























## **Perspective Projection**

$$x = f \frac{X}{Z}, y = f \frac{Y}{Z}$$

- Pin-hole camera model is called *perspective* projection
- It is also possible to make approximations to perspective projection
  - Affine : Scene points are planar
  - Weak-perspective : Scene is approximated by a plane and assumed to be far away from camera
  - Orthographic : Scene is approximated to be planar and far away from camera and camera distance does not change

































