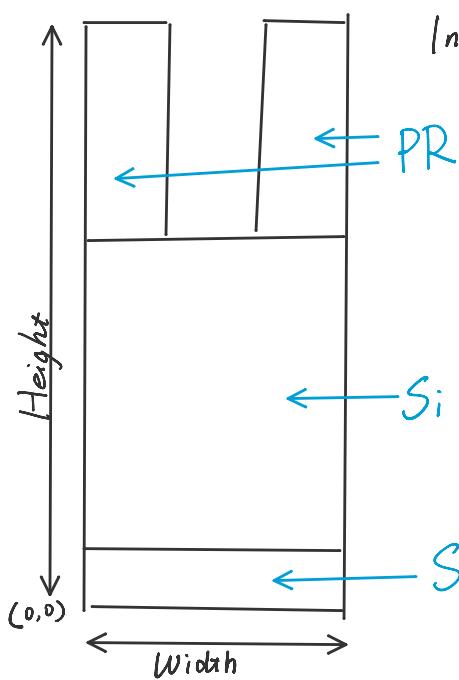


# Mesh construction

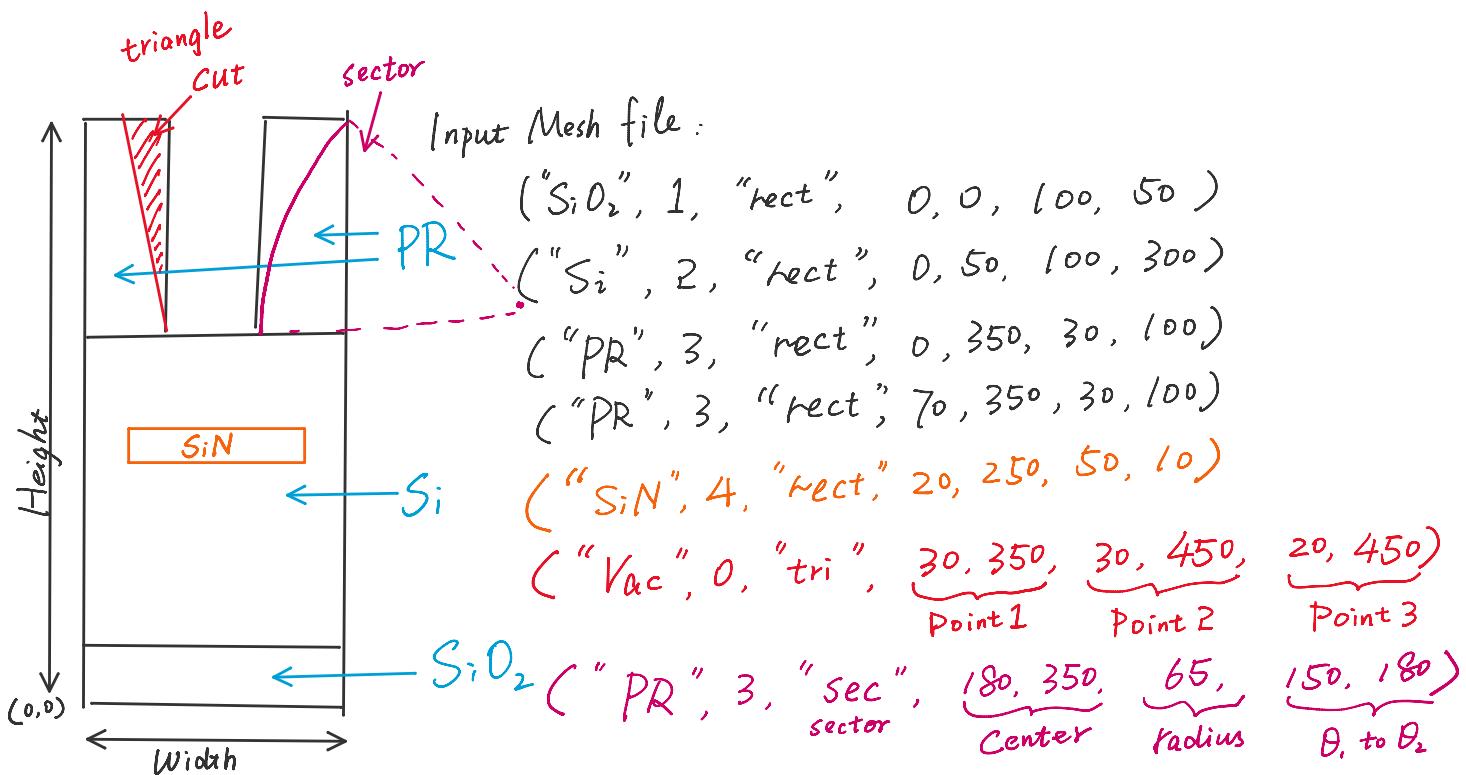
Sunday, September 13, 2020 9:44 AM



Input Mesh file :

```
( "SiO2", 1, "rect", 0, 0, 100, 50 )
( "Si", 2, "rect", 0, 50, 100, 300 )
( "PR", 3, "rect", 0, 350, 30, 100 )
( "PR", 3, "rect", 70, 350, 30, 100 )
```

- i) Utilize basic shapes to construct complex feature/geometry/mesh
- ii) latter block/shape overwrites former
- iii) "Vac" default as "0", used as "CUT"



Input Mesh file :

```
( "SiO2", 1, "rect", 0, 0, 100, 50 )
( "Si", 2, "rect", 0, 50, 100, 300 )
( "PR", 3, "rect", 0, 350, 30, 100 )
( "PR", 3, "rect", 70, 350, 30, 100 )
( "SiN", 4, "rect", 20, 250, 50, 10 )
( "Vac", 0, "tri", 30, 350, 30, 450, 20, 450 )
( "PR", 3, "sec", 180, 350, 65, 150, 180 )
```

Annotations for the sector feature:

- Point 1: 30, 350
- Point 2: 30, 450
- Point 3: 20, 450
- Center: 180, 350
- Radius: 65
- θ<sub>to</sub>θ<sub>2</sub>: 150, 180