Inheritence ...

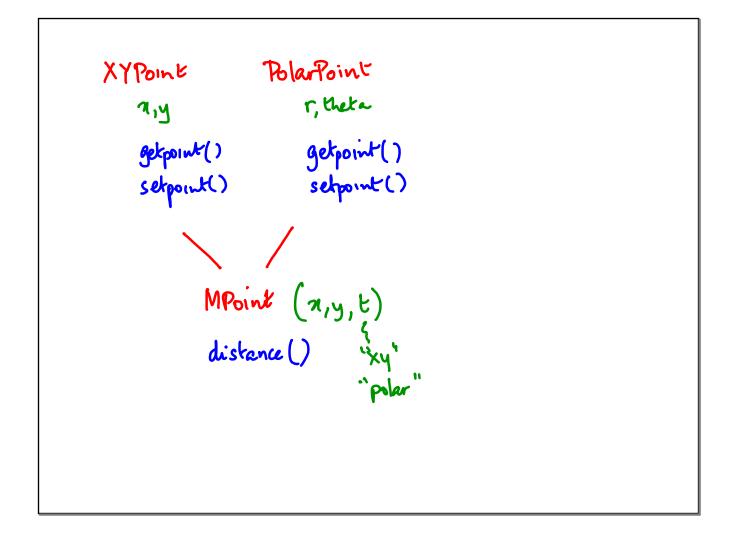
Old type class vs New type class

Point Super (MPoint, self)

Self. super()

Which

parent?



```
Multiple Inhertance

Class MPoint (XYPoint, PolarPoint):

def --init -- (self, a=0, b=0, t="xy"):

if t!="xy":

t="polar"

self.ptype=t

if self.ptype=="xy":

super (MPoint, self)...init...(a,b)

else

super (XYPoint, self)...init...(a,b)
```

getpoint()

XYPoint

PolarPoint Even if an MPant is set up using \_\_init\_x getpoint() of PolarPoint, Need to check ptype it remains of type MPoint & call the convect getpoint() "Magic" functions

--init-- automatically called when object is weated

--str\_- implicitly called when str(0) is used

"(3,4)"

--repr\_- also returns a string "MRoint (3,4)"

--add-- p+q ~> calls p.-add--(q)