

# Three.js

Алексей Литвинов

#### Scene

- **>** Cameras
- > Lights
- > Objects

## Object3D

#### Properties

- ) name
- > position
- > rotation
- > scale

### Object3D

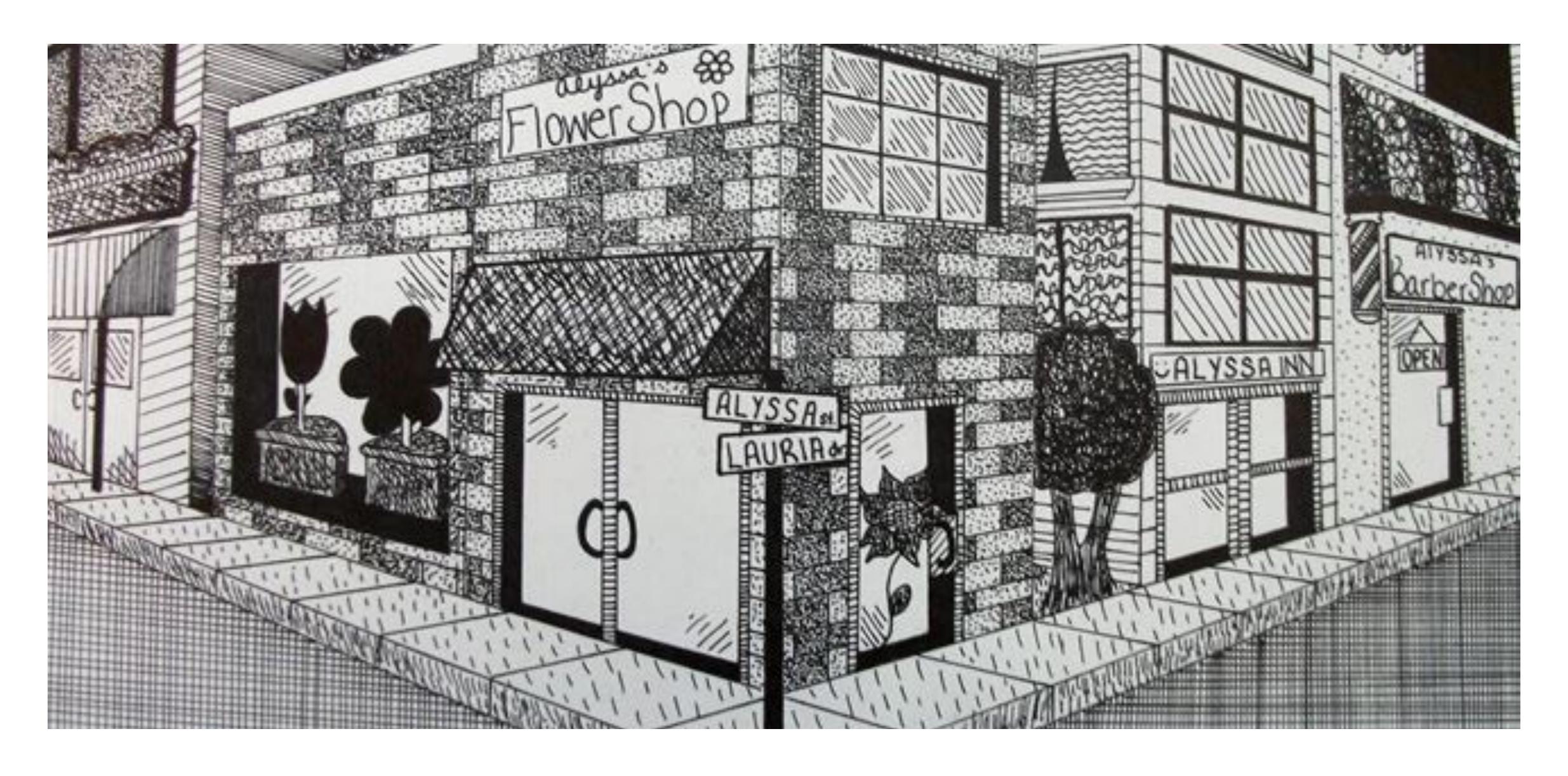
#### Methods

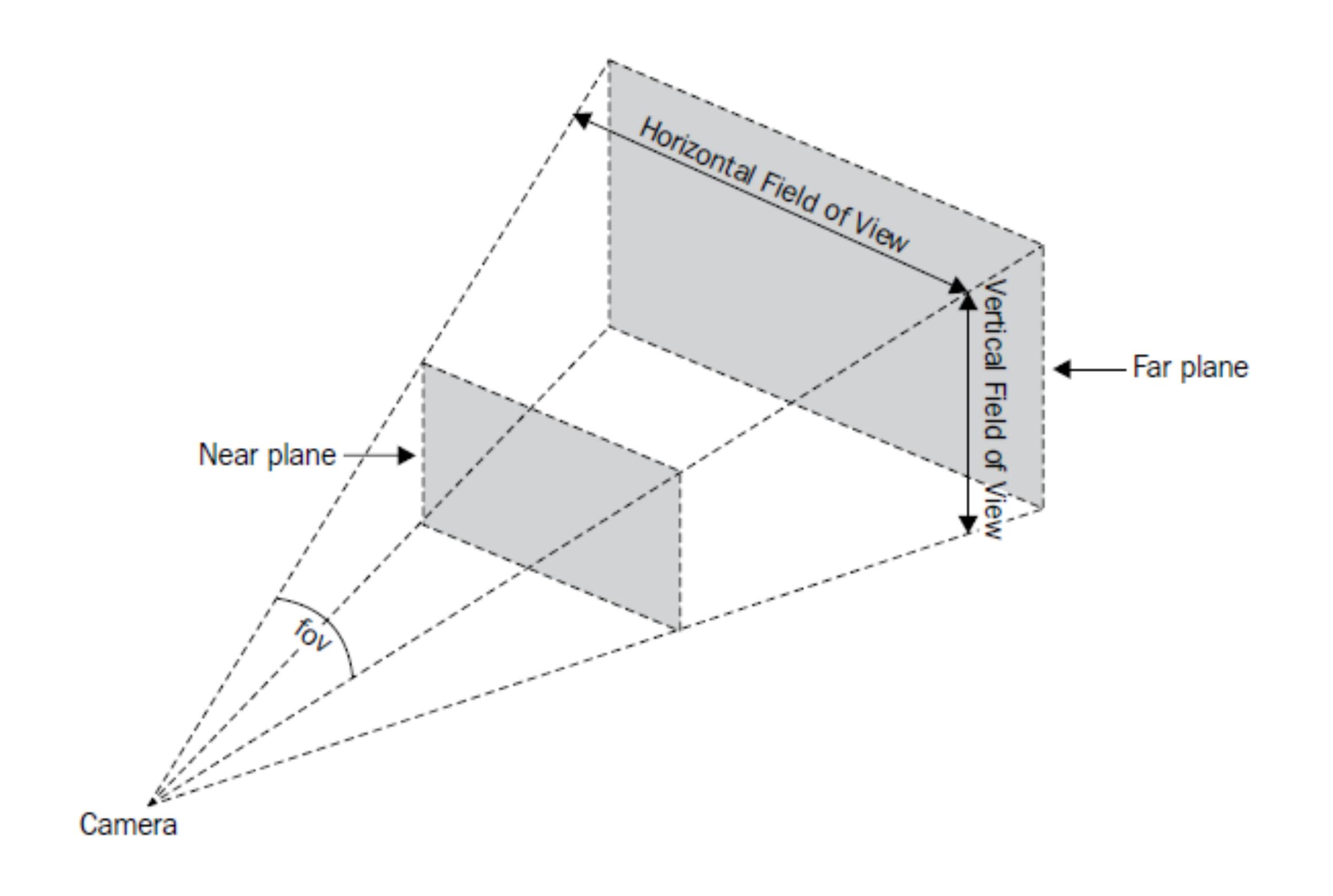
- > add(obj)
- > getObjectByName(name)
- traverse(fn)
- > rotateX(rad)
- > translateX(amount)

# Cameras Types

- > Perspective camera
- > Orthographic camera

# Perspective View





#### Perspective Camera

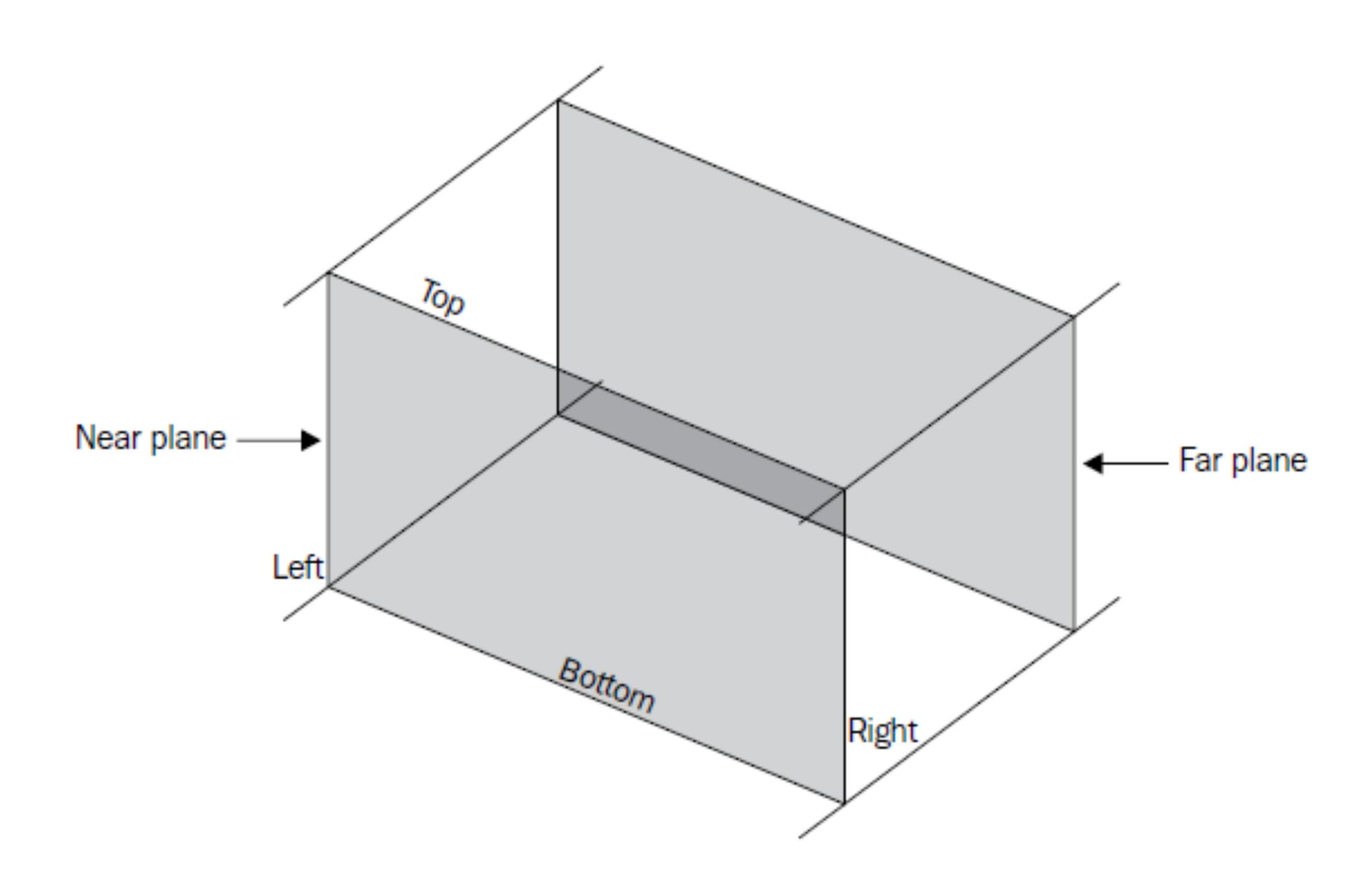
- > for Field of view. 60...90 degrees is normally chosen
- > aspect Aspect ratio. aspect = width / height
- > near Defines from how close to the camera the Three.js library should render the scene
- > far The far property defines how far the camera can see from the position of the camera.

new THREE.PerspectiveCamera(fov, aspect, near, far)

# Orthographic View



Transport Tycoon



- > left
- right
- > top
- > bottom
- > near
- **>** far

new OrthographicCamera(left, right, top, bottom, near, far)

### Light Types

- > AmbientLight Illuminates all objects in the scene equally
- > DirectionalLight Emits in a specific direction
- > HemisphereLight A light source positioned directly above the scene
- > PointLight Emits from a single point in all directions
- > RectAreaLight Emits uniformly across the face a rectangular plane
- SpotLight Emits from a single point in one direction, along a cone

