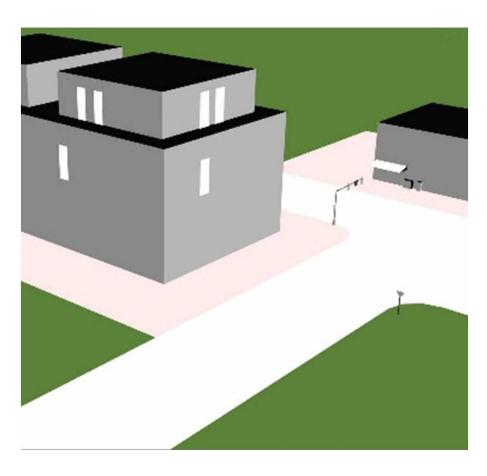
Texturing

Texturing = Map Image to Surface

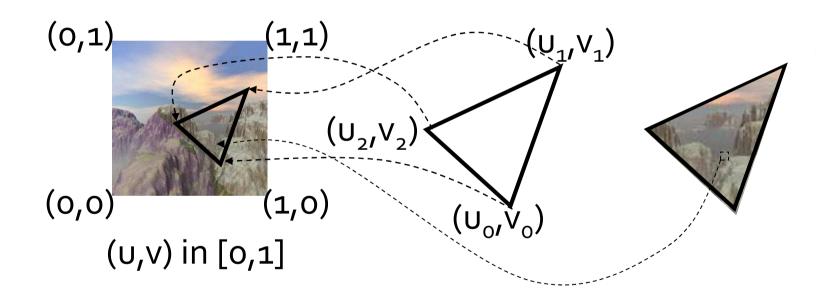




Adding Surface Detail

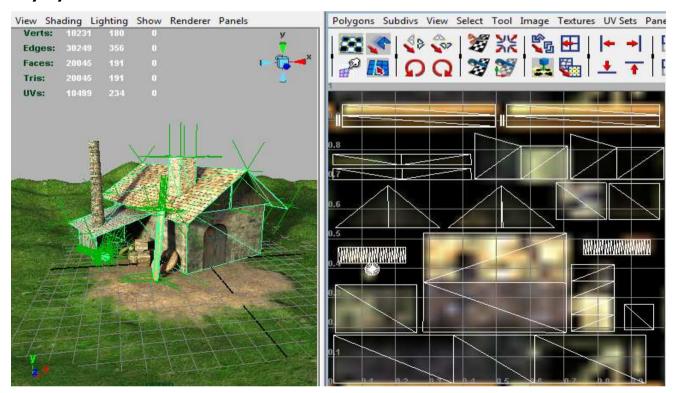


Mapping – Texture coordinates



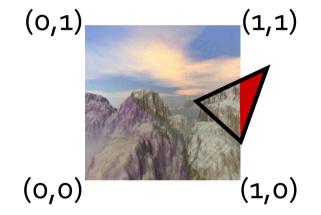
Texture coordinates

- Where do texture coordinates come from?
 - Offline: manual UV coordinates by DCC program
 - Note: a modeling Problem!
- Specify yourself



Texture functions

- How to extend texture beyond border?
- Border and repeat/clamp modes





repeat



mirrored



clamp

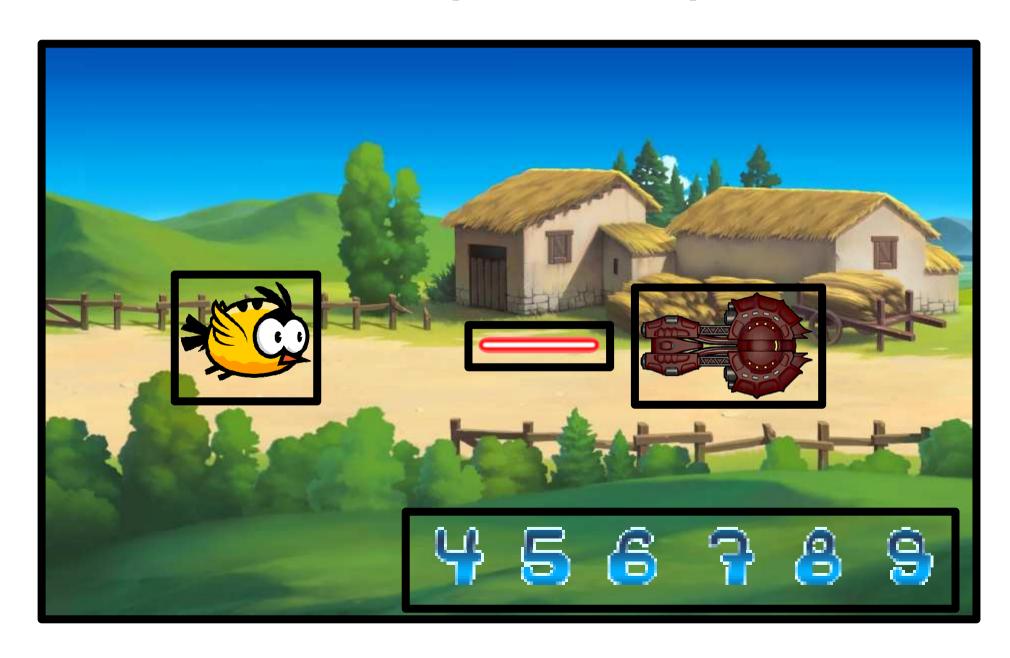


border

2D Game Scene

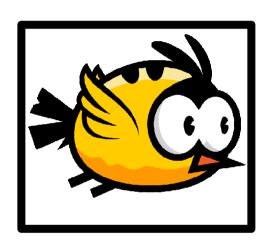


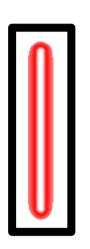
Scene composed of Sprites



Sprite – Image of object



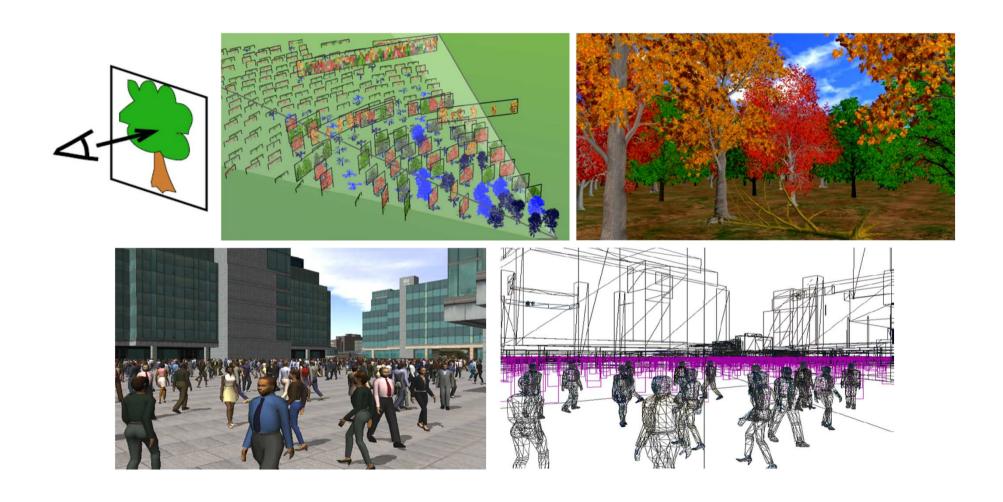






456789

Sprite = Impostor 3D



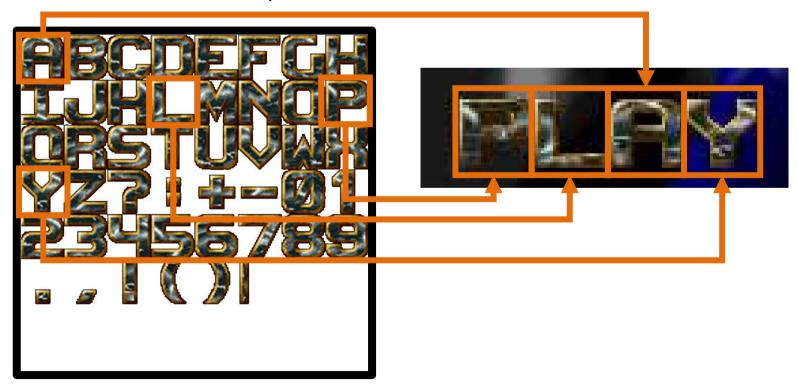
Bitmap Texture Font

Want to show changing text



Bitmap Texture Font

- Idea
 - Characters are from a predefined set
 - Each character has a certain set of texture coordinates
 - Render textured quads one for each character



Texture Animations

- Each animation frame is stored inside a texture
- Then different frames are accessed over time



