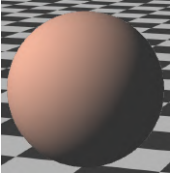
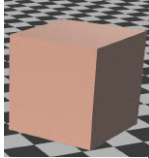
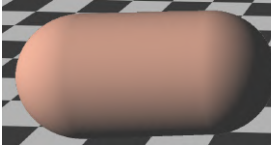
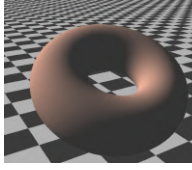
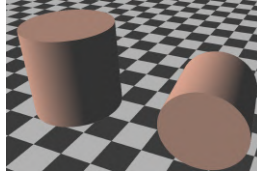
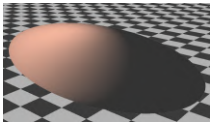
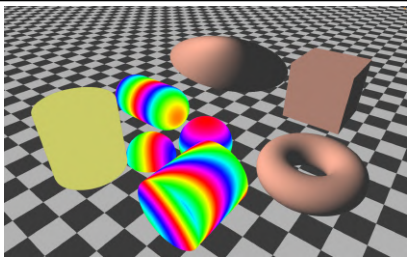
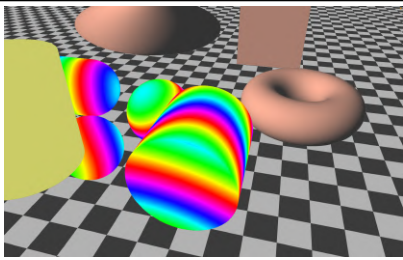
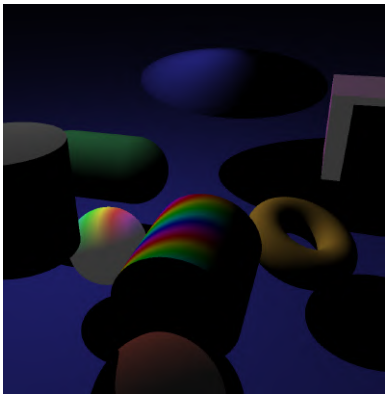
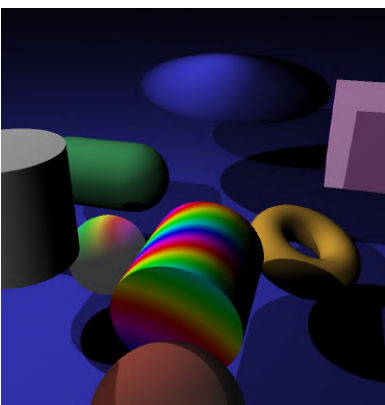


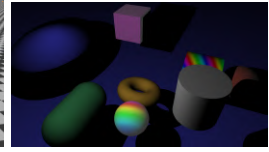
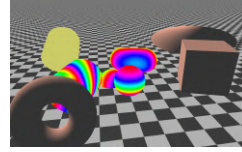
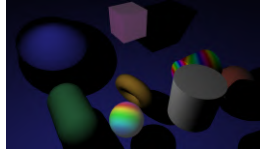
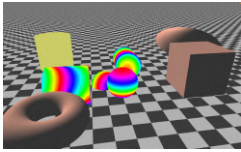
Primitives

Sphere 	Boite 	Capsule 	Tore 	Cylindre 
Ellipsoïde 				

Etat initial	Après la translation (1.5,1.0,2.0)
	

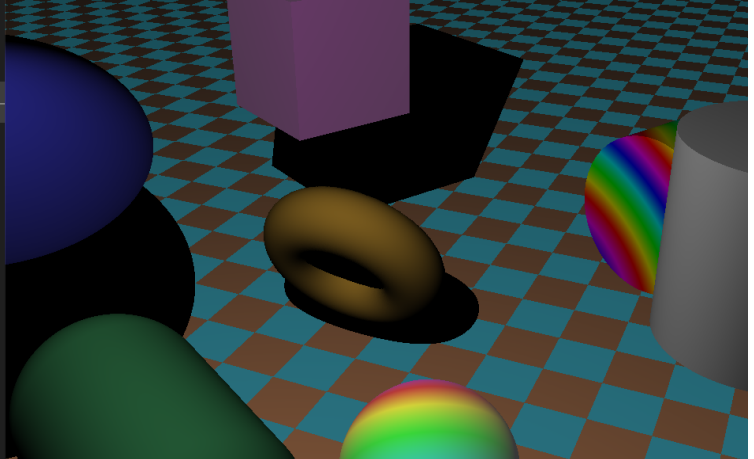
Ombres avec une source unique de lumière	Ombres avec Plusieurs sources de lumière (2)
	

Rotation continue des formes en temps réel

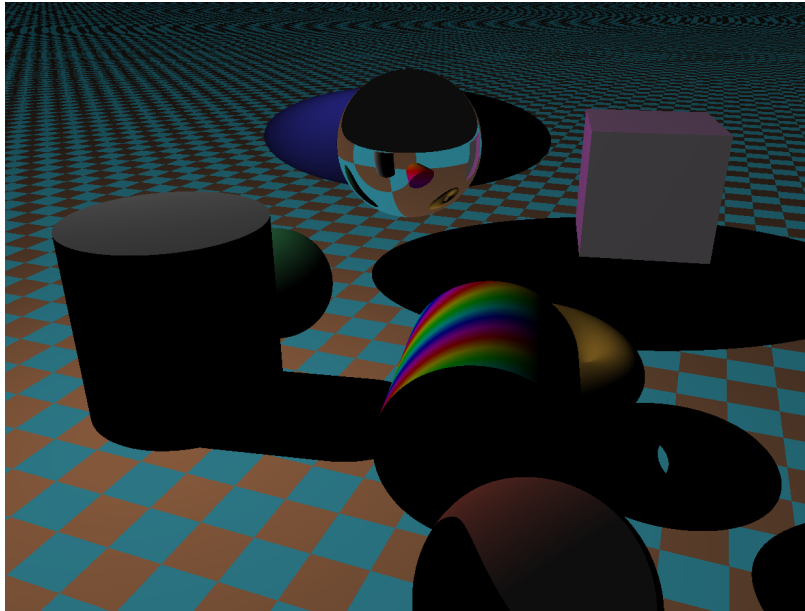


Texture damier alternant des cases diffuses et spéculaires

```
Material CheckerboardTexture(vec3 point) {  
    // Définir la taille d'une case du damier  
    float checkerSize = 1.0;  
  
    // Ajouter une petite valeur d'épsilon aux coordonnées du point  
    float epsilon = 0.1; // Ajustez cette valeur si nécessaire  
    point += epsilon;  
  
    // Calculer les indices de cases en x, y et z en utilisant des valeurs en virgule  
    float xIndex = floor(point.x / checkerSize);  
    float yIndex = floor(point.y / checkerSize);  
    float zIndex = floor(point.z / checkerSize);  
  
    vec3 diff, spec, amb;  
    amb = vec3(0.);  
  
    // Alternance des cases diffuses et spéculaires en fonction des indices  
    if ((int(xIndex) + int(yIndex) + int(zIndex))%2 == 0) {  
        // Case diffuse  
        diff = vec3(0.8, 0.5, 0.3);  
        spec = vec3(0.1, 0.1, 0.1);  
    } else {  
        // Case spéculaire  
        diff = vec3(0.1, 0.1, 0.1);  
        spec = vec3(0.2, 0.7, 0.8);  
    }  
  
    return Material(diff, spec, amb);  
}
```



Réflexion depth = 1 pour la sphère au centre



Le Shade tourne de 60 à 165fps.

Il existe 7 formes différentes.

Il y a une dizaine de textures différentes dont la coloration radiale, concentrique et un damier.