Carl Bateman
Software Engineer
C#, C++,VB, MySQL, .NET, Linq, blah, blah, blah, blah, blah, blah
Desktop developer – no web
OpenGL
not shaders
JavaScript, PHP, CSS, HTML

Next workshop: Textures and models (probably)
Thursday, February 20th 2014



Files and slides at

http://webglworkshop.com/workshops/03/



After Workshop Drinkies @ The Slaughtered Lamb



Light and Shadows Light Types

None

Ambient

Directional

Point

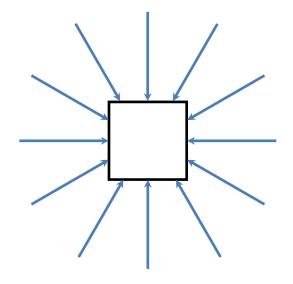
Spot

Area

Volumetric

Ambient

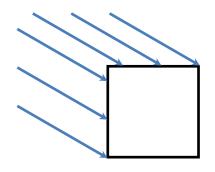
- Scattered
- Environmental
- Lights all parts of all objects equally / evenly





Directional

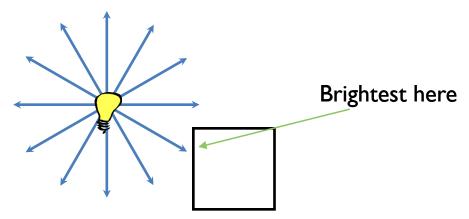
- Single direction
- No position
- e.g. the Sun
- Brightness depends on angle





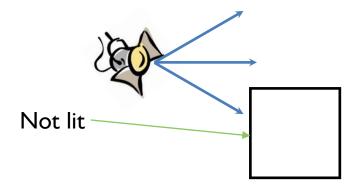
· Point

- Multi-directional
- Position
- e.g. bulb (not really)
- Brightness depends on angle
- Brightness depends on distance



Light and Shadows Spotlight

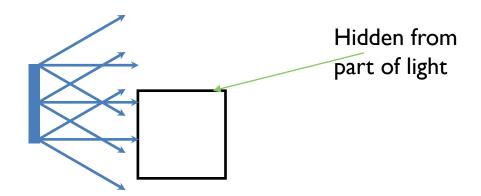
- Like a point light BUT
- Restricted
- Fall off





· Area

- Like many point lights
- e.g. panel lighting



Light and Shadows Volumetric

Materials

Determine how light reflects

Diffuse

Specular

Emissive

Materials

Determine how light reflects

Diffuse

Specular

Emissive

References:

WebGL Programming Guide

Mozilla Developer Centre

https://developer.mozilla.org/en-US/docs/Web/WebGL

Learning WebGL blog

http://learningwebgl.com/blog/