- Created and managed from **All** tab in View Manager dialog box.
- Can also be created from **Annotate** tab.
- Used in Model Based Definition (MBD).
- Can be used to create drawing views.
- Published to Creo View.

eBooks available on Amazon
Free to read with
Kindle Unlimited
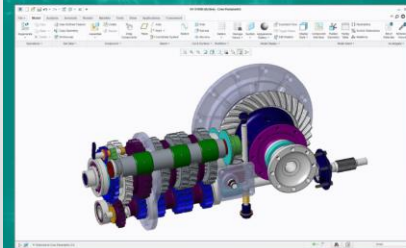
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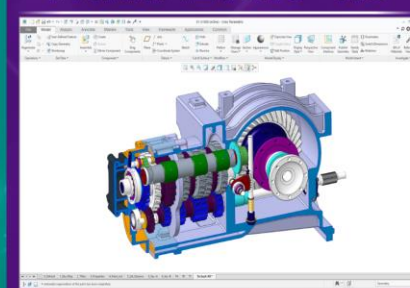
Thank You!

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