

# Tips and tricks

21.09.2017 – E.Urrutia

# CGR size optimization

# Some parameter changes can increase the created CGR file size when a CATIA file is saved

► Time of preview or large assembly opening will be impacted by the CGR file

CAD Service website Services Support **FAQ** Methodology Training

Search this site

## CAD FAQs

FAQs

- Dashboard
- SmarTeam
- CATIA - General
- CATIA - Getting Started
- CATIA - Part Design
- CATIA - Assembly Design
- CATIA - Drafting
- CATIA - Routing
- CATIA - Wireframe and Surface Design
- CATIA - Sheet Metal
- CATIA - Knowledge and optimizer
- CATIA - Generic Tools
- CATIA - Integration and Reverse engineering
- SmarTeam - Life Cycle
- Viewers

Recent

Site Contents

### Index

- Dashboard
- SmarTeam
- CATIA - General
- CATIA - Getting Started
- CATIA - Part Design
- CATIA - Assembly Design
- CATIA - Drafting
- CATIA - Routing
- CATIA - Wireframe and Surface Design
- CATIA - Sheet Metal
- CATIA - Knowledge and Optimizer
- CATIA - Generic Tools
- CATIA - Integration and Reverse engineering
- SmarTeam - Life Cycle
- Viewers

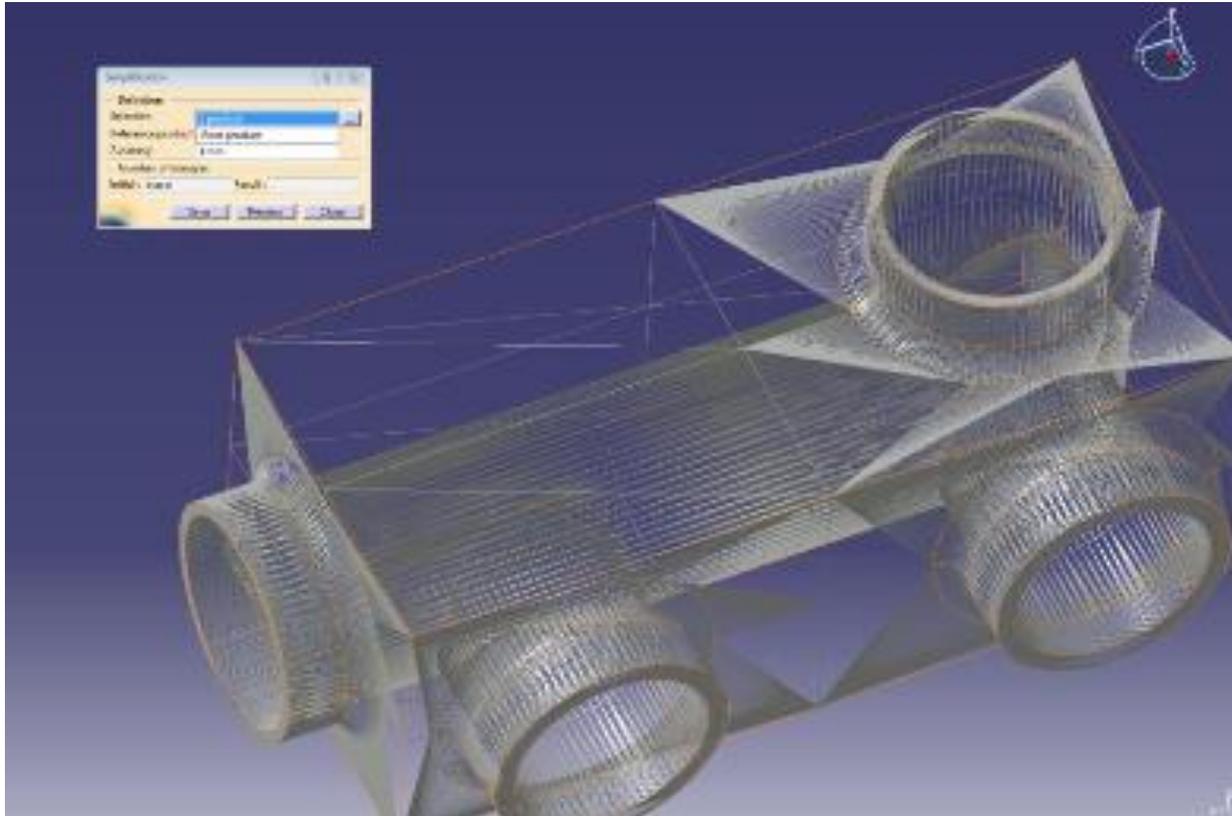
### New and Updated FAQs

Img	Title	Question	Update Summary
	CGR file size	What are the parameters which impact the CGR file size?	
	Main functions of DMU Optimizer	What are the main features of the CATIA DMU Optimizer workbench?	
	Web Viewer	How to use Web Viewer from Actify?	
	Quick access to project when saving as in SmarTeam	How to quickly access a specific project during the first saving (save as) of a document in smarteam?	
	Quick access to a 3D from the 2D in Catia	How to open a 3D from the corresponding 2D in Catia?	
	New Release	What is "New Release" state? How to perform a "New Release"?	
	Cancelled	What is "Cancelled" state? How to perform "Set to Cancelled"?	
	CDD Numbers Tool	How to add or remove CDD numbers to 3Ds and ITEMS?	
	TEAMS and E-Groups	How to create an e-group for a TEAM?	Update Privacy Policy -> CERN Users
	LC Overview	Overview of the Life Cycle implementation	

FAQ is available to know how to reduce this size or to prevent the increase

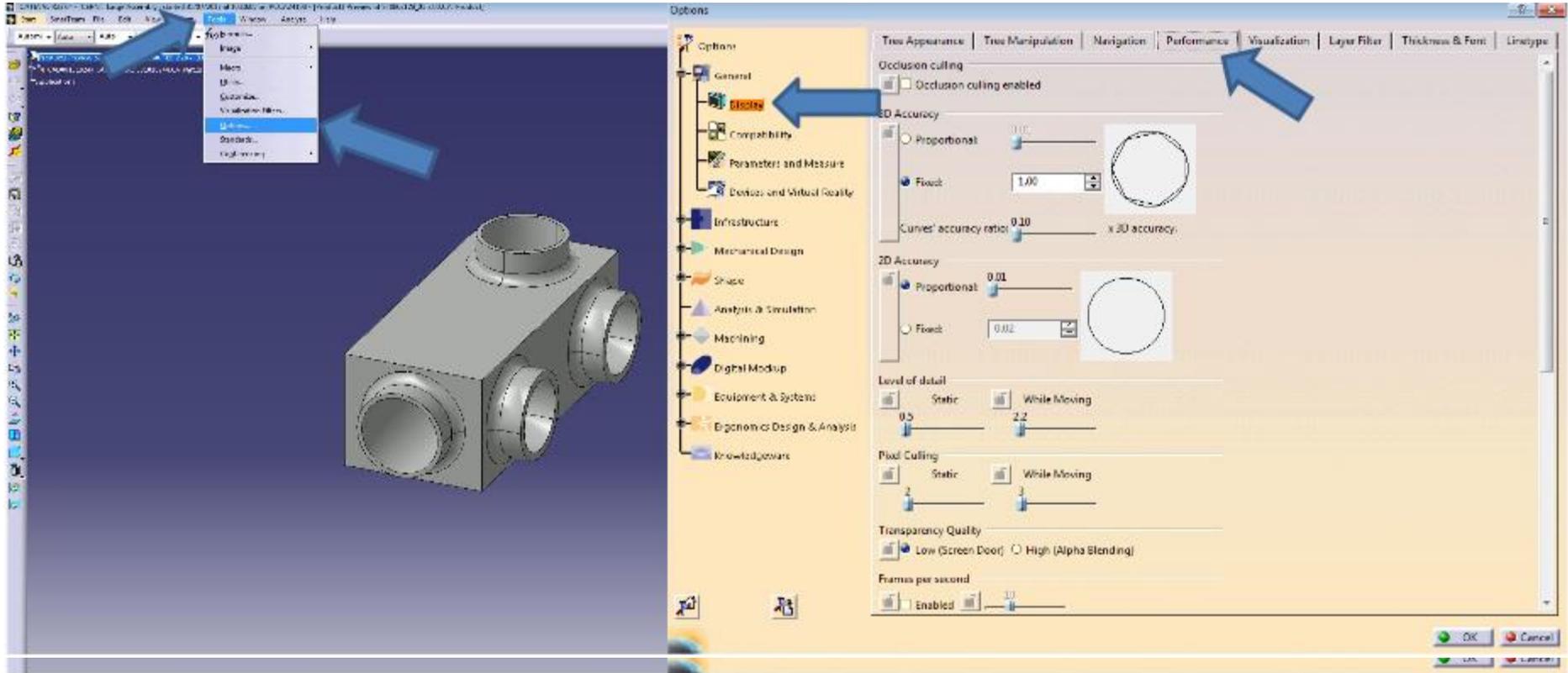
# Main principles

Estimate file number of triangles which directly affects CGR size file



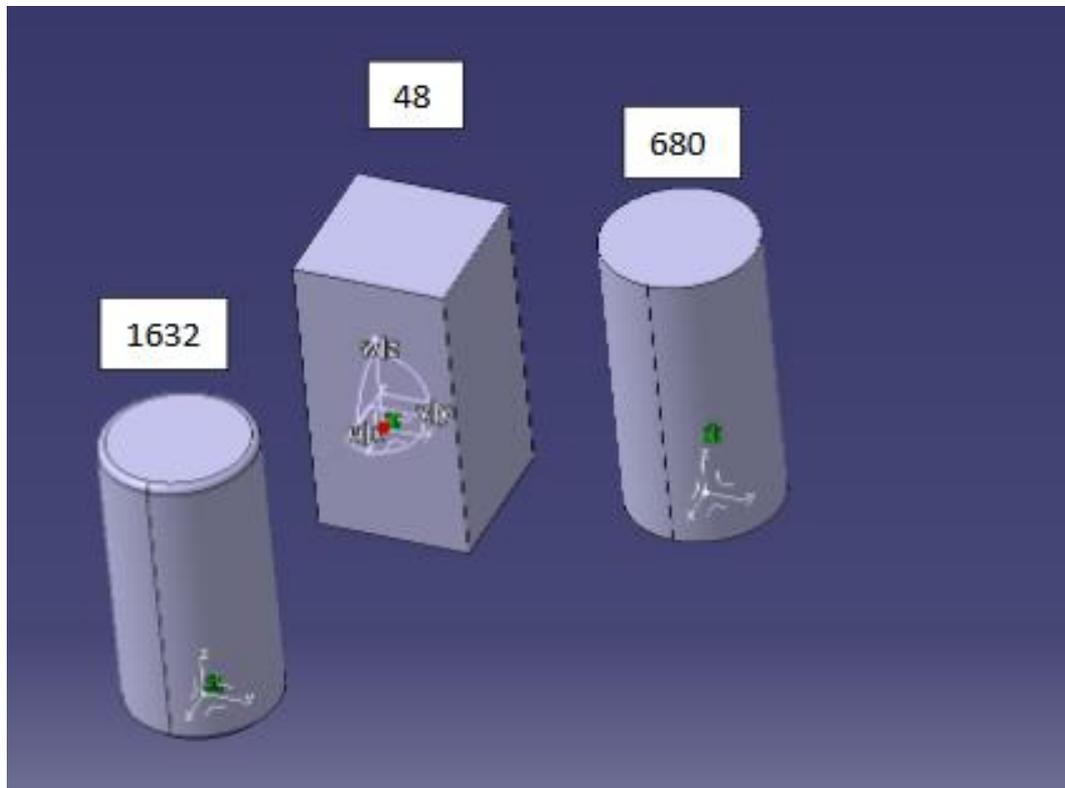
# Main principles

Keep recommended 3D accuracy value



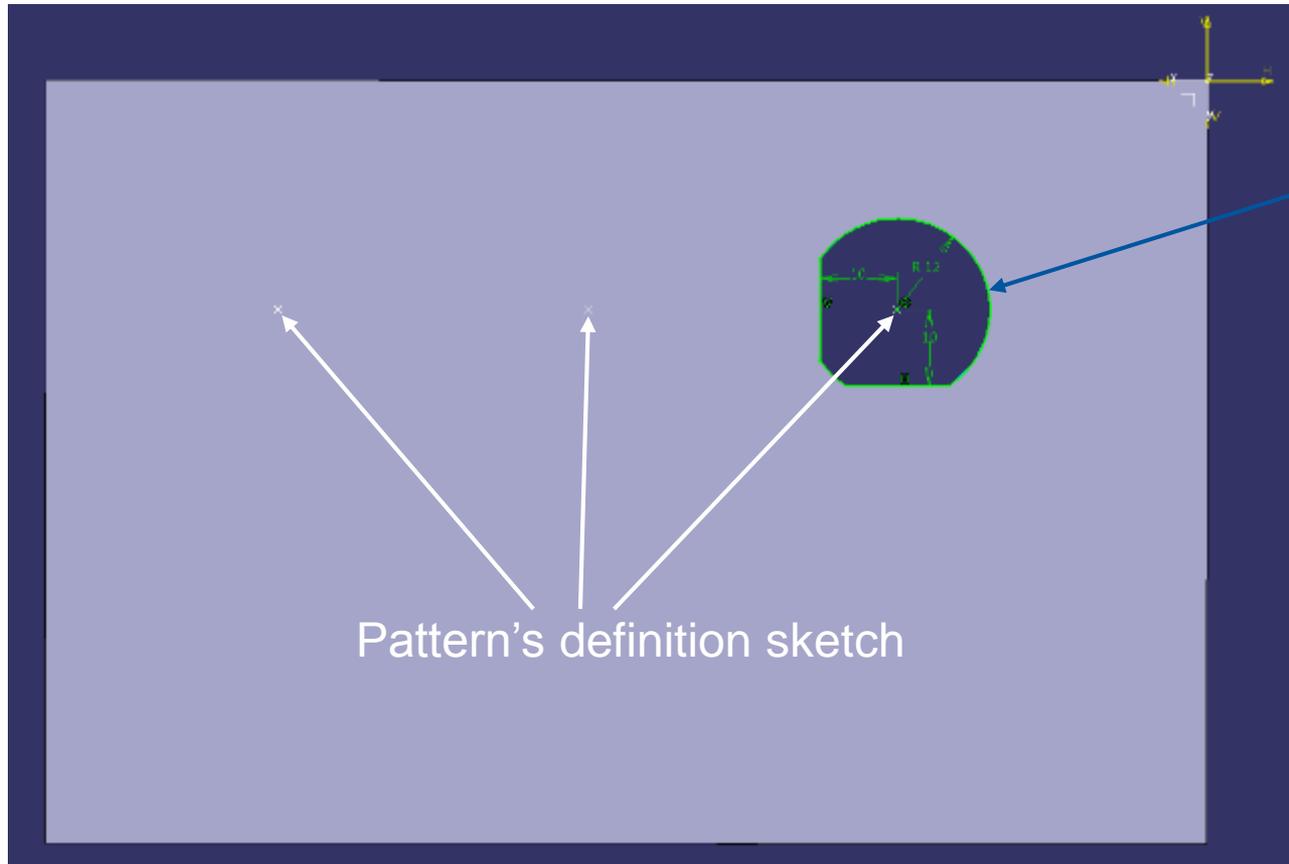
# Main principles

Avoid unnecessary detail when possible

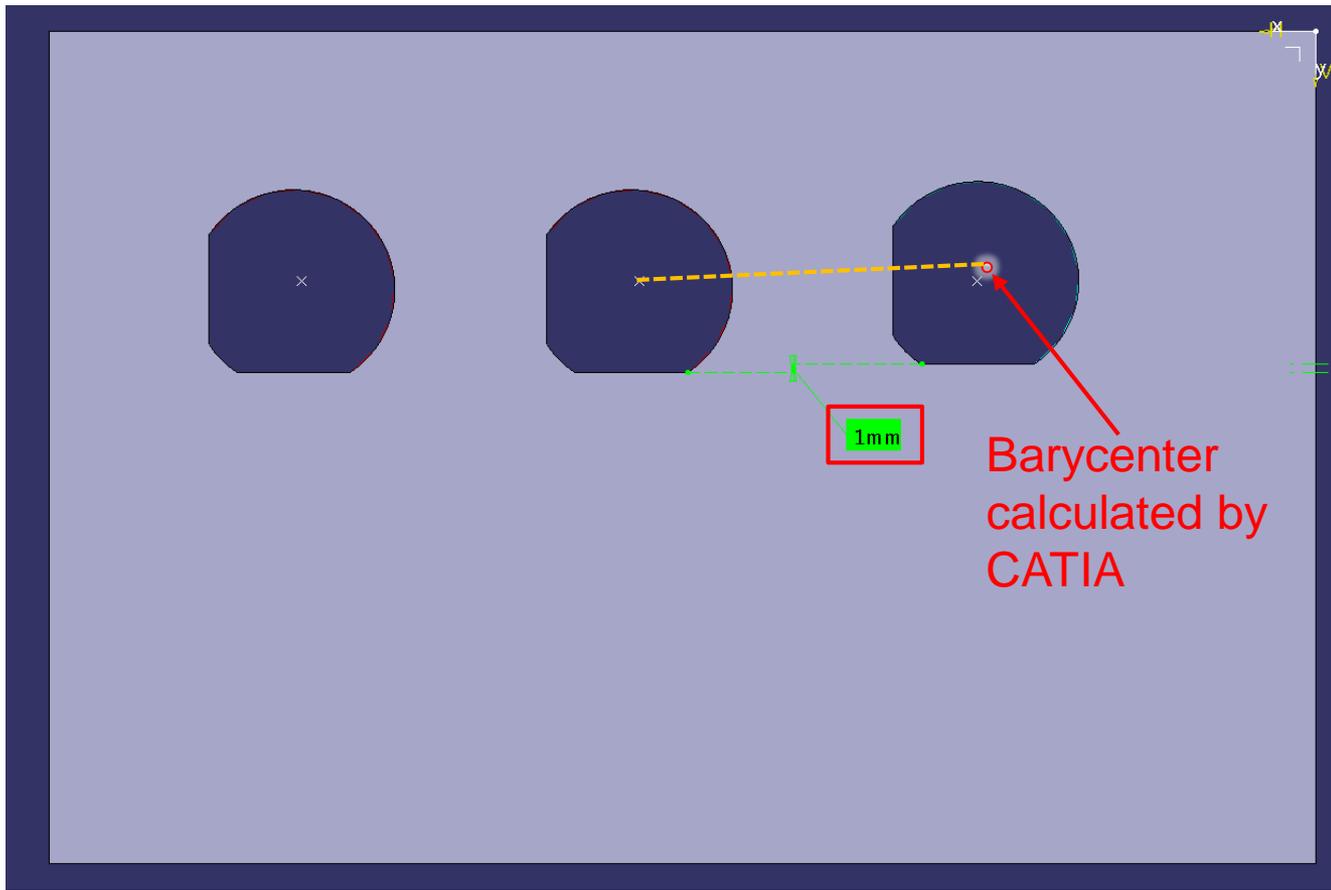


# User pattern behaviour with non homogenous shape

# User pattern default behaviour



# User pattern default behaviour



Little mistake  
non visible at  
first glance can  
appear!



When user pattern is created, barycenter of the shape taken into account for reference point

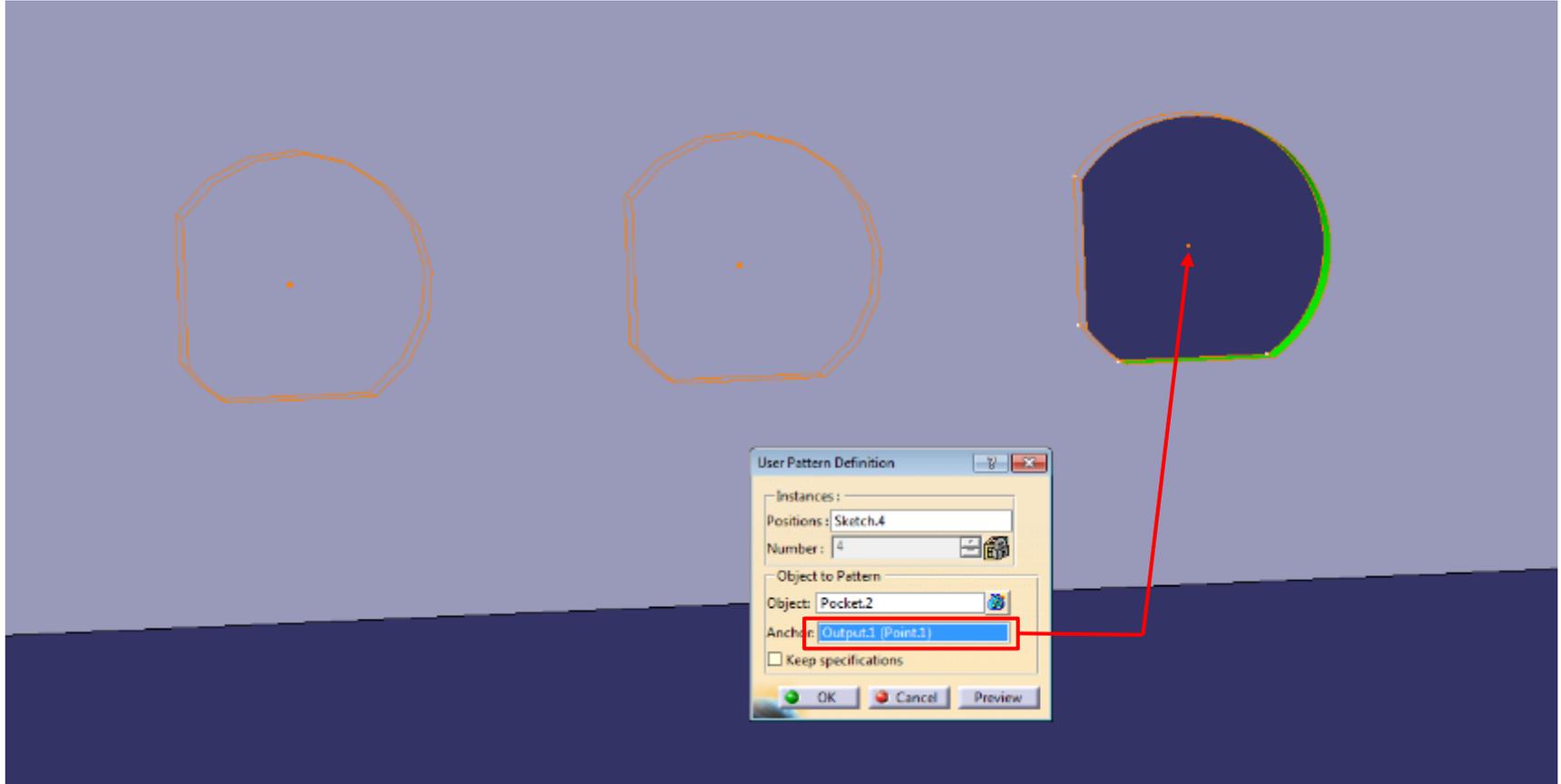
# Anchor point application



Use output feature to extract your own reference point....

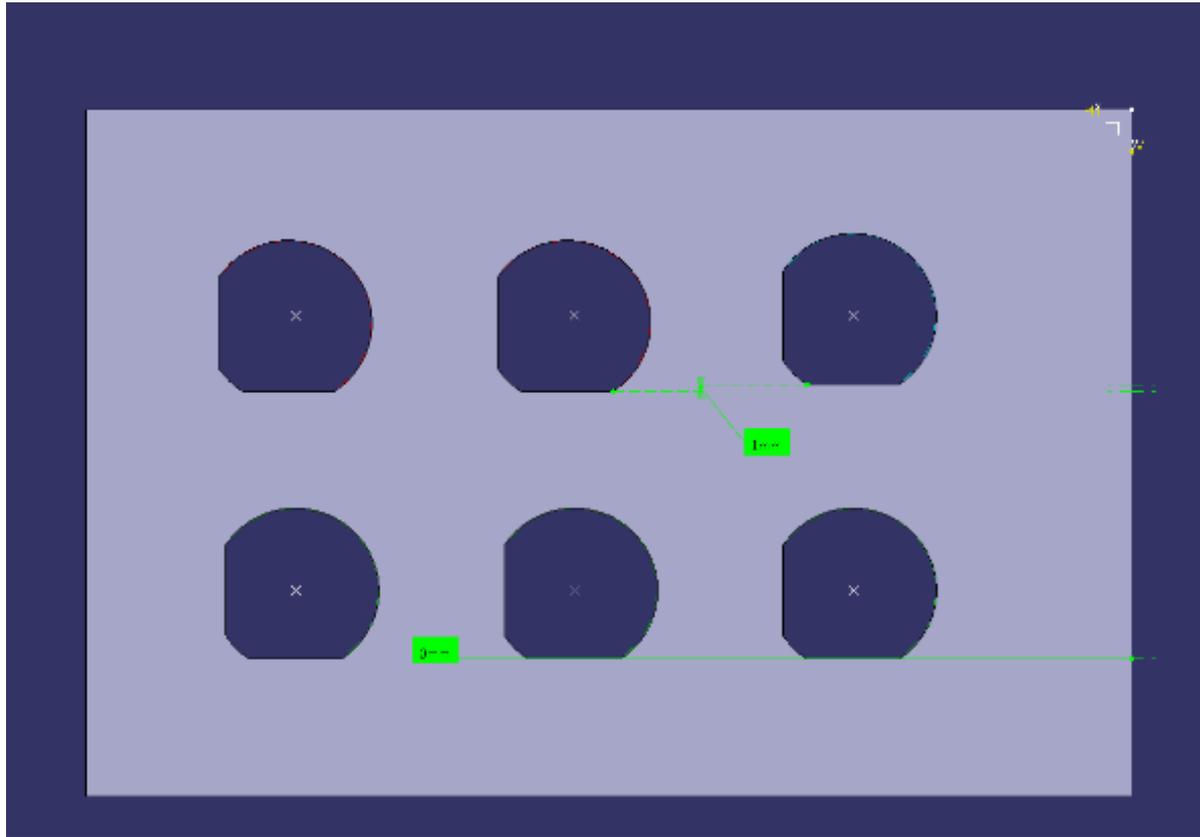


# Anchor point application



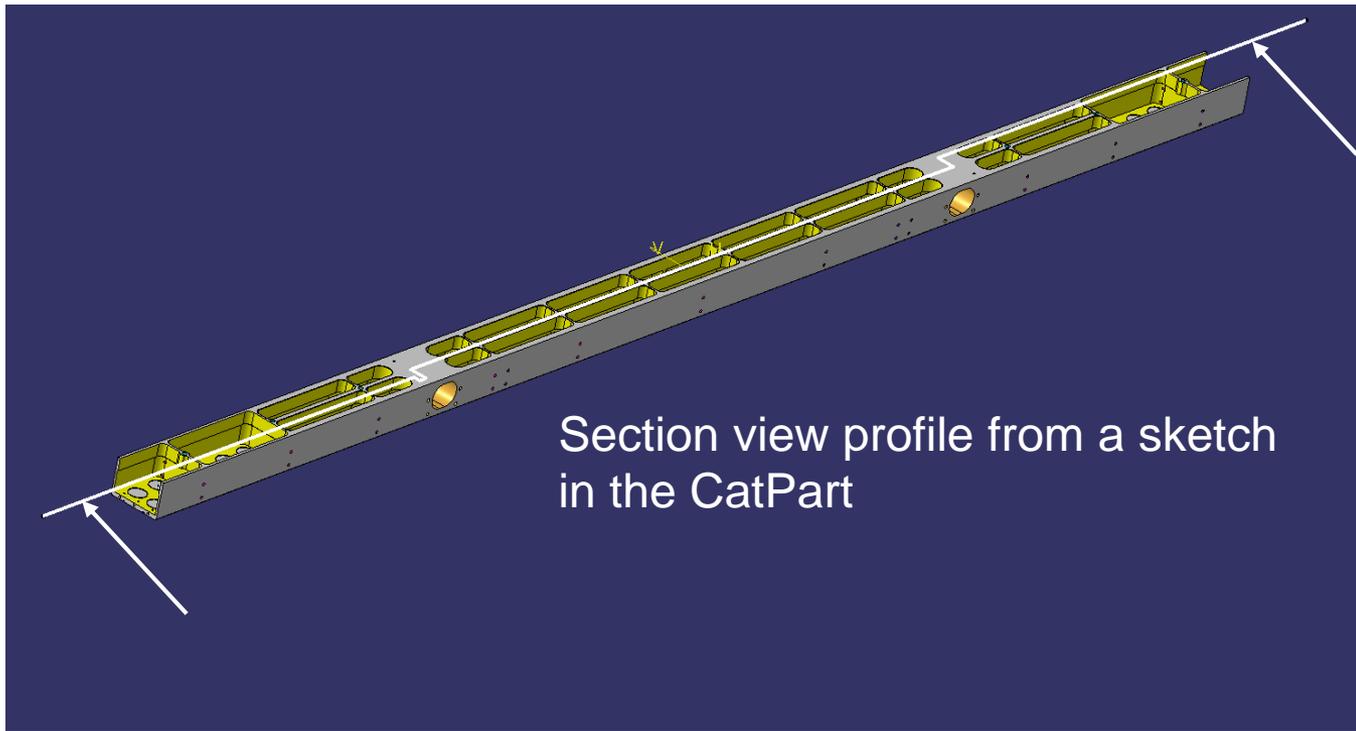
And specify it in the user pattern's dialog box

# Anchor point application



Repetition is correct

# Sketch-driven section view



Can be useful in specific  
case for a precise & linked  
section view profile

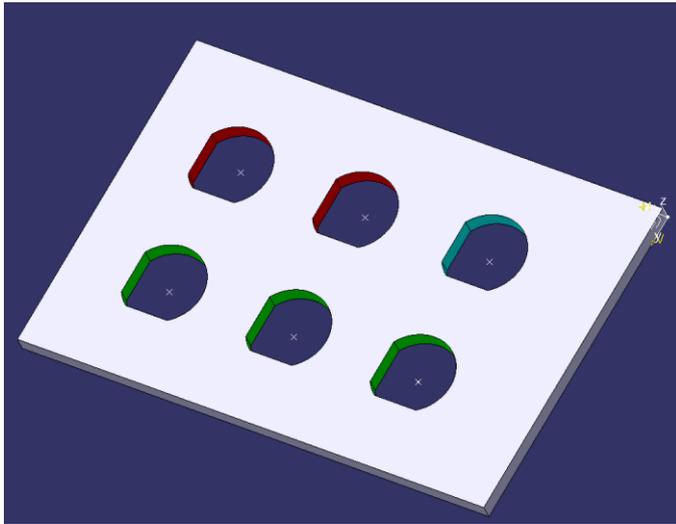
But under condition :

- Preferably for a drawing from a CatPart (a skeleton will be necessary for a CatProduct to store the sketch properly)
- Rename clearly & store the sketch in a specific Geometrical Set
- Publish sketch to avoid any accidental deletion («delete useless elements» fonction for example)

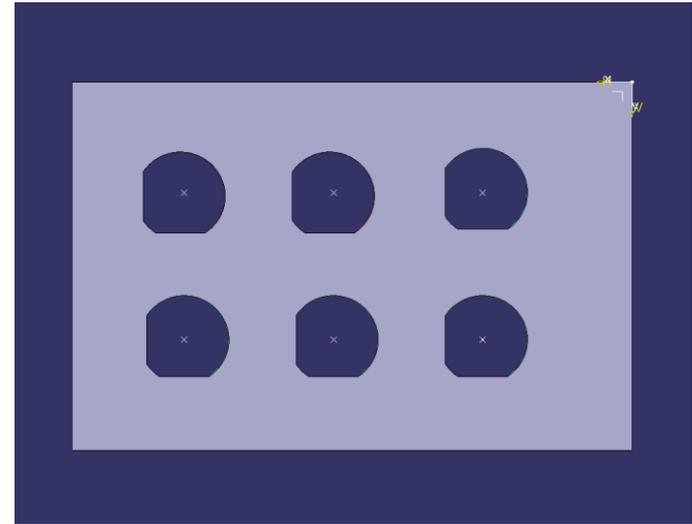
# Align viewpoint tool

Automatically modify the viewpoint so that the most seen plane of the absolute axis system is set parallel to the screen

FROM



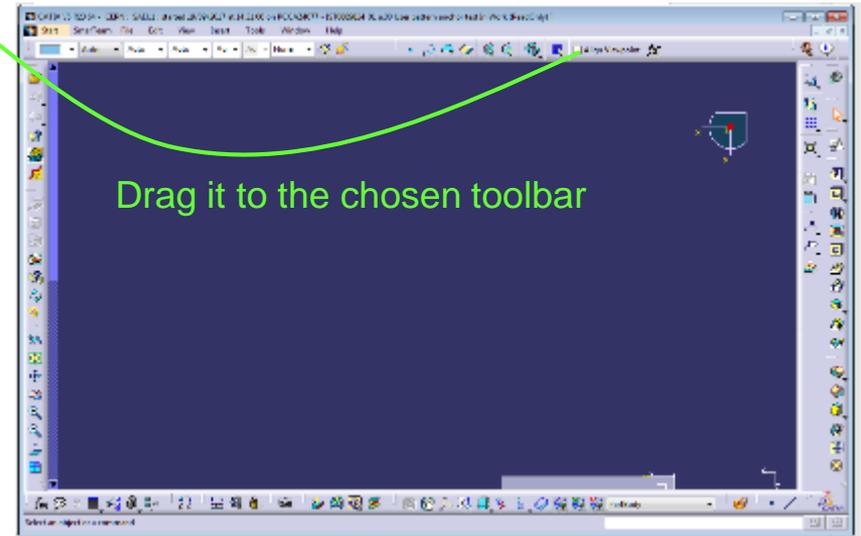
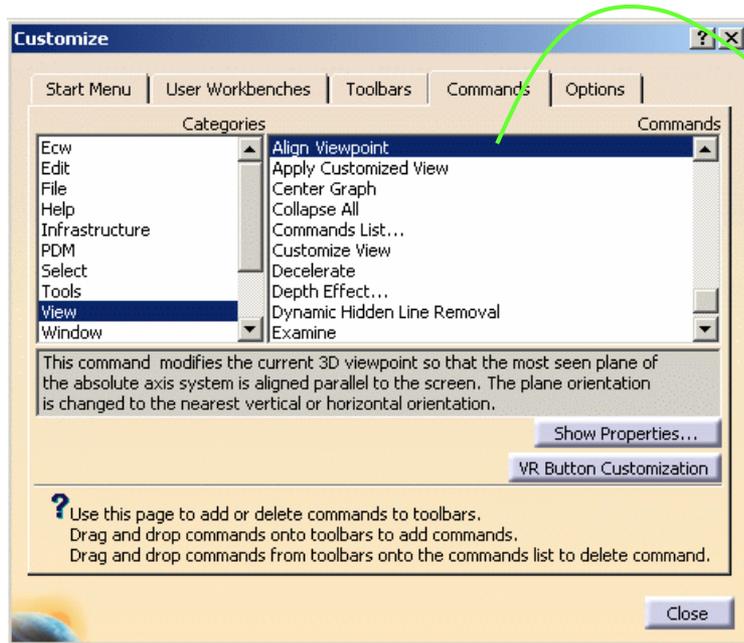
TO  
→



IN 1 CLICK

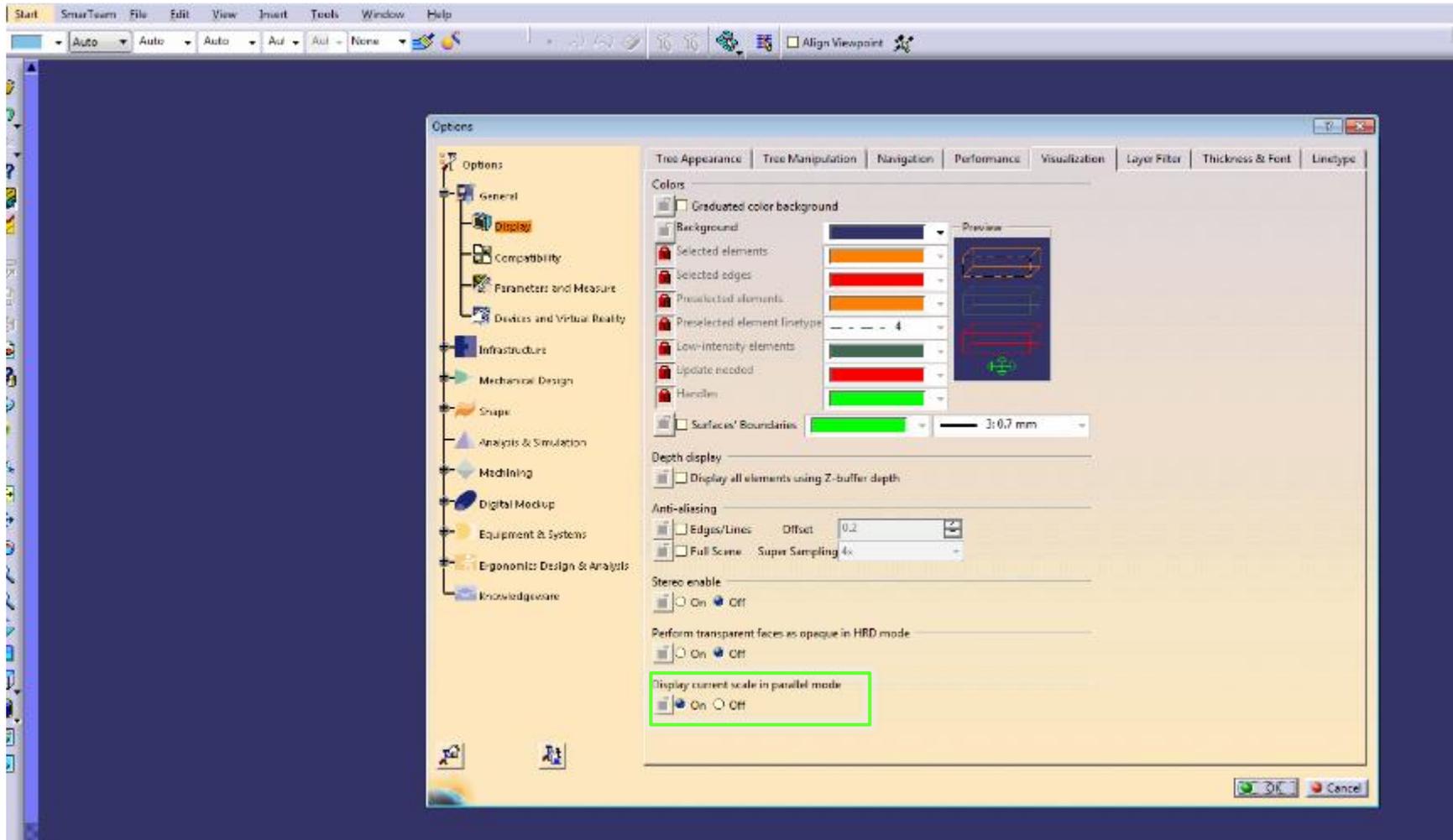
# Icon installation procedure

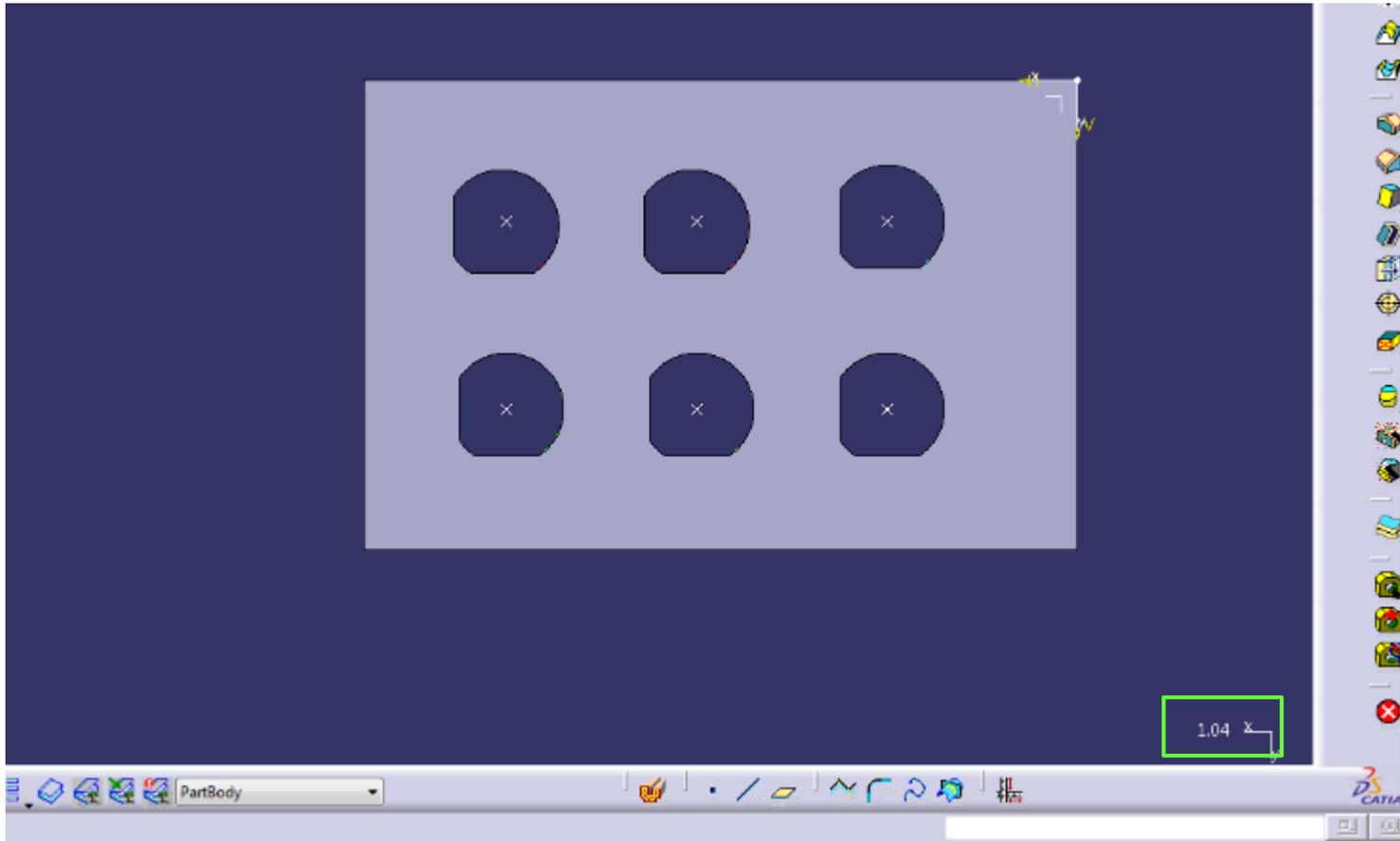
Tool ► Customize ► Command tab



# Display current scale

# Tool ► Options ► Display ► Visualization





Measure manually on dimension with a ruler to check veracity of the displayed scale

In my case the real scale 1:1 is at 1.04