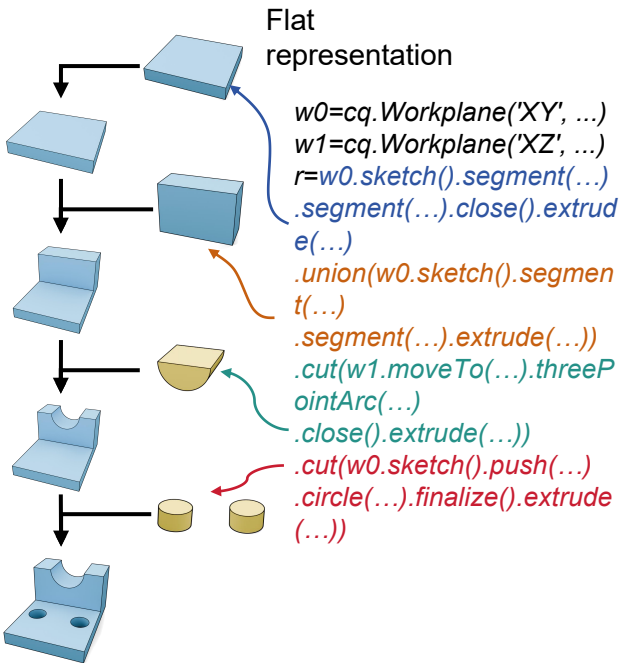
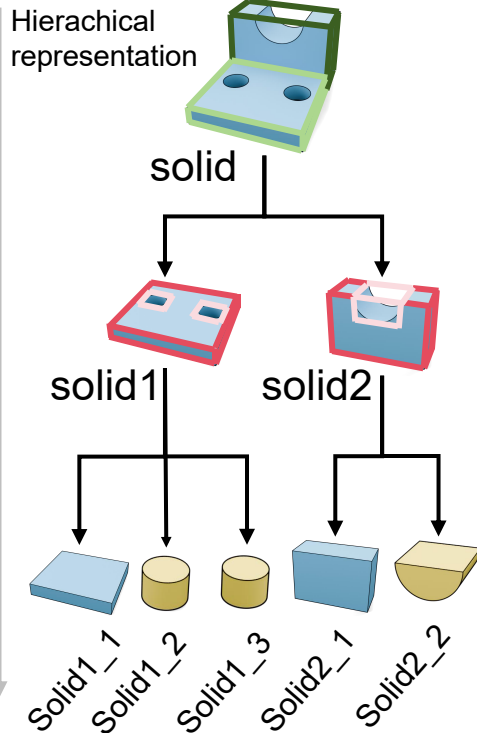




(a) CAD-Recode



(b) Ours

```

solid1 = Bnd_Box().Update(c_x1, c_y1,
c_z1, sz_x1, sz_y1, sz_z1)
solid2 = Bnd_Box().Update(c_x2, c_y2,
c_z2, sz_x2, sz_y2, sz_z2)
solid = solid1.union(solid2)
  
```

```

solid1_1 = Bnd_Box().Update(...)
solid1_2 = Bnd_Box().Update(...)
solid1_3 = Bnd_Box().Update(...)
solid1=solid1_1.cut(solid1_2).cut(solid1_3)
  
```

```

solid2_1 = Bnd_Box().Update(...)
solid2_2 = Bnd_Box().Update(...)
solid2 = solid2_1.cut(solid2_2)
  
```

```

wp1_1 = cq.Workplane('XY', origin=(...))
loop1_1 = wp1_1.moveTo(...).close()
solid1_1 = wp1_1.add(loop1_1).extrude(...)
  
```

```
wp1_2... loop1_2... solid1_2...
```

```
wp1_3... loop1_3... solid1_3...
```

```

wp2_1 = cq.Workplane('XY', origin=(...))
loop2_1 = wp2_1.moveTo(...).close()
solid2_1=wp2_1.add(loop2_1).extrude(...)
  
```

```
wp2_2... loop2_2... solid2_2...
```