







Z-buffer

- We will use z-buffer (or depth buffer)
- Triangles are drawn in any order
- Each pixel in frame buffer stores 'depth' value of closest geometry observed so far.
- When a new triangle tries to set the color of a pixel, we first compare its depth to the value stored in the z-buffer.
- Only if the observed point in this triangle is closer, we overwrite the color and depth values of this pixel.



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Other uses of visibility calculations

- Visibility to a light source is useful for shadows.
 - We will talk about shadow mapping later.
- Visibility computation can also be used to speed up the rendering process.
 - If we know that some object is occluded from the camera, then we don't have to render the object in the first place.
 - We can use a conservative test.





















