FreeCAD World

[notes]

Config types

[all types and values (except str("eg. Value or valUe")) are case sensetive]

• **int():** integers: (1, 2, 15, 144, 2048, etc);

• **float():** floating point numbers: (1.2, 2.3, 15.123, 144.9, 2048.1024, ¾, ½, etc);

• **bool():** boolean **True** or **False**, 1 or 0. (In real life is **On/Off**);

• **tuple():** in config used as **comma separated** tuple of integers or floats;

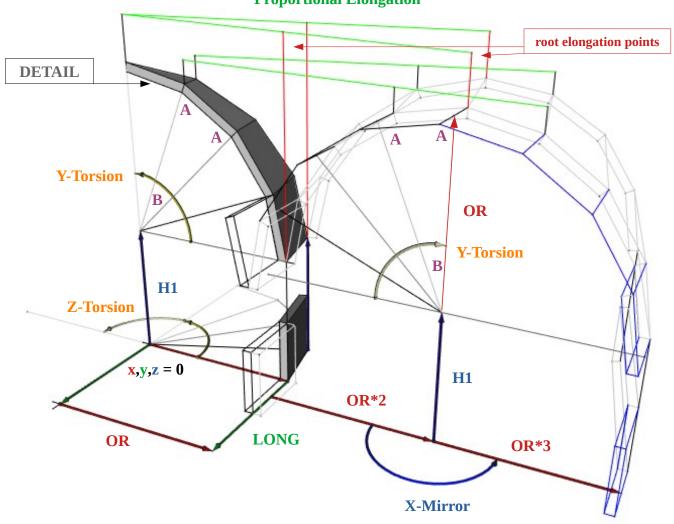
• **str():** string as any human readable words, eg **str("CORNER")**;

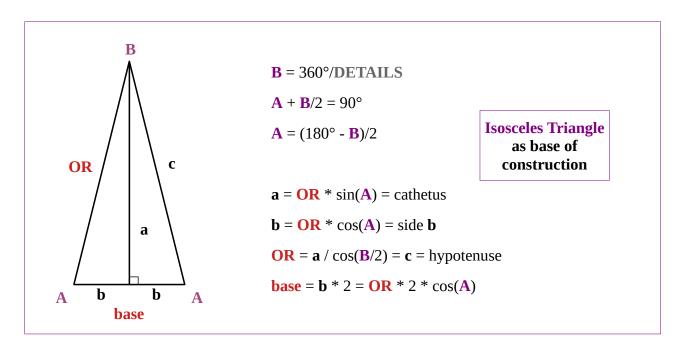
• **dict(): comma separated** dictionary of options: str(key) = value, where value may

be **one** of described above types;

The Principle

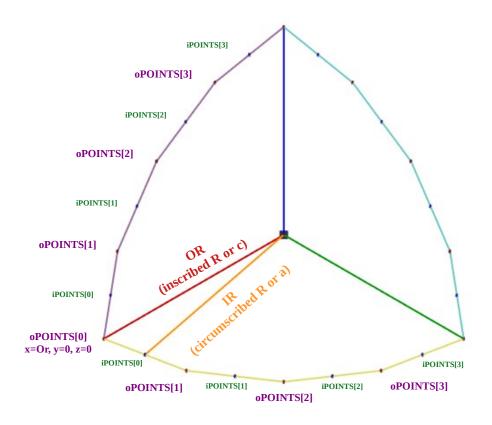
Proportional Elongation





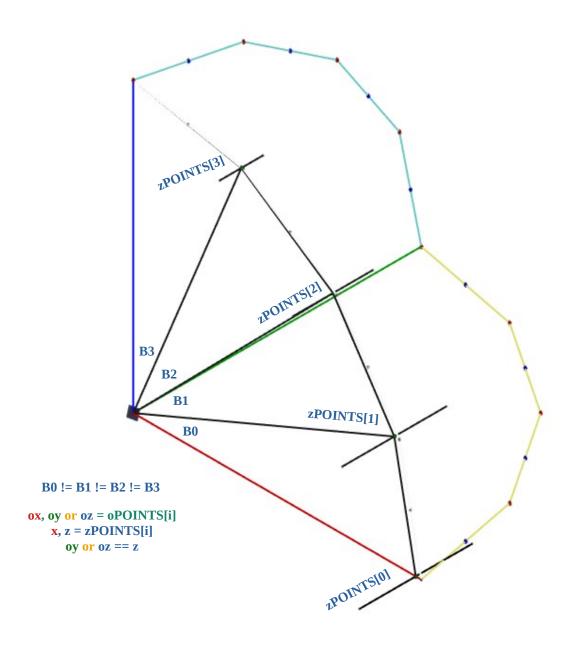
Pointing

- oPOINTS;
- iPOINTS;



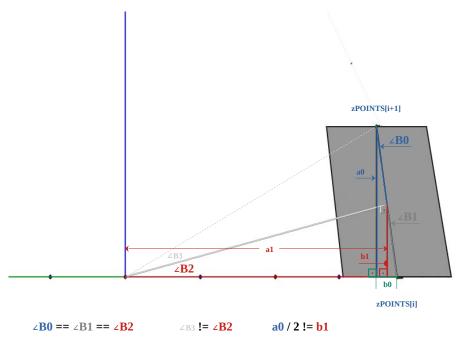
- oPOINTS or iPOINTS = PairOfCompasses.clockWiseArray(x, y);
- oi_pointing.FCStd;

zPOINTS;



- TwoPoints.zPolyPoints(Or);
- z_pointing.FCStd;

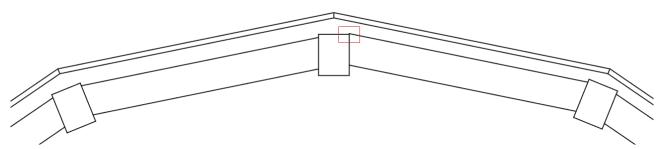
fPOINTS;



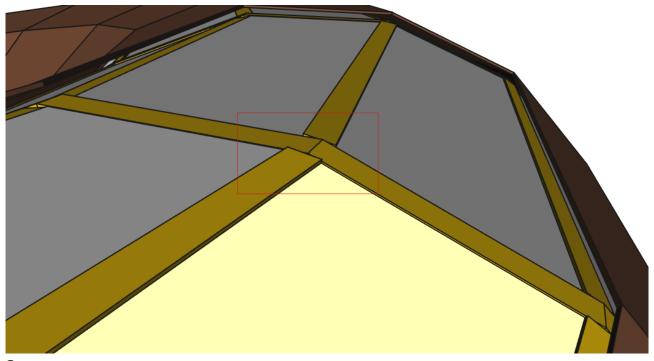
a1, b1 = fPOINTS[i]

- (∠B2 + ∠B3), x, a0, b0 = GraduatedArc.sequenceByGraduatedArc(zPOINTS)[i];
- a1, b1 or fPOINTS[i] = MonoGraduatedArc.monoSurfaceMidPoints(Or, manipulator)[i];
- f_pointing.FCStd;

Manipulator issue in thorus mode



Manipulates differences while proportional elongation:



Definitions in:

- FrameRoot.wireFrame;
- InsulantRoot.wireFrame;