## Week 7: 3D Geometry I Part 3: A simple camera

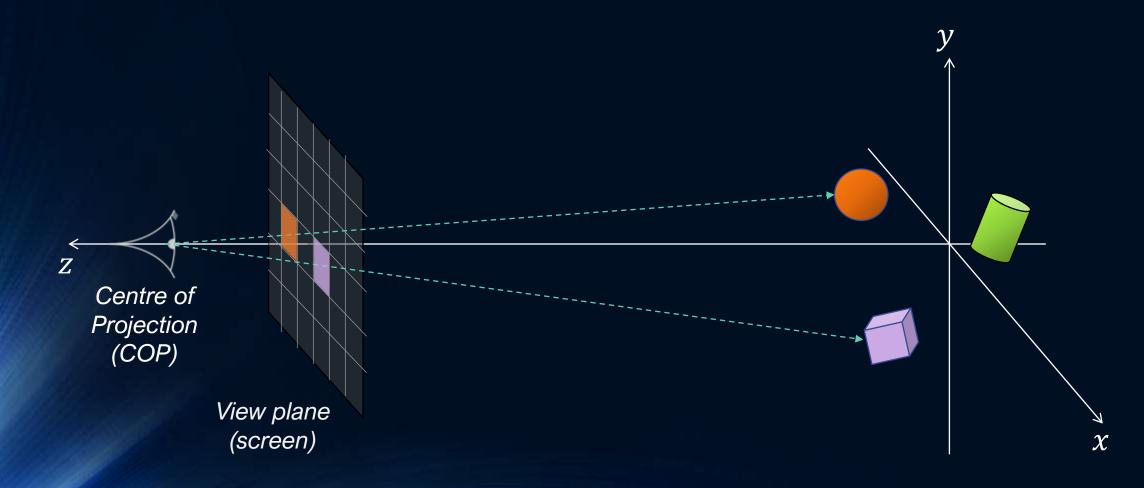
COMP270: Mathematics for 3D Worlds and Simulations

## Objectives

Apply vectors and intersection tests in transferring a 3D scene to a 2D screen

Direction of ray through cell *i* given by  $\mathbf{p}_i - \mathbf{COP}$ Vectors as raýs/ Centre of Projection (COP) View plane Divided into cells ('pixels') (screen) with size view plane dimension image resolution

## Colour by numbers



## Zoom

