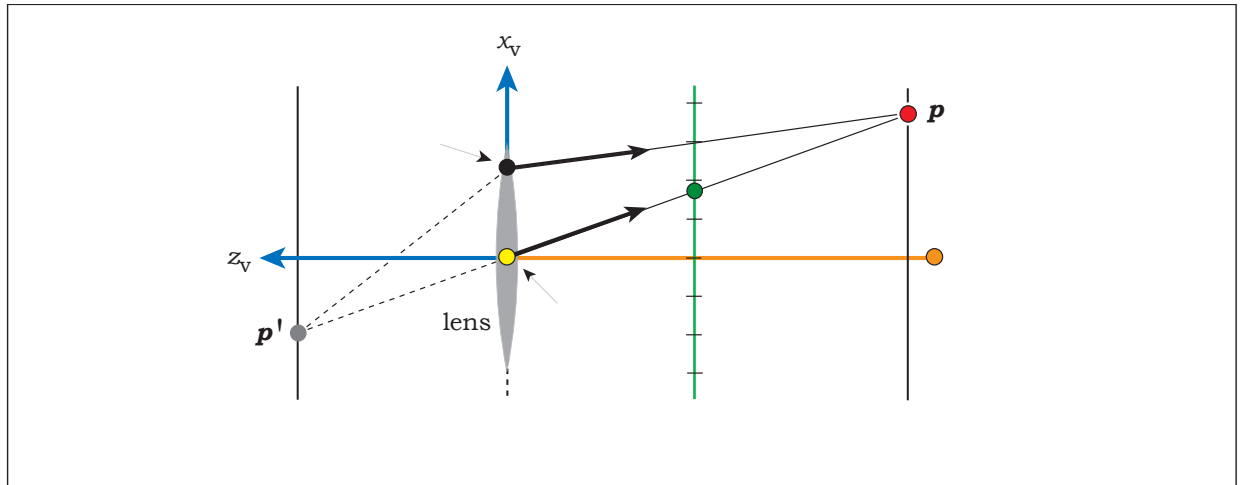


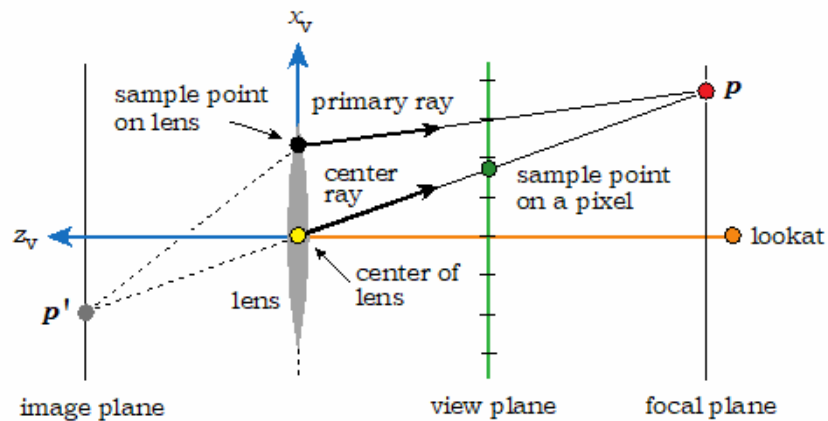
Depth of Field



1. Names of Things

Label the elements of the picture with the following:

- a. Image plane
- b. View plane
- c. Center ray
- d. Primary ray
- e. Pixel
- f. Focal plane
- g. Lookat point

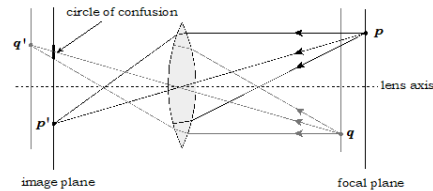


2. Sampling for Depth of Field

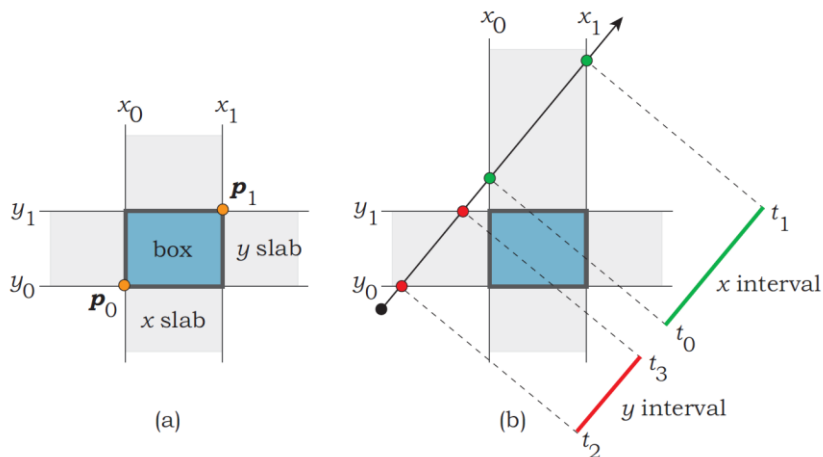
With a partner, do the following:

- Come up with an explanation for why it makes sense that primary rays for a pixel need not pass through the pixel when simulating depth of field.
- Draw a picture supporting your explanation.

We are simulating the effect of a lens, which means the light will no longer travel in a straight line



3. Bounding Box Intersection



Describe an efficient test for ray-box intersection in 2D that uses the values t_i as shown in the diagram above.

Check if largest entering t value is less than smallest exiting t value

