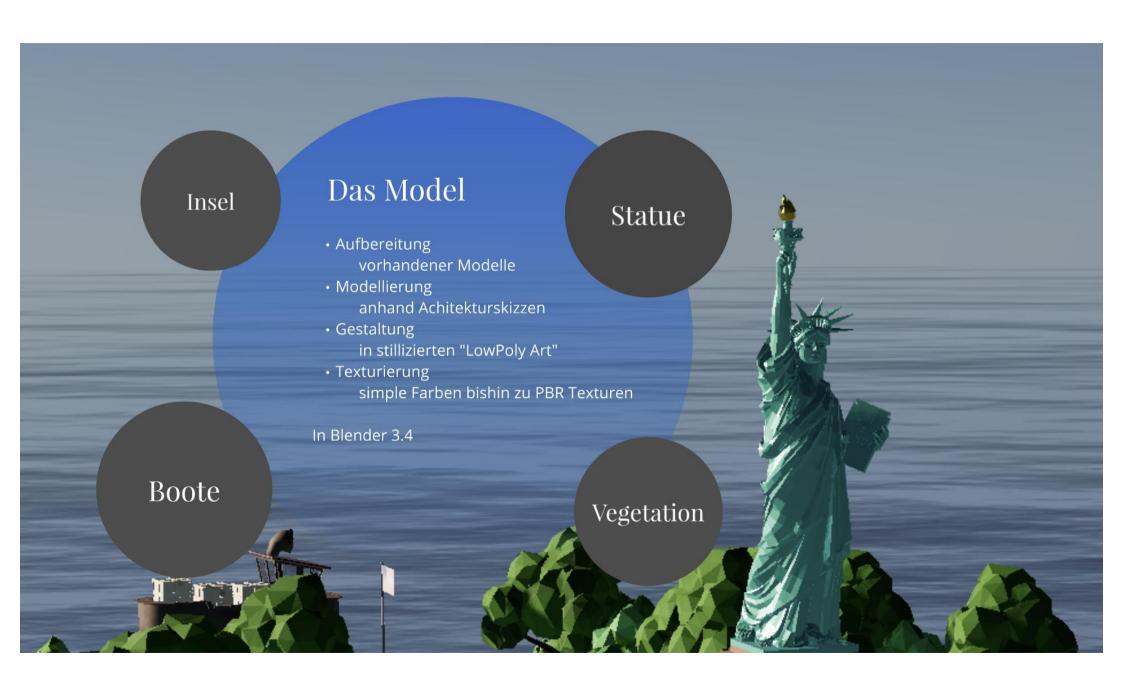
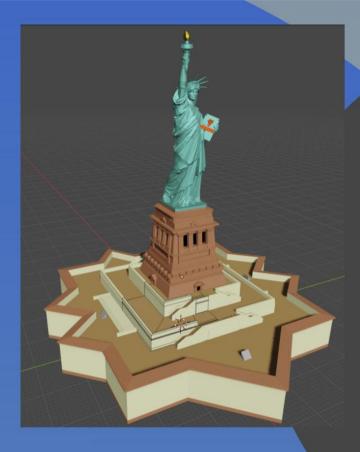
Liberty Island

Computergrafiken

Christoph Gründer Yannic Grafwallner Gabriel Wuwer





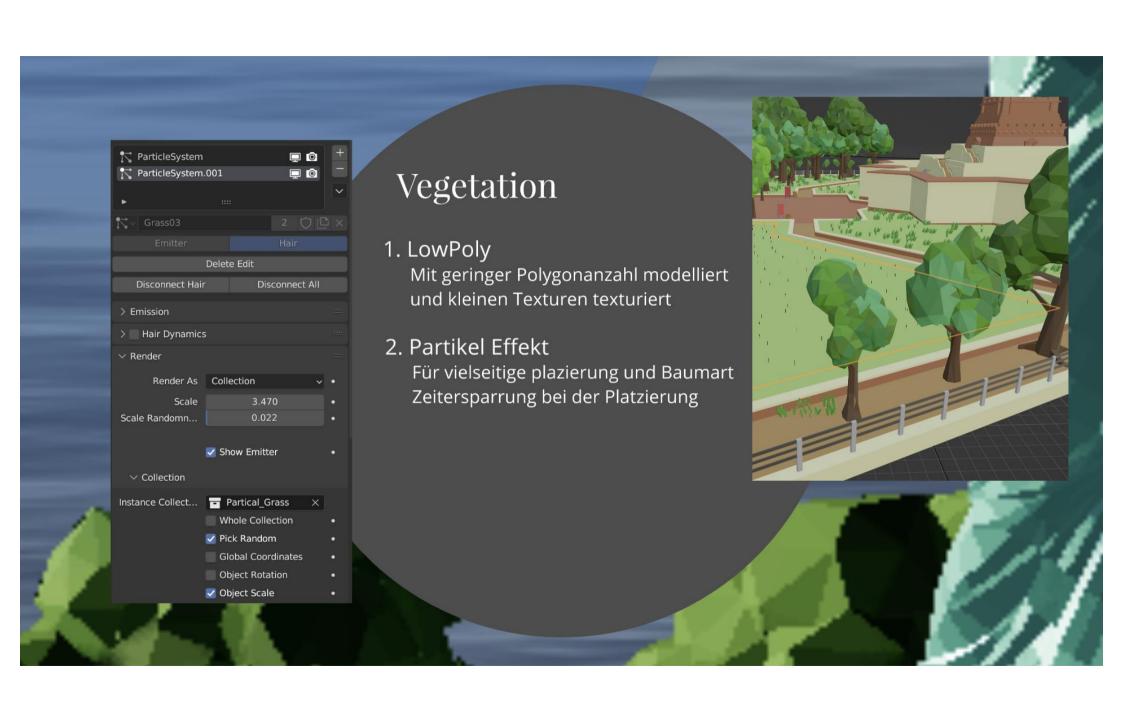


Statue

1. Nachberbeitet
Gesicht, Robe, Fackel,
Form, Normals, Gruppierung,

- 2. Modellieren Sockel, Podest, Tabula, Mirror Modifier,
- 3. Materialien
 Metallisch: Korrodiertes Kupfer, Gold
 Matt: Sandstein, Beton, Steinplatten





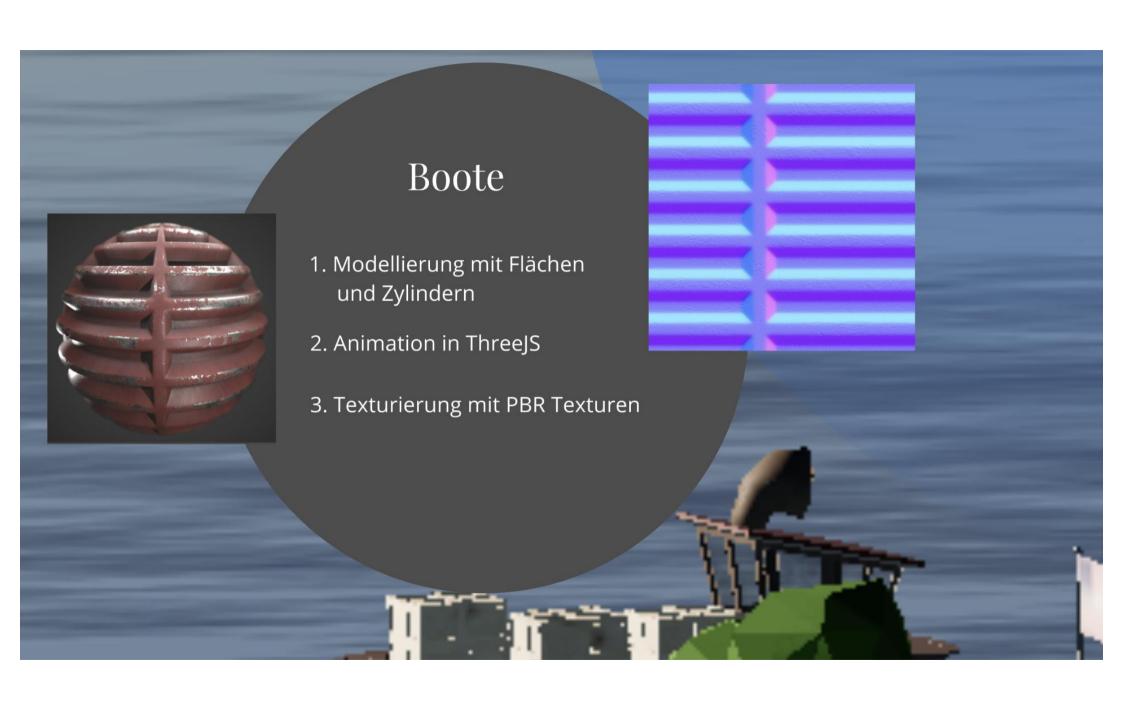


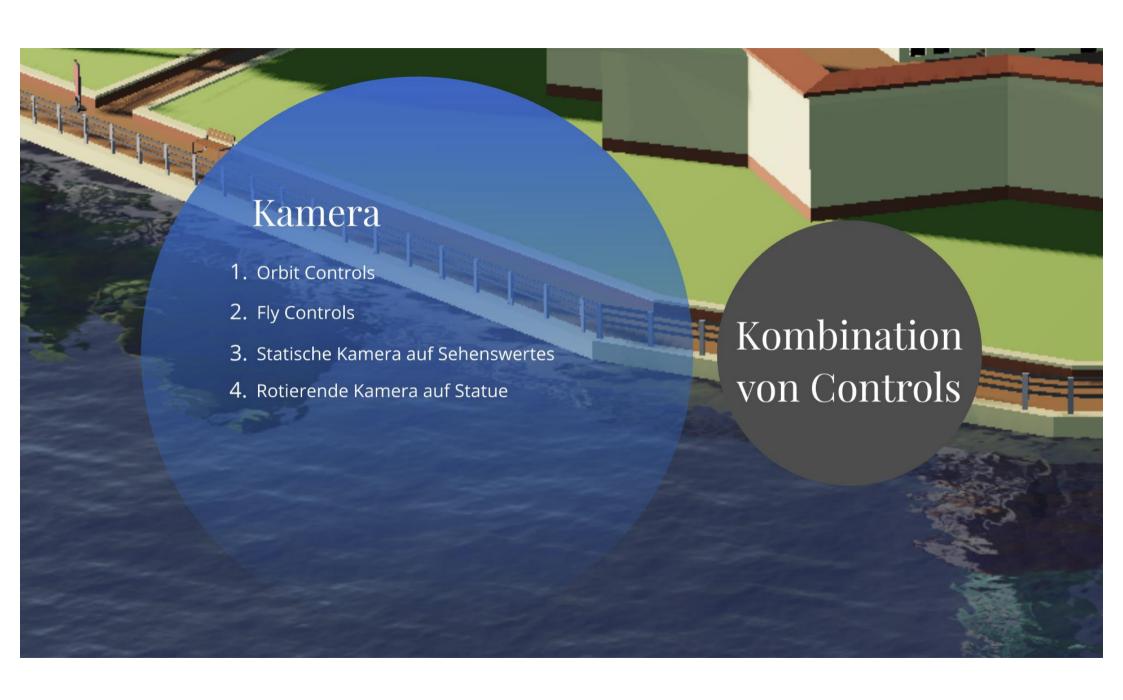
Insel

Starke orientierung an realer Insel mit gestalterischer Freiheit

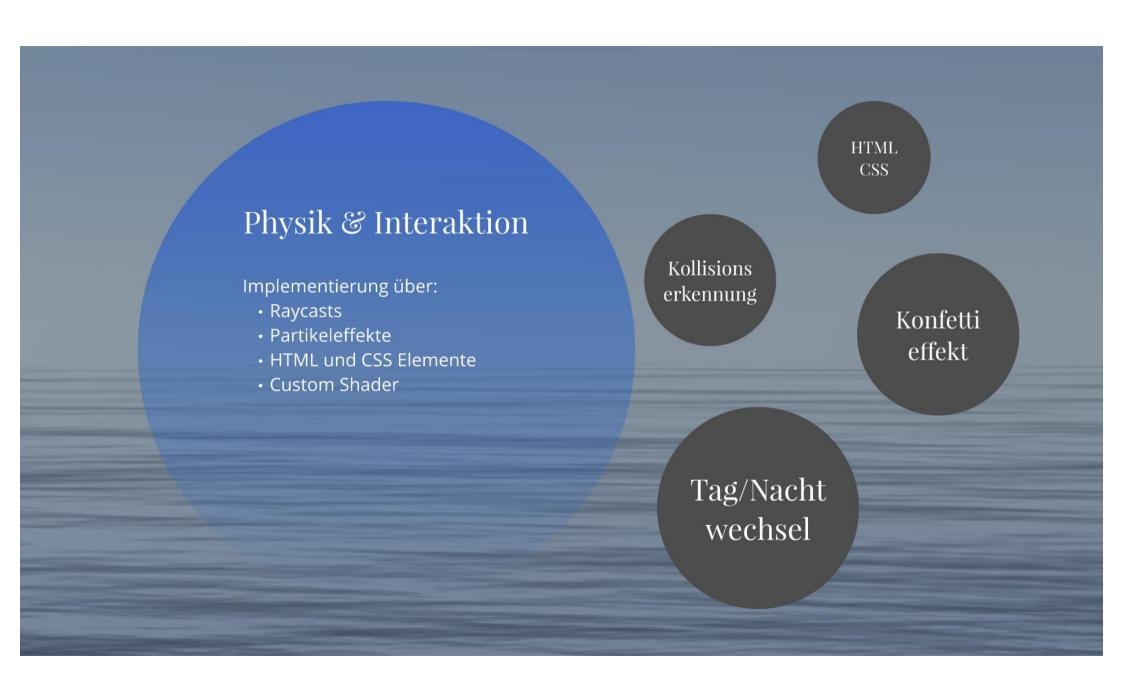
"One Object" Modell

Details seperat modelliert









Kollisionserkennung

Entfernung von Objekten vor Kammera mithilfe von Raycasts gemessen

Bei Unterschreitung, nur noch zurück fliegen

```
function collisionDetected(freeCollisionKey) {
    controls.enabled = false;
    controls.dispose();
    console.log("Press " + freeCollisionKey + " to free the camera");
    document.getElementById("status").textContent="Tap S";

// Wait for keypress s before enabling controls again
    document.addEventListener("keydown", function freeCollision(event) {
        if (event.key === freeCollisionKey) {
            timeAfterCollision = Date.now();
            controls = initControls(camera, renderer, controls);
            controls.enabled = true;
            document.removeEventListener("keydown", freeCollision);
            document.getElementById("status").textContent="Flight";
        }
    });
}
```



1 2 3 4 5 6





- Umgesetzt über BufferGeometry
- gewichtete Random Bewegung
- Zufällige Farben und Startpositionen

```
document.addEventListener( type: 'keydown', | listener: function(event : KeyboardEvent ) {
    if (event.code === 'Space') {
        raycaster.setFromCamera( pointer, camera );
        intersects = raycaster.intersectObjects( scene.children );
        let position = new THREE.Vector3(intersects[0].point.x, intersects[0].point.y, intersects[0].point.z);
        confettiParticles.push(createConfetti(position,confetti));
        if (confettiParticles.length > 30){
            confetti.remove(confetti.children[0]);
            confettiParticles.shift();
        }
    }
}
```



