


## Automatic 3D Points reconstruction, how does it work?

 **Rhinophoto** automatically creates 3D points from a set of photos taken with positioned coded targets. Each target corresponds to a Number. This Number is read by **Rhinophoto** from the photo and allows it to automatically create 2D points on the images at the center of the target. Then **Rhinophoto** computes **3D point positions** from **2D points on each images** and creates **Rhino 3D points**.

Method :

1 - Position a **coded target** at each **point that you want to modelize**. (~ 10 minutes for 50 targets / 100 Points)



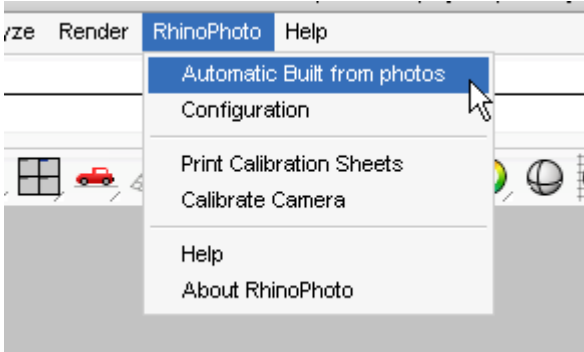
2 - Position **special coded targets** representing the **origin** and one of the axes.



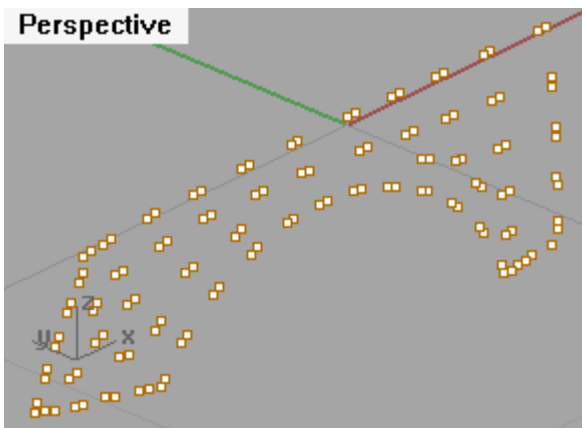
3 - Take a **series** of **photos** of the scene and copy all these photos into an empty folder.(~ 5 minutes)



4 - Run **Rhino**, then the **Rhinophoto** command and load a photo from the list.



5 - **It's finished...** Everything is automatic, after calculations (the time depends on the number of images but just a couple of minutes is sufficient), **Rhinophoto** creates the 3D points in Rhino.



You can now **modelize surfaces** by the points.

