
Visual Bookmark

ThinkDesign's Visual Bookmark is a tool used to save and restore the general state of a document by managing the visual appearance, the feature activation status and the presence or absence of Spreadsheet variables. Along with Annotations they provide an effective means to communicate visual information of a design under consideration. This training task gives you an insight into the utilities of working with Visual Bookmarks. Let's begin.

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1. Step1 : Get the feel of a Visual bookmark

Open ASS_CARRELLO_06.e3 from the task installation folder.

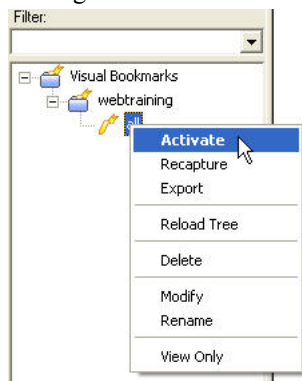
- Click  Visual Bookmarks tab on the bottom left corner of the ThinkDesign window.

The VB tree shows up and you can see a bookmark called **a11**



When activated this bookmark brings us to the start position of the model for this task.

- **Zoom Out** to make the object small enough.
- Right click **a11** in the bookmark tree and say **Activate**



Now Notice that the model updates to a view **much bigger** as specified in the Bookmark.

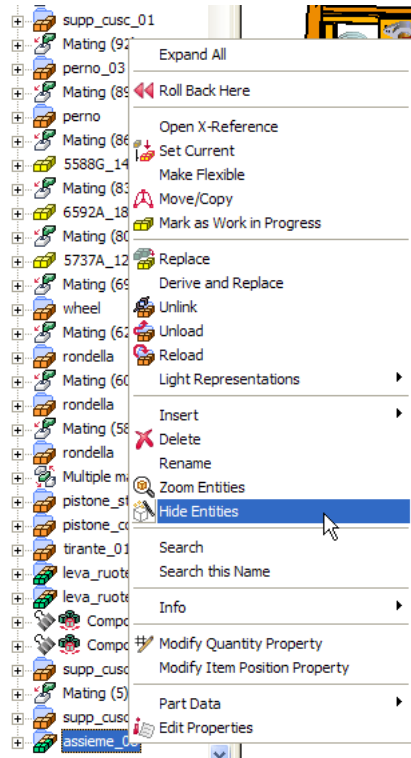
Say OK for 4 or 5 times for warning messages.

- Click  Model Structure tab at the left bottom corner of the ThinkDesign window to move into the Model

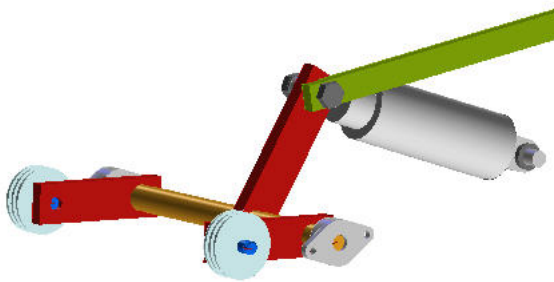
view.


We will first **Hide** sub assembly **assieme_08** as we currently do not need it.

- Right click on **assieme_08** and say **Hide Entities**



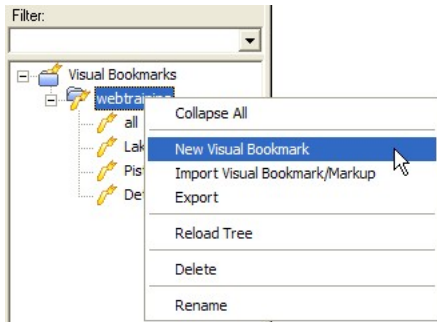
- Zoom in as shown.



- Click  Visual Bookmarks and come back to the **visual bookmarks** mode.

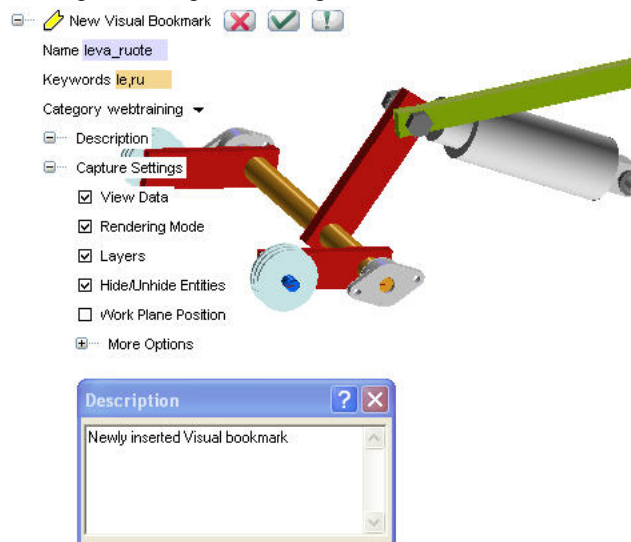
Let's now add a **New Visual Bookmark**

- Right click on **webtraining** category and say **New Visual Bookmark**



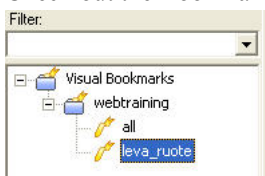
In the selection list,

- Key in the name for the bookmark as `leva_ruote`
- Give Keywords `le,ru` to help you search through a list of bookmarks when needed.
- Keep category `webtraining`
- Expand Description and type in the description for the book mark as needed.
- Expand Capture Settings and Check View Data,Rendering mode,Layers, Hide/Unhide entities.



✓OK

Check out the Bookmark tree to see the entry of the new bookmark that was added.



Note : What do each of the Capture settings mean?

VIEW DATA: When you select this option, the model/drawing fits exactly within the current display.

RENDERING MODE: When you select this option, the Visual Bookmark captures the information restoring the

viewport that you are currently viewing.

LAYERS: When you select this option, the Visual Bookmark captures the information on the visible layers.

HIDE\UNHIDE ENTITIES:When you select this option, the Visual Bookmark captures the information on hidden and unhidden objects.

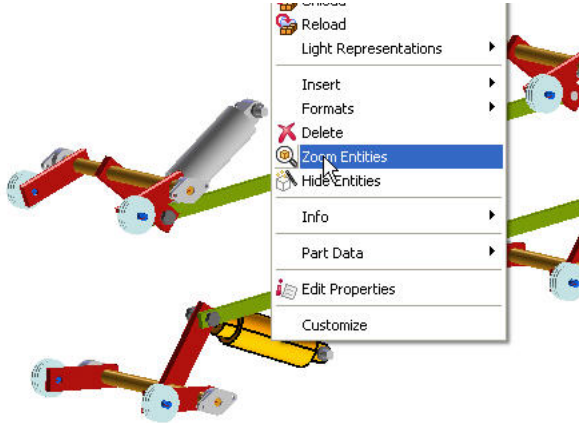
- Activate both the bookmarks and check out how the appearance changes on screen as per the embedded settings.

You will be able to differentiate the embedded settings and viewing parameters.

2. Step2 :Play with Capture settings

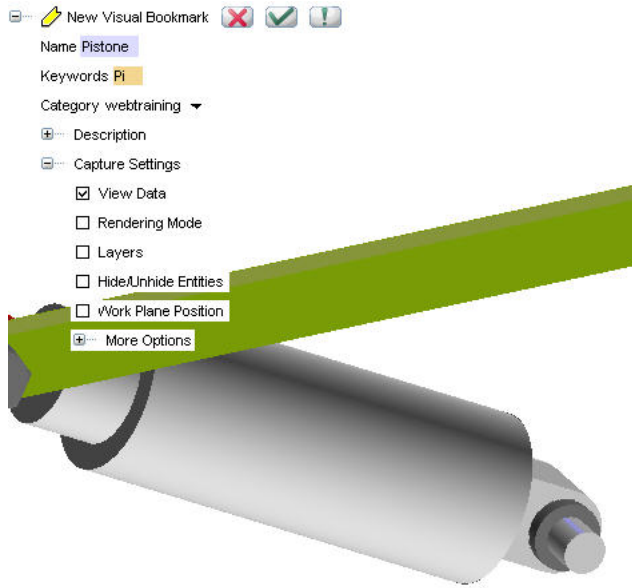
In this exercise,we will test how each of the Capture settings parameters affects the viewing of the model.

- Right click on component **PISTONE_CORPO** and say **Zoom Entities** as shown



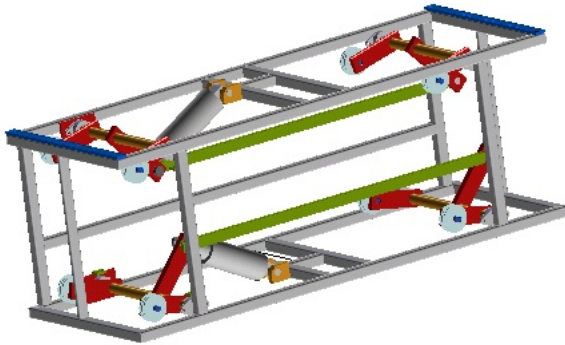
The Component Zooms in

- Create a **New Visual Bookmark** called Pistone and flag only the **VIEW DATA** option as shown.



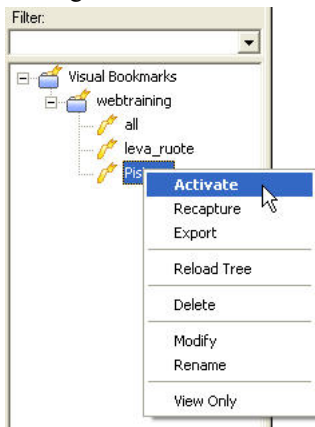
OK

- **Activate** Visual bookmark **all** as we had done previously.

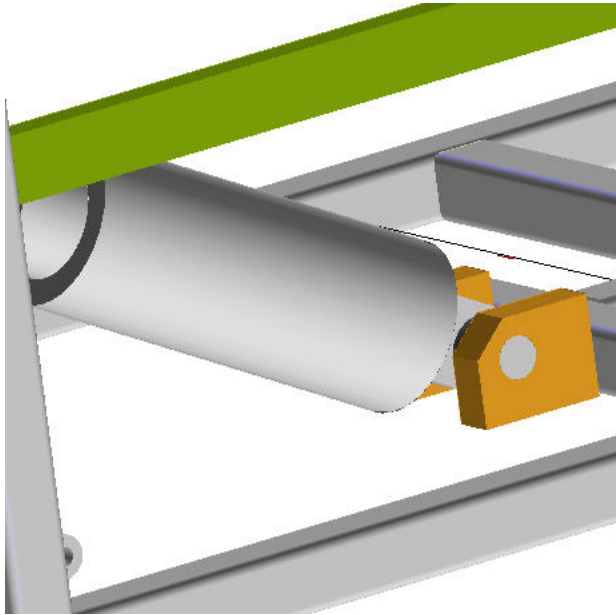


Let's now activate the New Visual bookmark **Pistone**.

- **Right Click Pistone** and say **Activate**



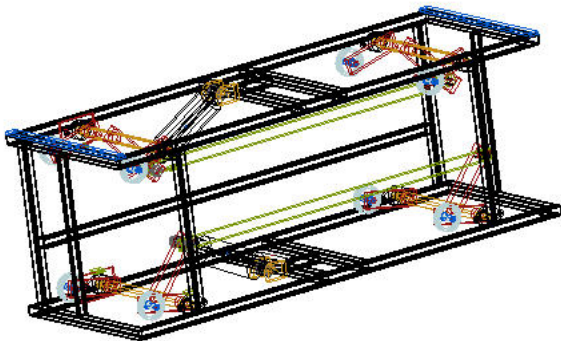
The View is modified as shown.



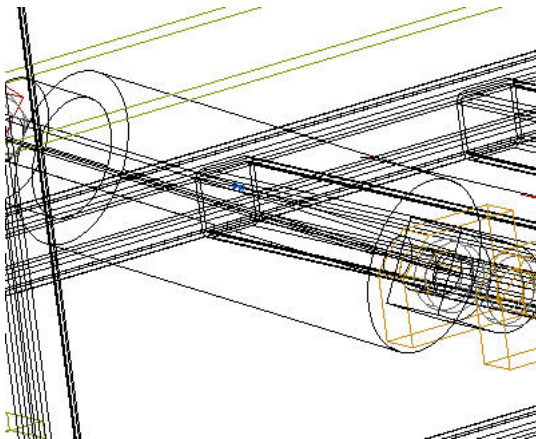
You can see information regarding **Hide/Unhide** entities is not stored. Component **assieme_08** is visible here, whereas it was **hidden** when this bookmark was created.

Let's go back to the bookmark **a11**.

- Activate bookmark **a11**
- Click **Wireframe View** to shift from **Shaded view** to **Wireframe View**.

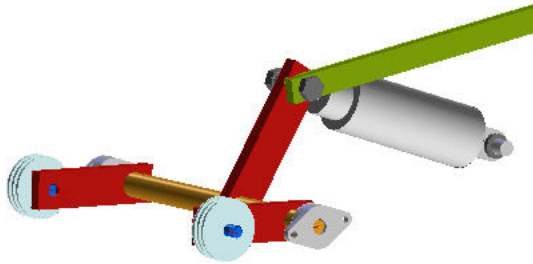


Activate bookmark **Pistone** and check out the visual.



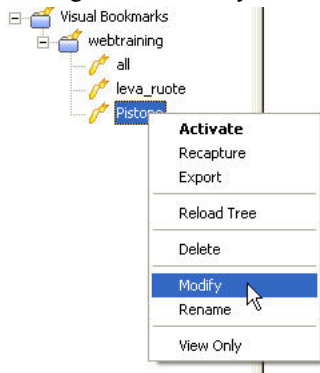
You realize that the **Rendering Mode** parameter is not stored as it was **not captured** in this bookmark.

- Activate Visual bookmark **leva_ruote** and you see that **Rendering Mode** parameter is captured in this bookmark.

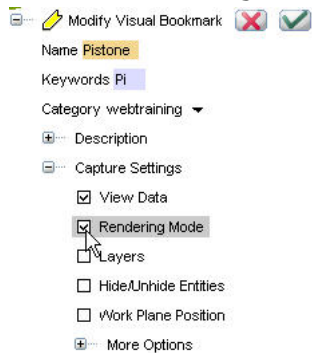


Let's now check how we can modify the capture settings of a Visual Bookmark.

- Activate again bookmark **Pistone**.
- Right click and say **Modify**.

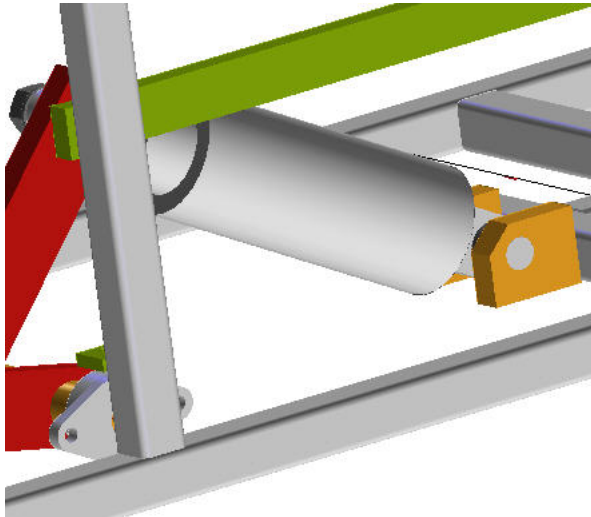


- Check **Rendering Mode** under Capture Settings



 OK

- Activate bookmark **a11** and set the view to **Wireframe View**.
- Activate bookmark **Pistone**

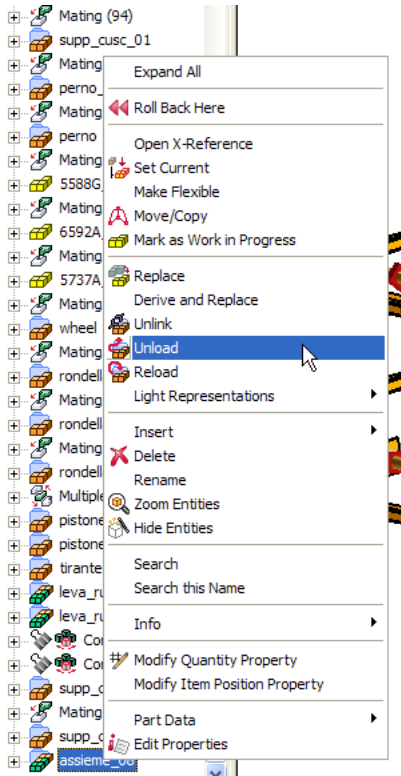


You see that component **assieme_08** again visible here.

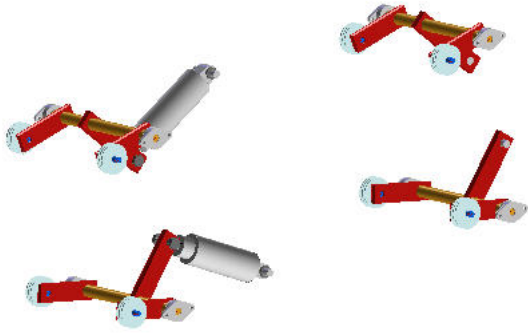
3. Step3 :More Options

In this step, we will look at using **More Options** in the Visual bookmark settings and try to correlate how they will be effective when working with large assemblies in ThinkDesign.

- Activate Visual Bookmark **a11**
- Go to **Model** environment
- Right Click on component **assieme_08** and say **Unload Component**.

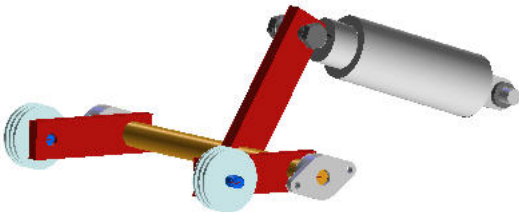


- Similarly **Unload Component** **tirante_01**



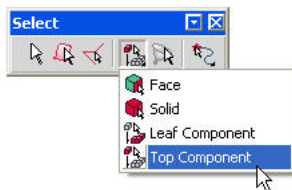
Let's now **hide** 3 of the 4 sets of components visible on screen.

- Using **Hide Entities**, hide 3 sets of the component.
- **Hide** all the Components till you are left with only one set of components as shown.

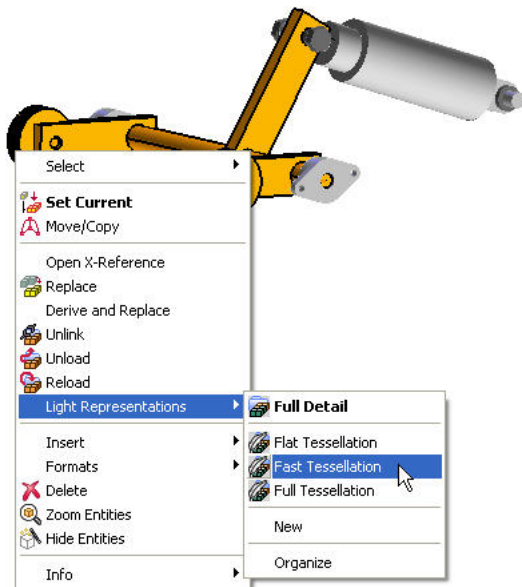


Let's now convert one component as a **Light Representation**

- Select Top Component from Select toolbar.

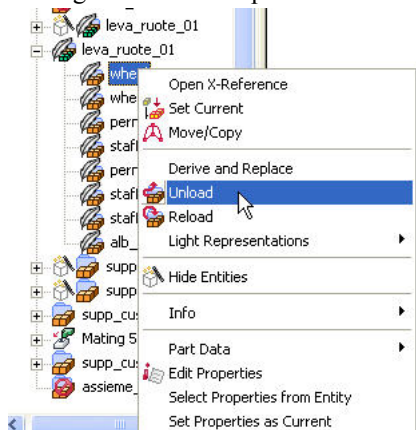


- Right Click Component `leva_ruote_01`. Set it to **Fast Tessellation** Light representation.

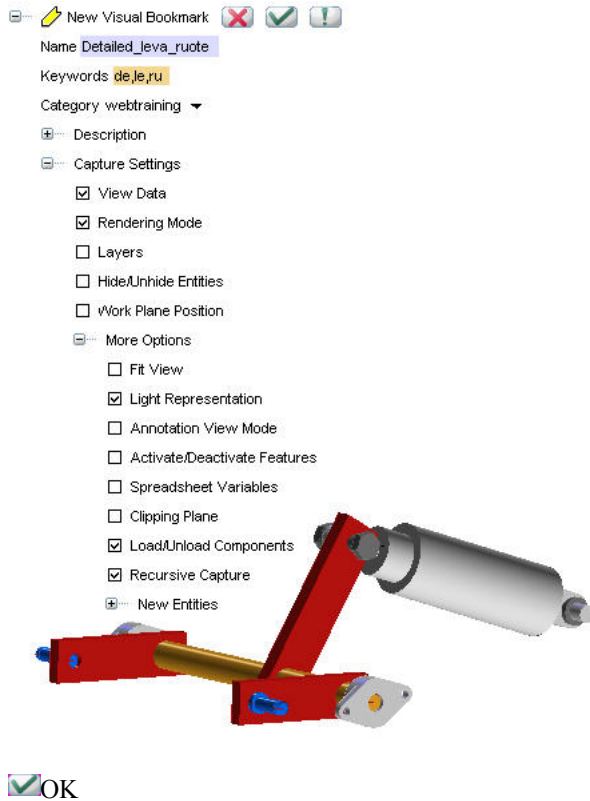


You may get warning. Save the file and try again

- Right click on component **wheel** in the Light Rep in History tree and Say **Unload Component**



- Create a **New Visual Bookmark** named **detailed_leva_ruote** as shown.
- Keep the flag on for **View Data** and **Rendering Mode**
- Expand More Options and check Light Representation, Load\Unload Component and Recursive Capture .



Note : A brief of each of these parameters .

LIGHT REPRESENTATION:When you select this option, the Visual Bookmark captures the information on X-Reference Components in Light Representation. This option only applies to models.

LOAD\UNLOAD COMPONENTS:When you select this option, the Visual Bookmark captures the information on loaded and unloaded components. This option only applies to models.

RECURSIVE CAPTURE:When you select this option, the Visual Bookmark propagates to all the lower assembly levels, in 3D environment or nesting levels, in 2D environment.

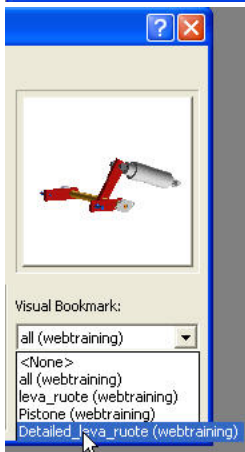
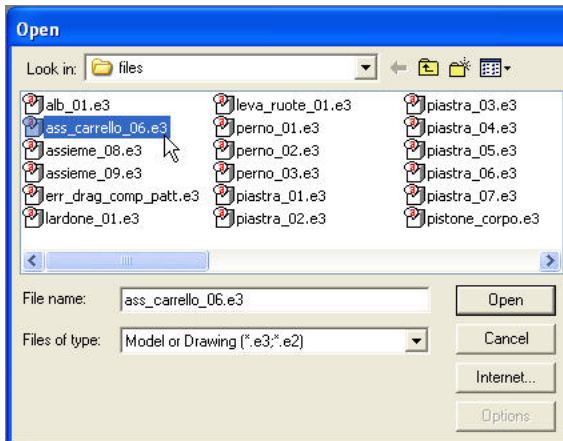
Save and Close the assembly

4. Step4 :Export-Import

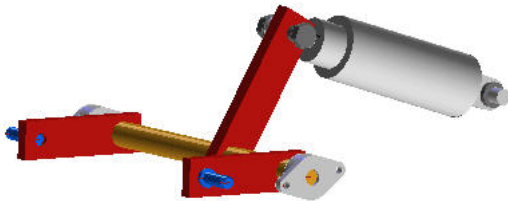
4. Step4 :Export-Import

Visual Bookmarks in ThinkDesign can be exported independent of the model and activated directly in a different model environment.Let's check it out.

- **Open File.**
- Browse to **ass_carello_06.e3**
- Set **Detailed_leva_ruote** bookmark in the right corner of the Window as shown.

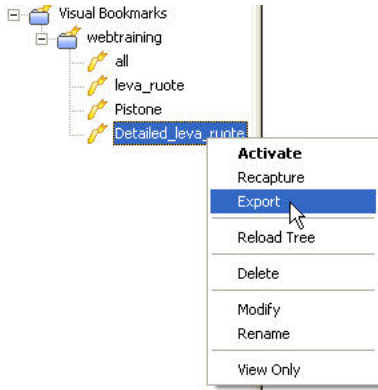


- Hit **Open**

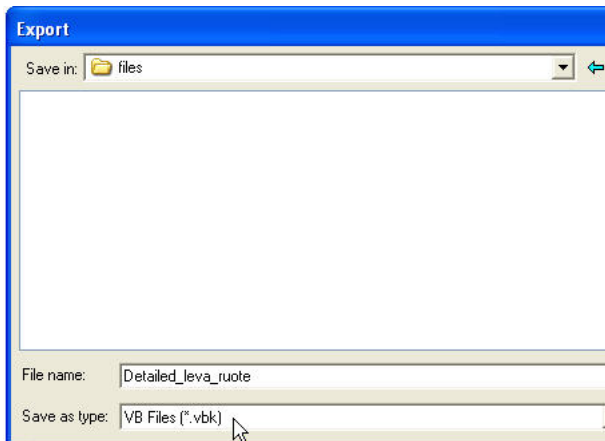


You see that the file Opens as per the settings in the Visual Bookmark. Let's now **Export** this Visual Bookmark

- Right Click on **Detailed_leva_ruote** and say **Export**




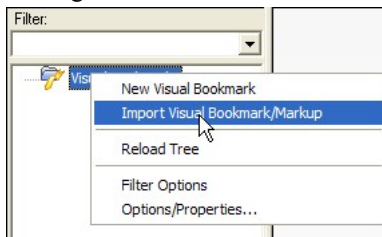
- Give File name **Detailed_leva_ruote.vbk** and hit **Save** in an appropriate folder on your hard disk.



- **Close** the assembly

Let's check out what happens when this Visual Bookmark is Imported into another similar file.

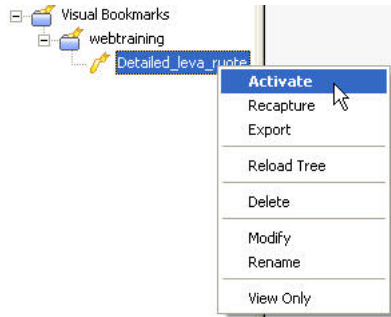
- **Open** **assieme_09**
- Go to  Visual Bookmarks tab
- Right Click on Visual Bookmark tree and say **Import**



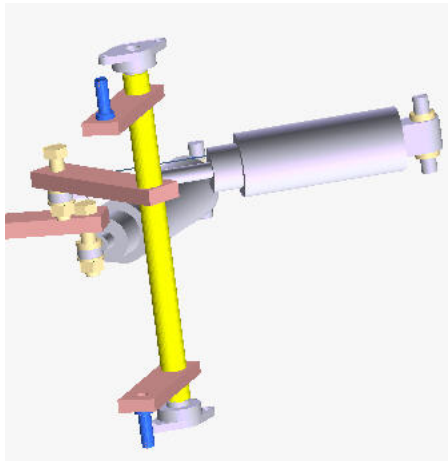
- Browse for **Detailed_leva_ruote.vbk** file and hit **Open**

The Bookmark shows up in the tree.

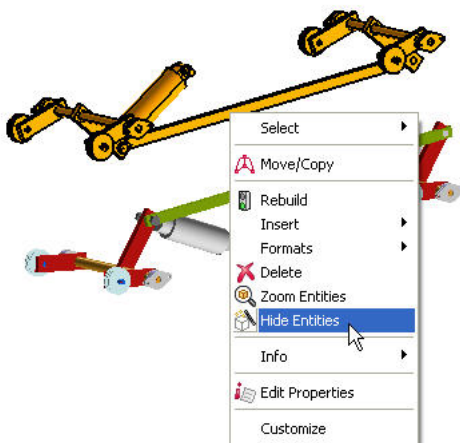
- Right click on it and say **Activate**



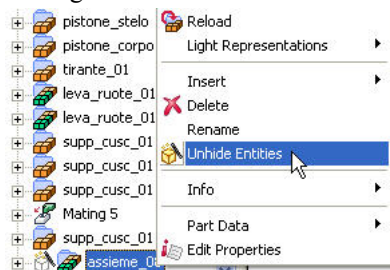
All our settings are kept!



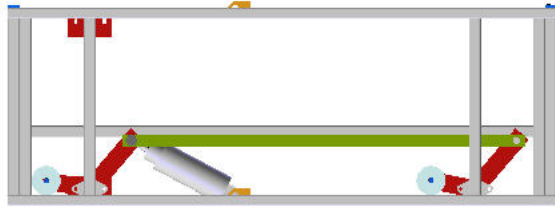
- Close the file
- Now **Open** `assieme_carrello_06` with Visual Bookmark **all** activated.
- Hide component `assieme_08`.
- Also **Hide Entities** as shown below.



- Right click `assieme_08` and Say **Unhide Entities**



- Press F8 to orient the model view as shown.



- Create a **New Visual Bookmark** named **Drawing**
- Check **Hide/Unhide** flag
- Set New entities Visibility to **hide**
- Keep other flags as shown



Name Drawing

Keywords Dr

Category webtraining

Description

Capture Settings

View Data

Rendering Mode

Layers

Hide/Unhide Entities

Work Plane Position

More Options

Fit View

Light Representation

Annotation View Mode

Activate/Deactivate Features

Spreadsheet Variables

Clipping Plane

Load/Unload Components

Recursive Capture

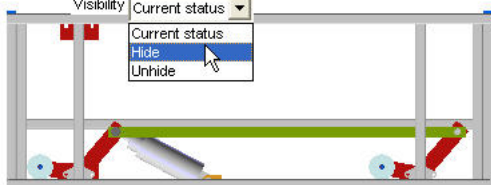
New Entities

Visibility Current status

Current status

Hide

Unhide

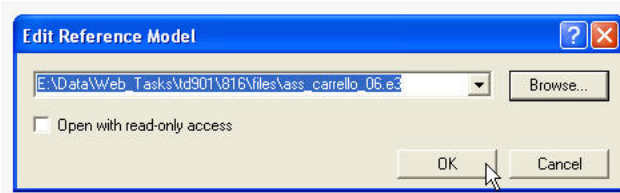


OK

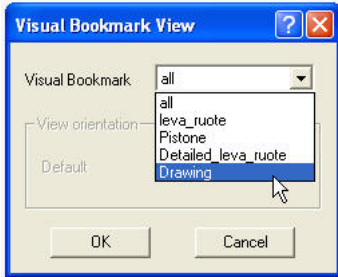
- Activate Visual Bookmark **a11**

Let's now see how a Visual Bookmark when activated in a drawing environment works.

- Open a **New Drawing** file
- Go to **Insert** → **Drawing View** → **Main** → **Visual Bookmark**
- Browse to file **ass_carrello_06.e3**
- Hit **OK**



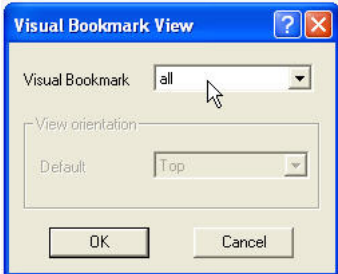
- In the pop up set Visual to **Drawing**



- Hit **OK**
- Hit **OK** for all the messages.

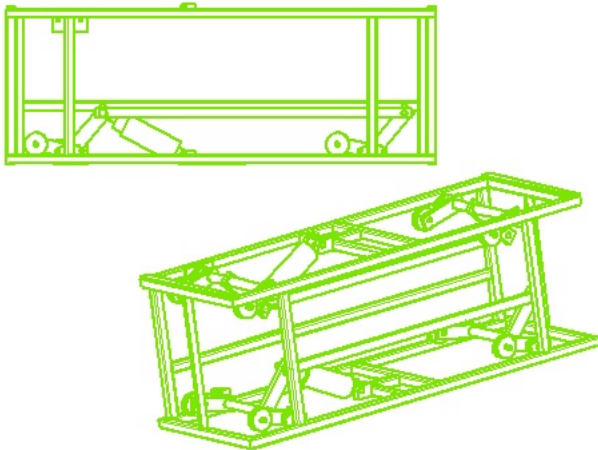
Note that already **Top** as default **VIEW ORIENTATION** is available because you had flagged the option **VIEW DATA** checked when the Visual Bookmark was created

- Insert another view, this time with Visual Bookmark all activated.



- Hit **OK**

The Drawing views orient as per the data captured in the respective bookmarks.

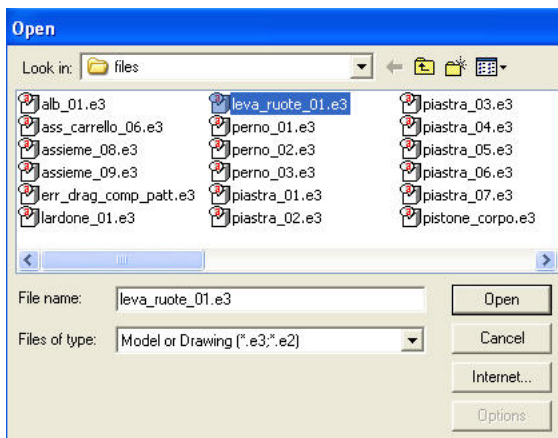


You have seen how **visual Bookmarks** is a very effective tool for conveying useful visual information of a design specially when working with large assemblies.

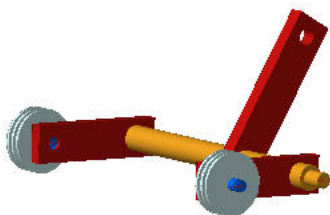
Visual Bookmarks in ThinkDesign can use also spreadsheet variables, storing information to create some different configurations

- **Open File.**
- Browse to

leva_ruote_01.e3

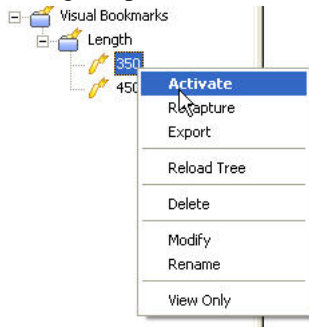


- Hit **Open**

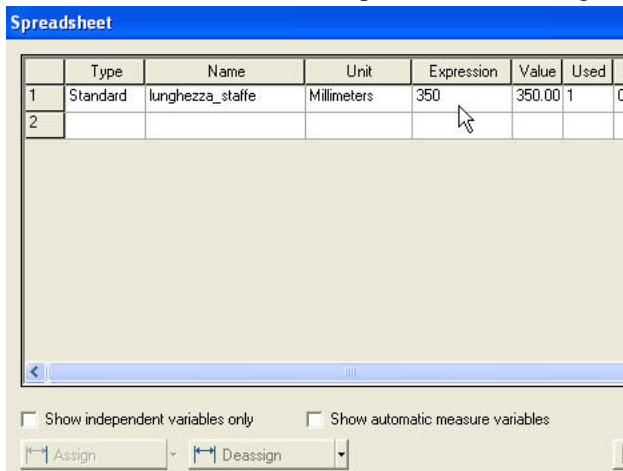


You see that the file has already two visual bookmarks called **350** and **450**

- Open **Spreadsheet** and see that **lunghezza_staffe** value is set to 217. Close this window.



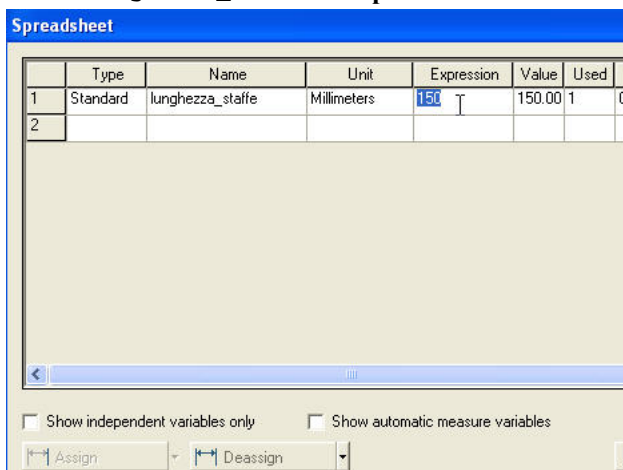
- Activate **350** vb and see on **Spreadsheet** how **lunghezza_staffe** is now set to 350.



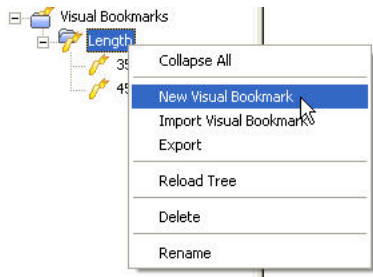
- Make the same thing using **450** vb

Try now to create a new vb keeping spreadsheet value.

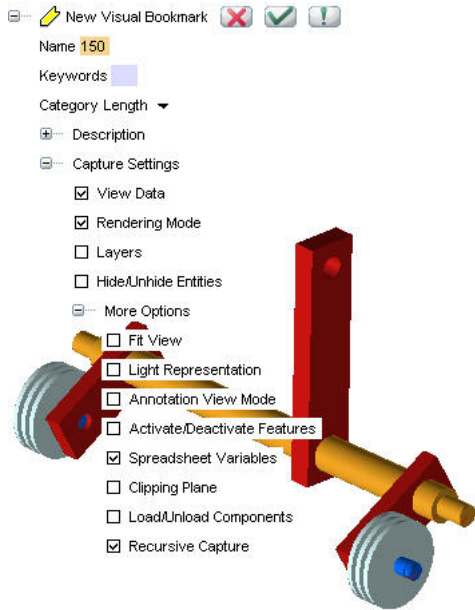
- Set **lunghezza_staffe** on **Spreadsheet** to 150.



- Go to Visual Bookmarks tab
- Right Click on Visual Bookmark tree (Length category) and say **New Visual Bookmark**

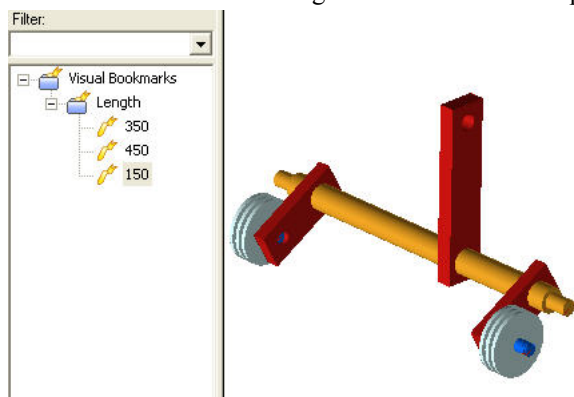


- Call it 150, Expand Capture Settings and Check View Data and Rendering mode
- Expand More Options and check Spreadsheet Variables and Recursive Capture.



OK

- Switch to 350 and then again to 150 to see how spreadsheet value is stored inside visual bookmark



A.

- Introduction to Assemblies.
- How to manage Assemblies.