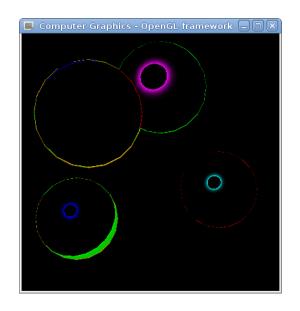
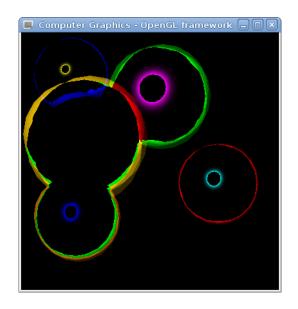
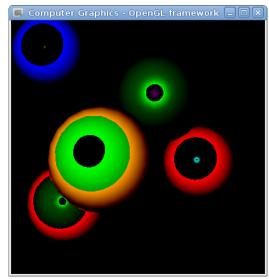
Computer Graphics

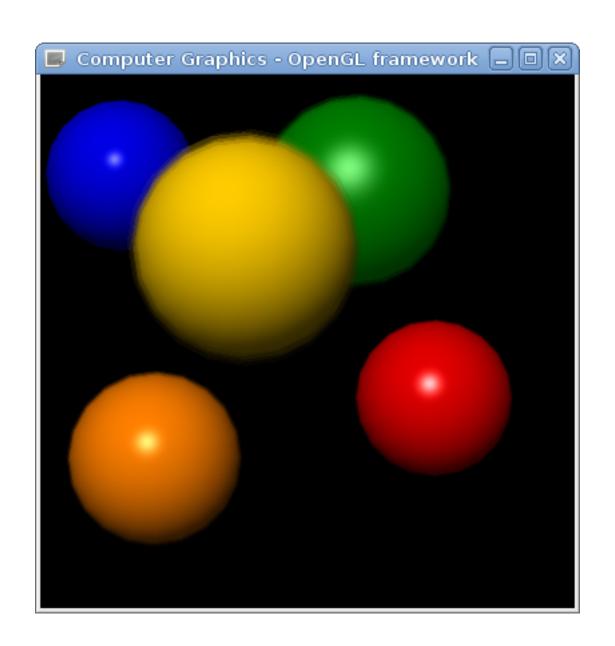
week 3
Roan Kattouw (1770993)
Jan Paul Posma (1775707)

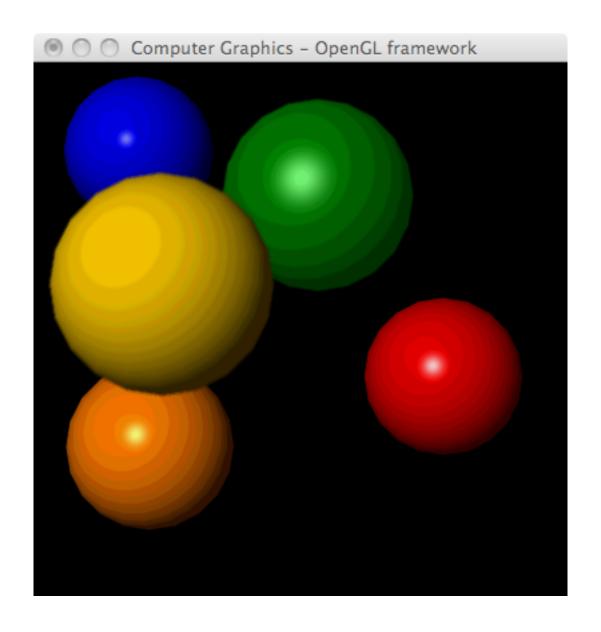




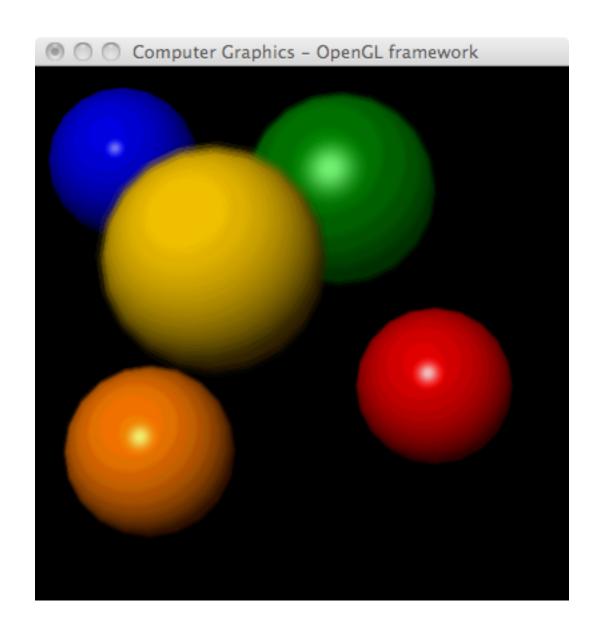


glAccum(GL_ACCUM, 1.0/(float)i); glAccum(GL_ACCUM, 1.0/(float)apertureSamples);





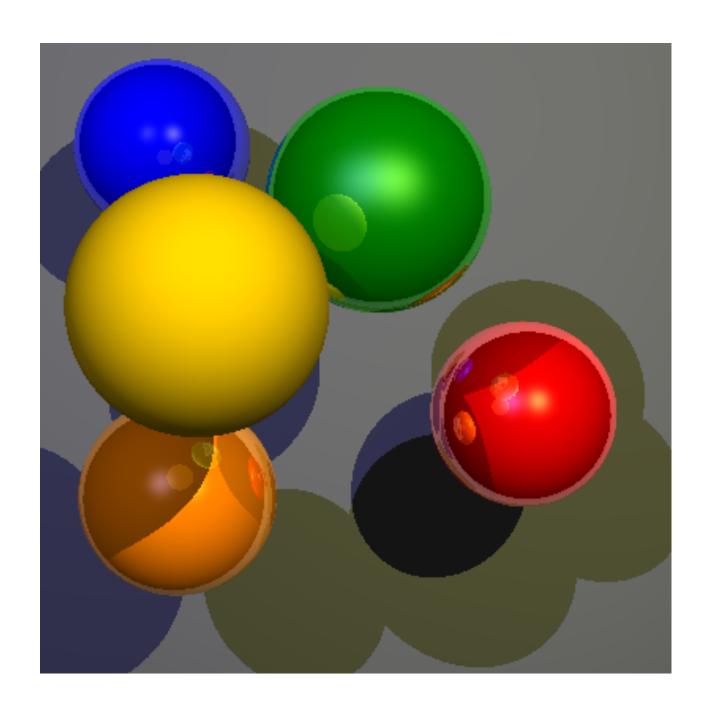
Weird rings with some settings...



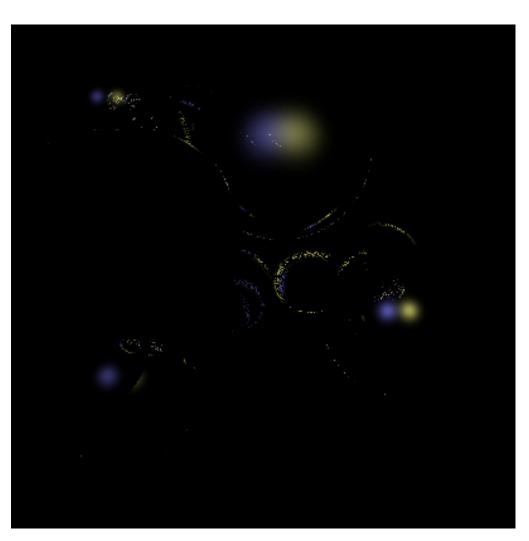
Better perspective matrix using glFrustum

See
http://www.opengl.org/
resources/faq/technical
/transformations.htm

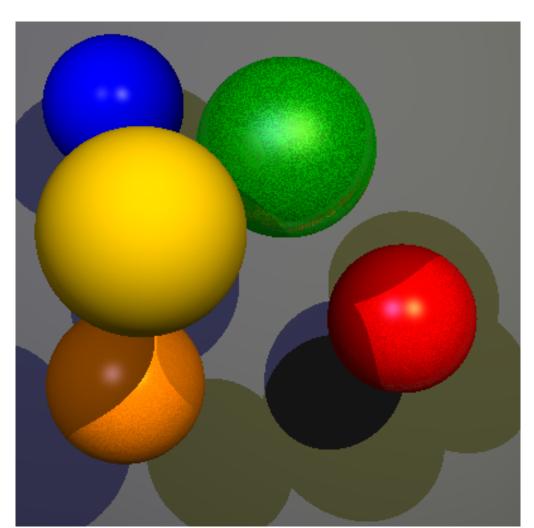
Reflection



Trivial coding mistakes

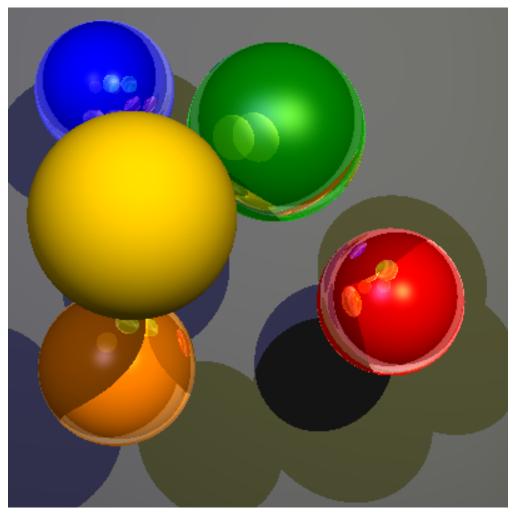


if (maxRecursionDepth == 0) {
if (recursionDepth == 0) {

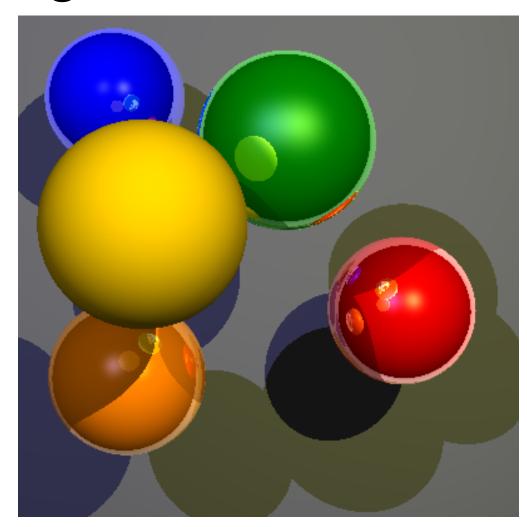


Ray reflected(*hit, R); Ray reflected(*hit + 0.01*R, R);

Not-so-trivial coding mistakes

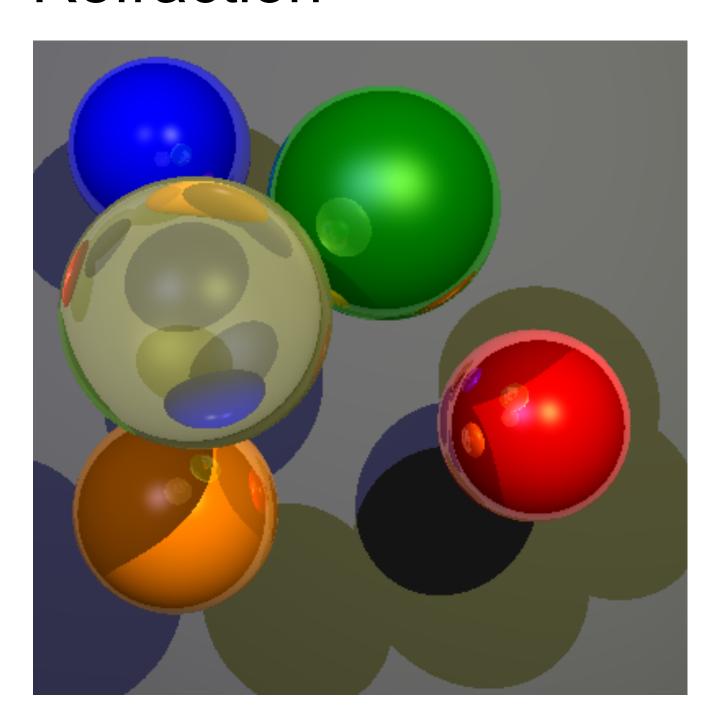


Reflected along light vector (L) instead of view vector (V)

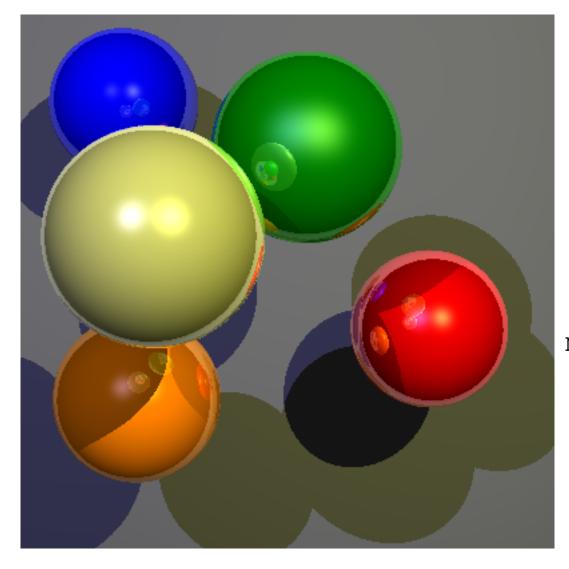


Computed and added reflections for each light source

Refraction

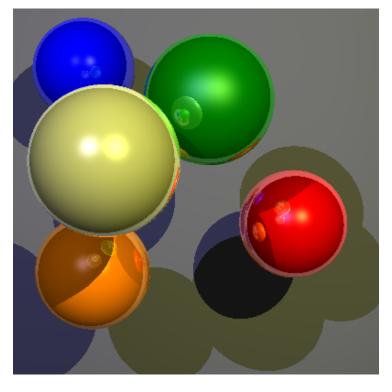


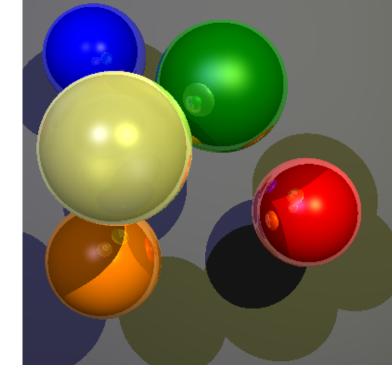
Scene modifications

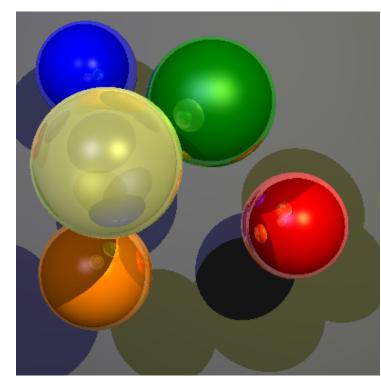


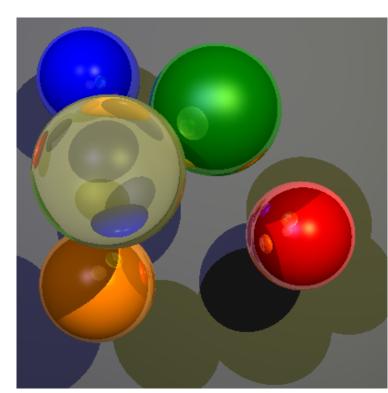
Tweaks to the yellow sphere: change color to that of the yellowish light, add shininess (ks and n). These tweaks make for nicer refractions.

```
material: # yellowish
  color: [0.8, 0.8, 0.4]
  ka: 0.2
  kd: 0.8
  ks: 0.8
  n: 32
  refract: 0.75
  eta: 1.33
```









75%

25%

0%

50%

Updated bonus scene:)

