



Content Creation

Part 2 – Reference Planes, Geometry and Constraints

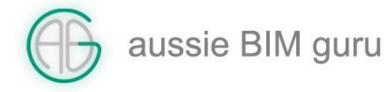


Sessions

- 1. Planning it out
- 2. Reference planes, geometry and constraints
 - 3. Parameter, formulae and coding
 - 4. Graphical settings and final touches

Advanced techniques

- Parametric arrays
 - Lookup tables Etc.



See it as this...

- 1. Method
- 2. Framework
 - 3. System
 - 4. Polish



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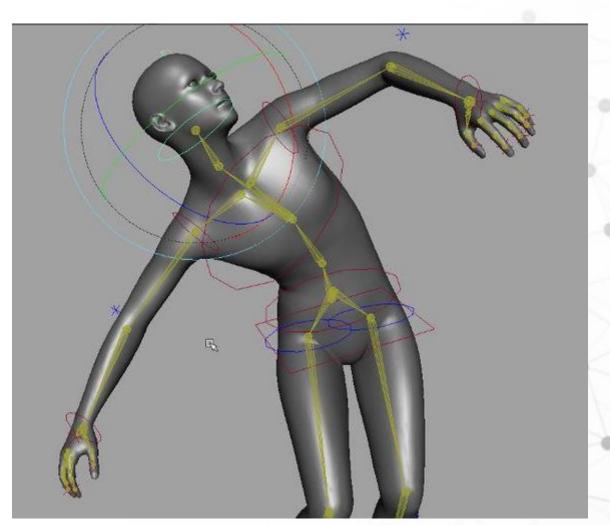




Reference Planes

Before Geometry!



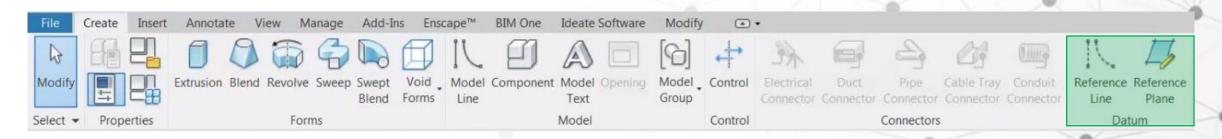




Reference Planes/Lines

Used to create elements which we can constrain elements to.

Planes = infinite length Lines = finite length

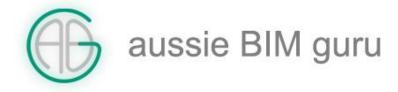




Reference Planes/Lines

Types of Planes

Front, back, left, right etc.
Strong Reference
Weak Reference
Not a Reference



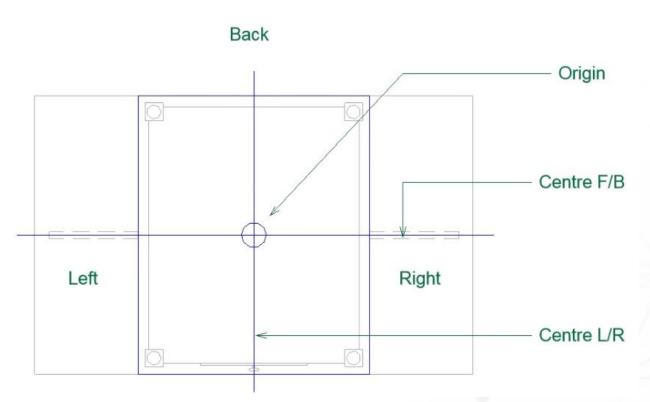
Strong vs. Weak

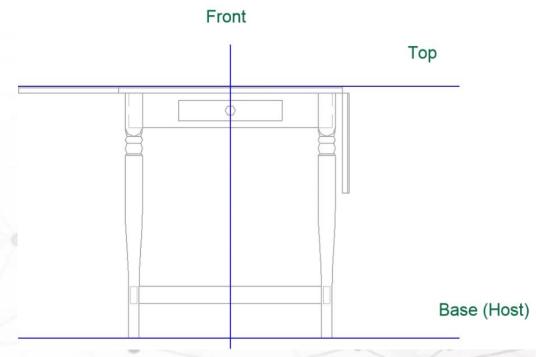
Strong will dimension/snap before weak

Strong will **move** the family, weak will move with the family



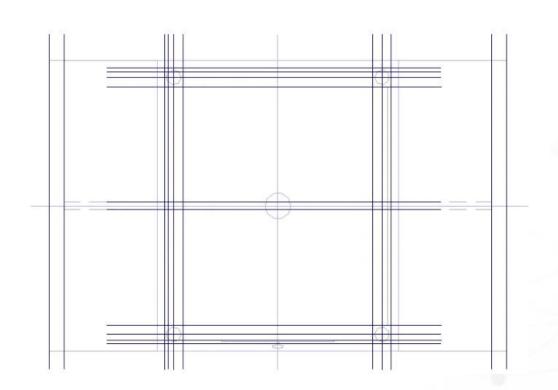
Strong/Named Planes

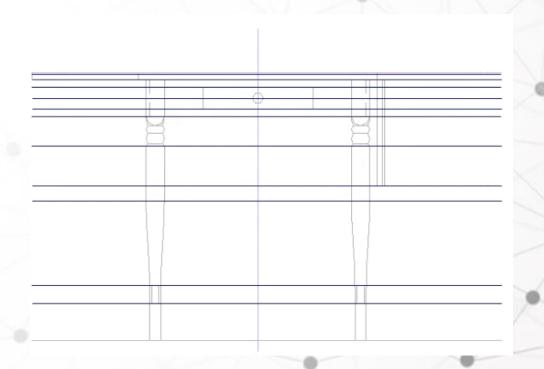






Weak/Not a Reference Planes







Without further ado...

Let's set up our references



Geometry comes

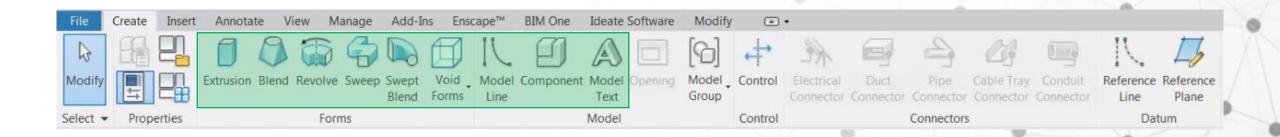
After references

As we can constrain to it!



Types of Geometry

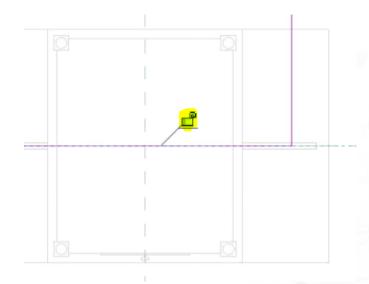
Each is useful for building families

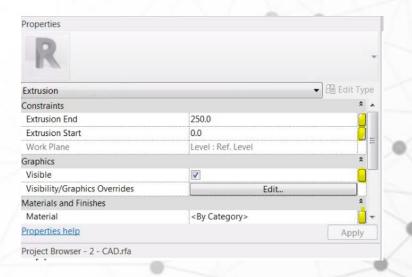




Constraining

Basically, the **locking** of elements... (or data)







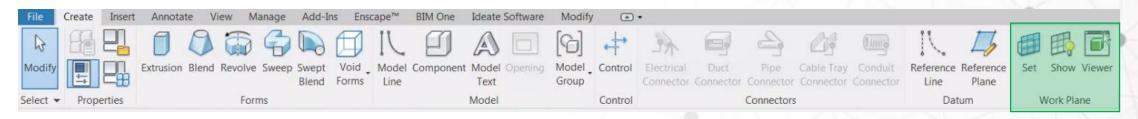
Do not Constrain to Geometry, Constrain to References

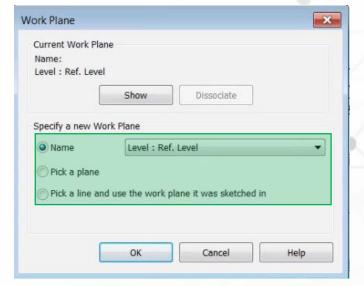
(Unless it is absolutely necessary)



Set Work Plane often...

Does not always have to be the plane you draw in...







Without further ado...

Let's set up our geometry



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