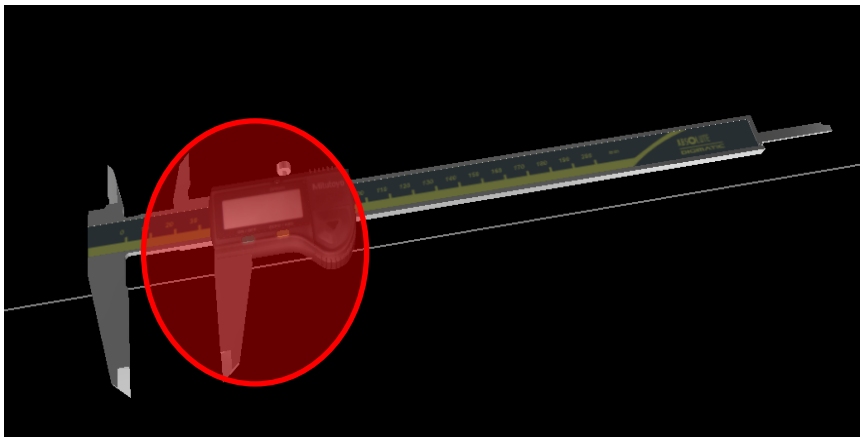
About the Program

1. Pied Coulisse

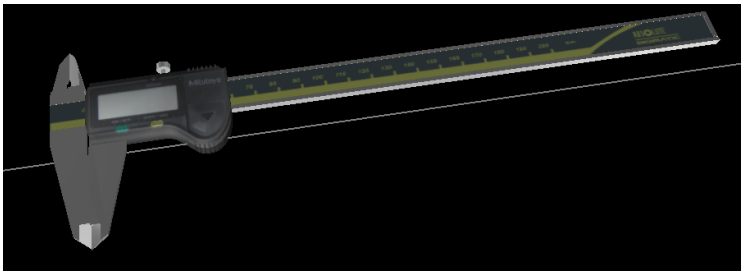
The part is separated into two parts: Caliper and Slide (part inside the red circle). The name is used in the “Association” function to translate and rotate these two parts.



2. How to Use

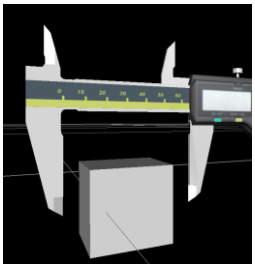
a) If no part inside, the caliper will close, with message:

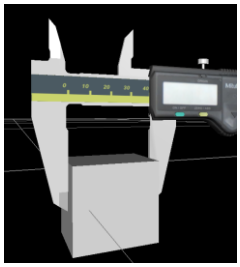
> > > > loop: 1 > > > >
No measurement part !
CRT: 0



b) If have part inside (one or more), it will measure and return message:

> > > > loop: 1 > > > >
CRT: 0.025
> > > > loop: 2 > > > >
CRT: 0





3. About Functions

1) "matrix.lua" is used
2) "metrology.lua": modal developed to conduct measurement.
   Inside it, "metrology.Caliper_A()" is the method used for the caliper measurements
   There will be more methods for different type of measurement.
3) "optimize.lua": modal developed to do optimization.
   Currently, only have "optimize.simplex()", may be extended latter.

In the main graph of simulation in Inscape3D, a function called "Association" is running automatically. It is the function to measure. Inside it, the three packages (matrix, metrology, optimize) are required.