FreeCAD World

[notes]
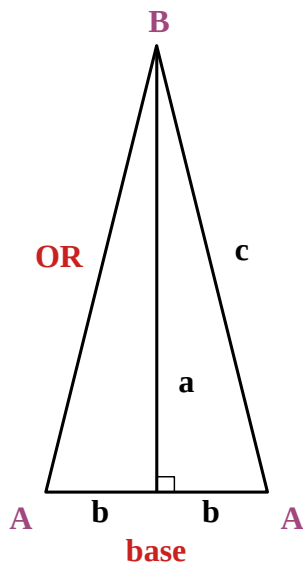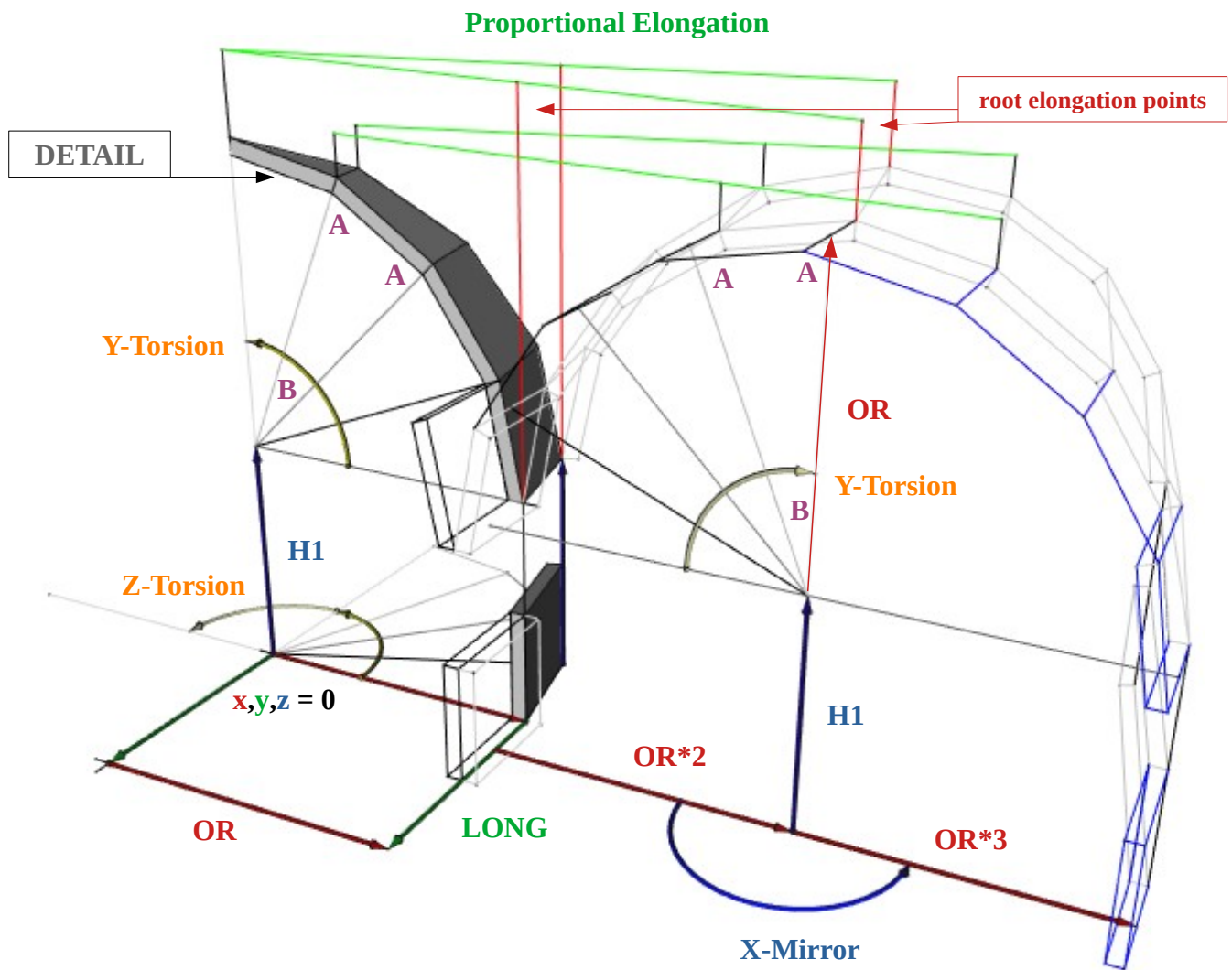
Config types

[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 **<u>comma</u> separated** tuple of integers or floats;

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

- **dict():**   **<u>comma</u> separated** dictionary of options: str(key) = value, where value may be **one** of described above types;

The Principle

Proportional Elongation

root elongation points

DETAIL

A

A

A   A

Y-Torsion

B

OR

Y-Torsion

B

H1

Z-Torsion

x,y,z = 0

H1

OR*2

OR   **LONG**

OR*3

X-Mirror

B

OR   c

a

A   b   b   A

base

B = 360°/**DETAILS**

A + **B**/2 = 90°

A = (180° - **B**)/2

Isosceles Triangle as base of construction

a = **OR** * sin(**A**) = cathetus

b = **OR** * cos(**A**) = side **b**

OR = **a** / cos(**B**/2) = **c** = hypotenuse

base = **b** * 2 = **OR** * 2 * cos(**A**)