

Client Preview

February 13, 2017 Arseny "zeuxcg" Kapoulkine





Windows
UWP
macOS
iOS
Android
Xbox One

Graphics
Physics
Networking
Scripting
Sound
Input

Game



Releasing
Developing
Soon™
Feedback



Graphics

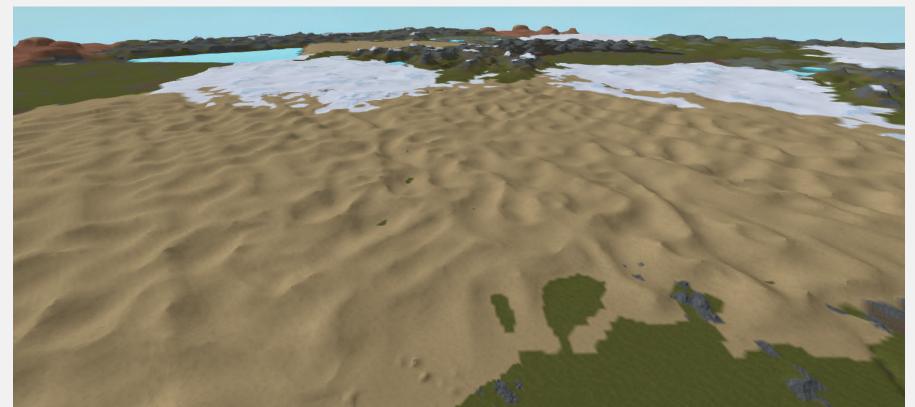




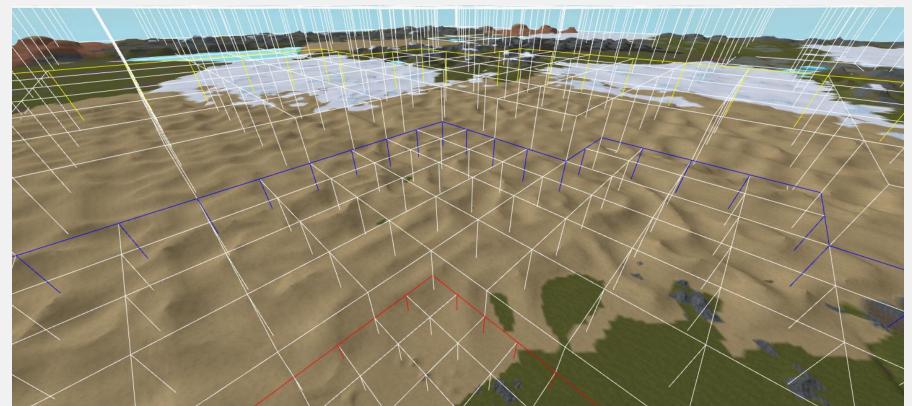


Level of detail Memory optimizations















Vegetation Voxel colors





ColorCorrection

Bloom

Blur

SunRays

Anti-aliasing

Soft particles

















Depth of field Lens flares Cel shading

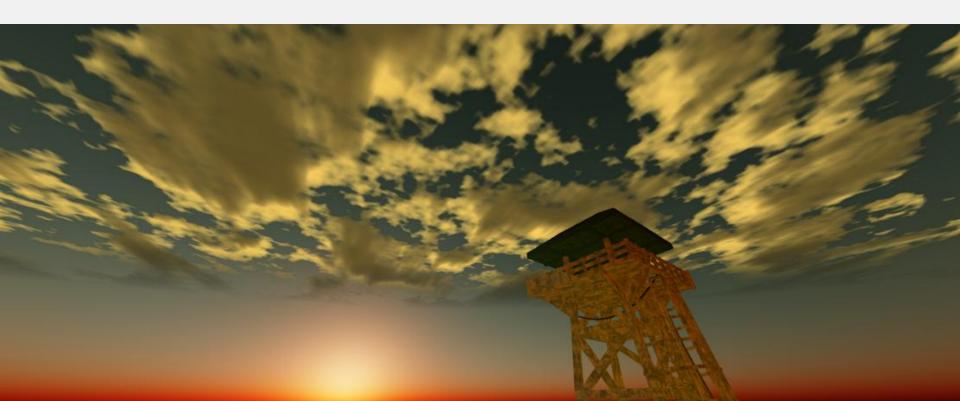




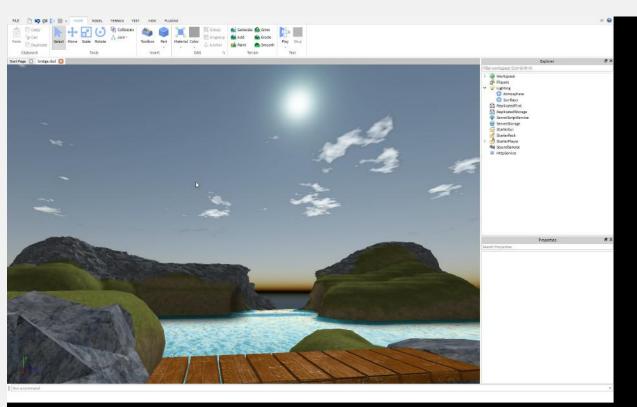
Sky Clouds Precipitation













High Dynamic Range
High fidelity lighting
Physically based shading
Particle lighting











Physics





Physics:

PGS is the default

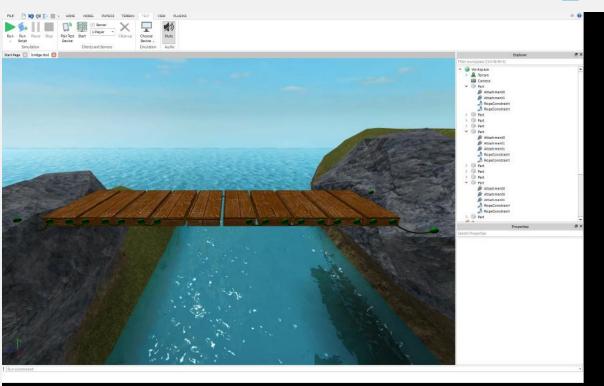
Do not expect spring solver updates



Constraints:

BallSocket, Hinge, Prismatic Rope, Rod, Spring In-game rendering Studio tools







Mechanism assembly New BodyMovers:

Position

Orientation

Velocity

New joints:

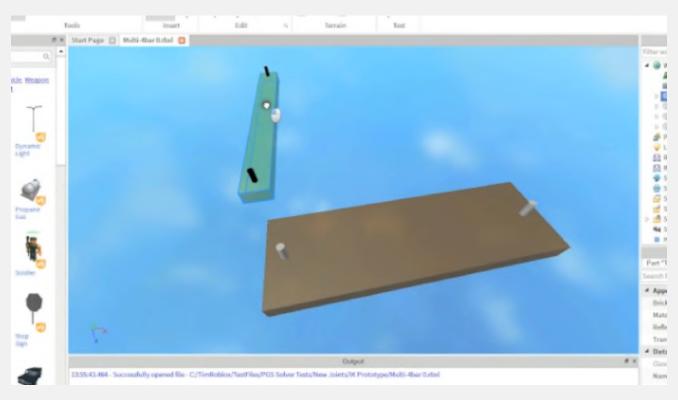
Roll Prismatic

Pitch Prismatic

Universal

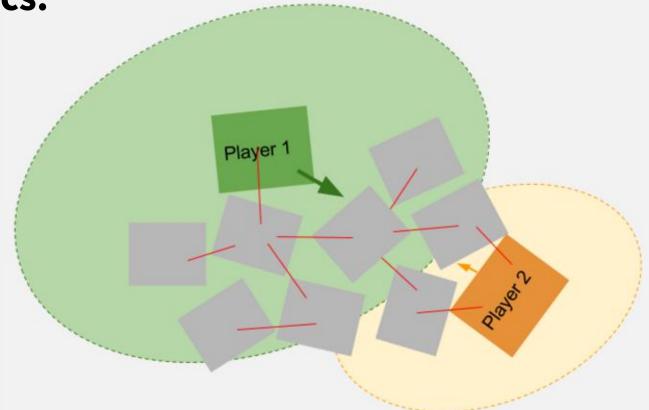






D-Physics:



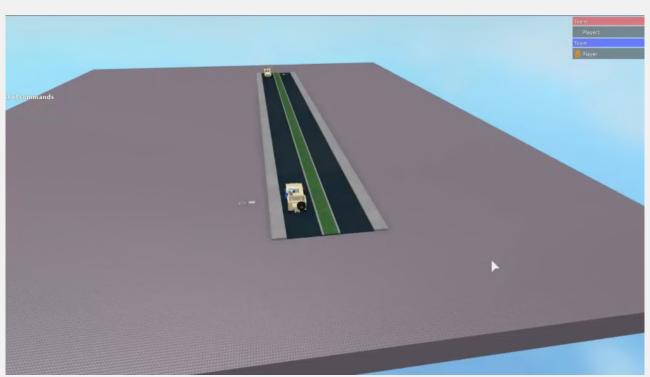




D-Physics:

Physics interpolation (15 Hz → 60 Hz) More responsive handoffs Constrained local simulation











Animations

(5x-10x faster)

Solver Collisions



Networking





Smooth(er) movement Precise hitboxes Mechanism interpolation





Network ping
Data ping
Server performance



VR







Oculus Rift
HTC Vive
Google Daydream
PSVR





Gamepad

Adapted for VR

Hand controllers

Redesigned for VR







Core GUI revamp
Developer GUI compatibility
Launch games from VR











Performance:

Part clustering optimizations
Better CPU Scheduling/Utilization
Tactical fixes

Thank You!

