

# Connected Culture and Natural Heritage in the Northern Environment

Game Engines



Northern Periphery and  
Arctic Programme

2014–2020



EUROPEAN UNION

Investing in your future  
European Regional Development Fund

Learning, Games and Heritage

Games and Virtual Worlds

Digital Reconstruction

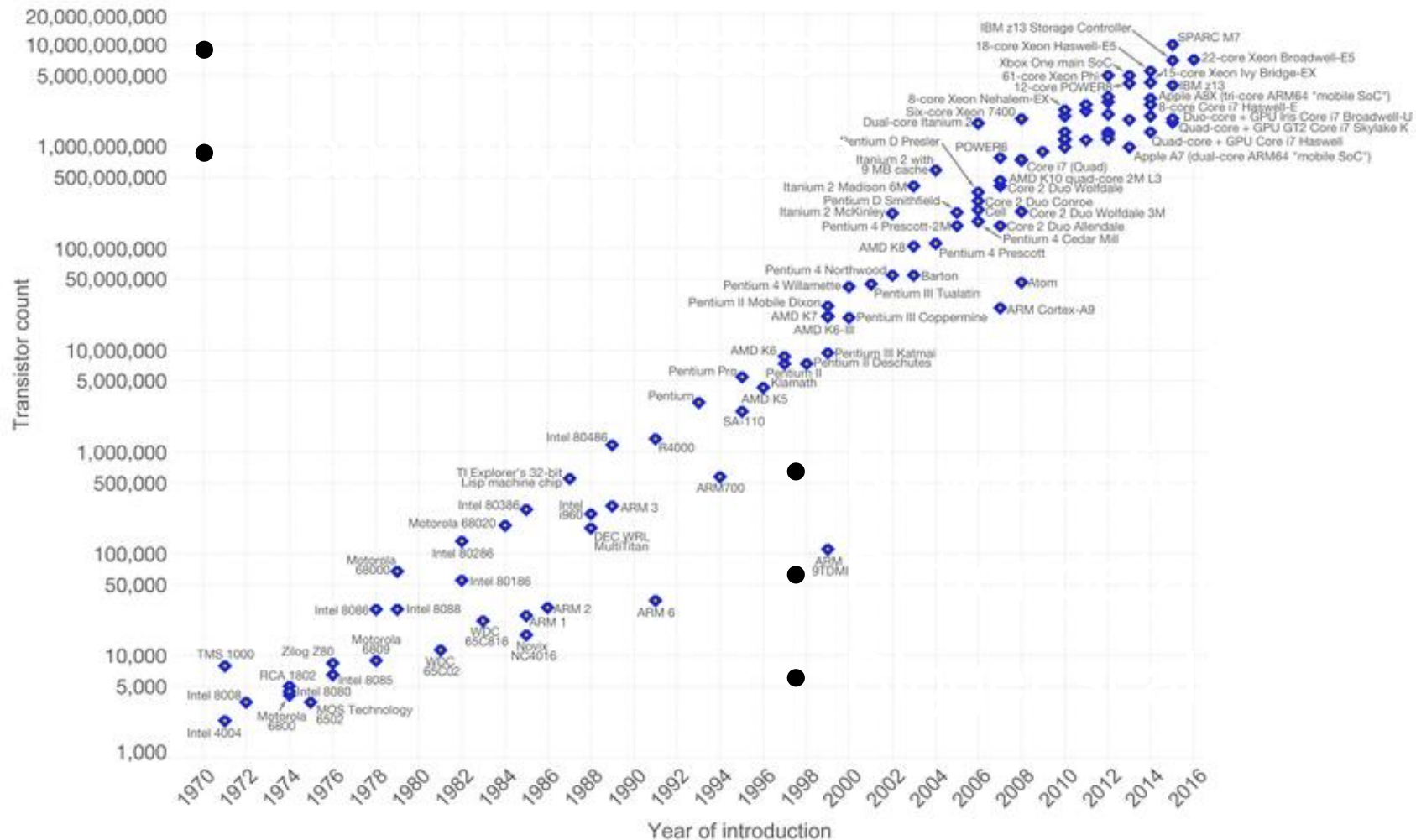
Game Engines and Unreal 4

Game technology in Exhibits

# Learn through Experience

- Higher level of learning
- What we can experience is limited
- The digital can extend





Data source: Wikipedia ([https://en.wikipedia.org/wiki/Transistor\\_count](https://en.wikipedia.org/wiki/Transistor_count))

The data visualization is available at OurWorldinData.org. There you find more visualizations and research on this topic.

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# What can we do now?

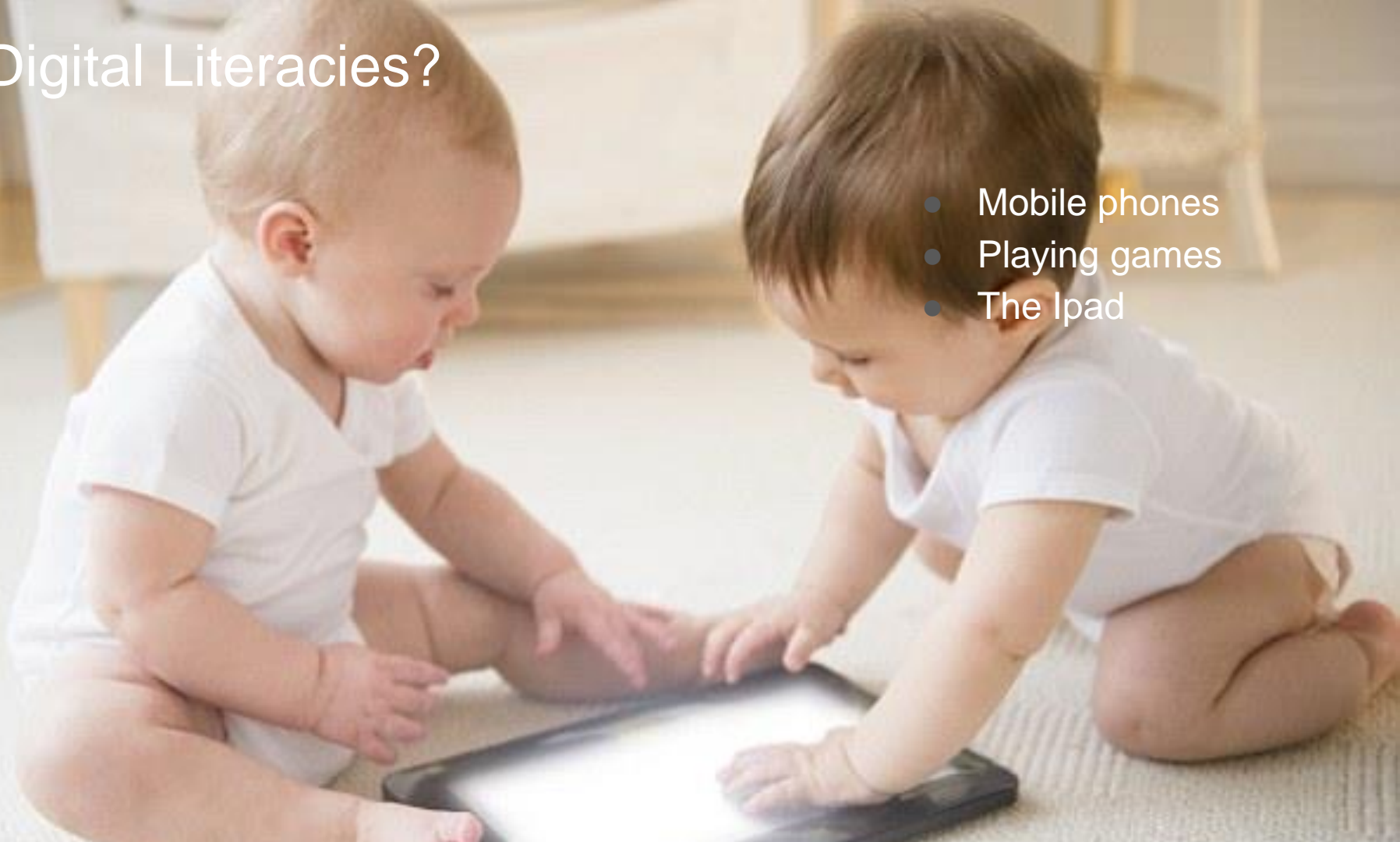
- Mores law
  - Computers
  - Mobile phones
    - Digital 3D – photogrammetry
- Game Engines – Scale and detail
- Phones – Immersion on the move





# Digital Literacies?

- Mobile phones
- Playing games
- The Ipad



Learning, Games and Heritage

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# Games for Heritage

- Total War series
- Assassins Creed Series
- Minecraft



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## Total War Saga: Thrones of Britannia

Available 3rd May

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1364, 17392

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Robert the Bruce

Edward 2



FOUR Time Commanders Press **F11** to exit full screen[Home](#) [Episodes](#) [Clips](#)

## The Battle of Zama: Finally the Romans launch their attack

A team of wrestlers try to rewrite history by keeping Scipio from taking Carthage.

5 December 2016

🕒 3 minutes

This clip is from



**Time Commanders**

Episode 1

# Assassins Creed







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# Game components

- Landscapes
- Digital Modelling
- Digitisation
- Animation



#### About

Blender is the free and open source 3D creation suite. It supports the entirety of the 3D pipeline—modeling, rigging, animation, simulation, rendering, compositing and motion tracking, video editing and game creation.

Blender Foundation · Blender website · Blender network

#### Get Involved

Blender is a public project, made by hundreds of people from around the world. By artists and individual artists, professionals and hobbyists, scientists, students, VR experts, animators, game artists, teachers, and the like, just on.

Development · Documentation · Education · Localization & i18n

#### Code Quest Campaign: A Success Story

Read the recap of this outstanding community achievement.

Read more

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AUTODESK

3DS MAX

Overview Features Compare Case

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## 3DS MAX

3D design software for modelling, animation and rendering

3ds Max 3D modelling and rendering software helps you to create realistic worlds in games, stunning scenes for design visualization and engaging virtual reality (VR) experiences.

Download Free Trial

Subscribe

Play Video (2:26 MIN)

For you a 3dsMax 3D Free for 3 days full trial

Downloaded 4,994,854 times (1,114,899) 4.6/5 (1,000+)

Purchase by phone

0800 354 9459 (free call)

Subscriber benefits

Includes support and more

System requirements

Available for: 64-bit

Compare releases

2018 vs. prior releases

Save 25% on subscriptions with trade in and switch back option

Save now >

#### Why 3ds Max?

View all features



**Easy, powerful modeling**  
Create, edit and animate a range of environments and detailed characters. See all 3D modelling features



**High-end rendering**  
Join forces with mental ray® (optional) including Arnold, V-Ray, Ray and mental ray. See all 3D rendering features



**Realistic 3D animation**  
Build interactive characters and realistic scenes in games and architecture. See all 3D animation features



**Flexible interoperability**  
Work with other 3D software, as well as SketchUp, Unity and Unreal all work with 3ds Max (links: 3ds Max). See all 3D workflow and pipeline features

#### What's new

##### 3ds Max Interactive

Build interactive virtual environments with the combined power of 3ds Max and a virtual reality engine or in place.

##### Arnold for 3ds Max

The Arnold plug-in is integrated into 3ds Max, giving you access to Arnold's latest features.

##### 3ds Max Fluids

Create realistic liquid behaviors directly in 3ds Max.

##### Spring workspaces

Create and animate projects in several workflow apps with one professional single-click.

See 3ds Max in action

AUTODESK | Overview | Features | Compare | Case studies | (14) | 3D and Software | Support & Training

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# M MAYA

Make it with Maya computer animation software

Powerful 3D animation, modelling, simulation and rendering software powered by integrated, powerful toolset. Use it for production, entertainment, motion graphics, virtual reality and creative creation.

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And you get a 3dsMax 3D Free for 3 days full trial

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Purchase by phone: 0800 354 9459 (free call) | Subscriber benefits: Includes support and more | System requirements: Available for: 64-bit | Compare products: Maya vs. Maya LT

Save 25% on subscriptions with trade in and switch back option | Save now >

### Maya features

View all features

**Animation workflow**  
Streamline in Maya's custom and faster workflow with new features such as Free Editor.

**Arnold integrated with Maya**  
Look & render faster than ever. Some changes to the UI, including grouping, rendering and camera (links: 3ds Max).

**Motion Graphics toolset**  
Quick & easy to create structural effects and animations with reusable objects (links: 3ds Max).

**Interactive grooming workflow (Groom)**  
Interactive brush-based grooming tools give you greater control and accuracy in styling and grooming hair and fur (links: 3ds Max).

#### What's new

**UV editor workflow, look and feel**  
The UV editor workflow has been reworked and includes a new UV Toolkit with better tools and functionality.

**Clamp modifier for interactive grooming**  
Remove and restore clamping effects in hair and fur to create natural-looking hair.

**After Effects live link**  
Create a live link between Maya and After Effects to make real-time changes and view scenes simultaneously.

**Additional MASH nodes**  
The MASH toolset gives you new nodes (curve, signal, world, plane and more), as well as updates to existing nodes.

#### See what Maya users are saying

SketchUp | Products | 3ds Max | Site | Learn | 3ds Max

# Think in 3D. Draw in 3D.

Have some fun while you're at it

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There's a reason SketchUp is synonymous with 3D modelling and 3D modelling software - we work towards the goal of productivity. Start by drawing lines and shapes. Push and pull surfaces to form them into 3D forms. Sketch, copy, rotate and paint to make anything you like.

Watch a getting started video. Learn by watching our feature, tutorial, and expert video tutorials.

Learn about SketchUp's tools. Our knowledge center walks you through 3D modelling workflows.

Ask a question in the SketchUp Forums.

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# Digital Artefacts







# In the Landscape





Learning, Games and Heritage

Games and Virtual Worlds

Digital Reconstruction

Game Engines and Unreal 4

Game technology in Exhibits

# Game Engines

- Lots of them
- Virtual Worlds
- UNITY
- UNREAL 4
- Minecraft



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# List of game engines

From Wikipedia, the free encyclopedia

**Game engines** are tools available for game designers to code and plan out a game quickly and easily without building one from the ground up. Whether they are 2D or 3D based, they offer tools to aid in asset creation and placement.

## Engines [ edit ]

Note: The following list is not exhaustive. Also, it mixes **game engines** with **rendering engines** as well as **API bindings** without any distinctions.

Name	Primary programming language	Scripting	Cross-platform	2D/3D oriented	Target platform	Notable games	License	Notes and references
<b>4A Engine</b>			Yes	3D	Windows, OS X, Linux, PlayStation 3, PlayStation 4, Xbox 360, Xbox One	Metro 2033, Metro: Last Light	Proprietary	
<b>A-Frame (VR)</b>	HTML, JavaScript	JavaScript	Yes	3D	Cross-platform	A-Painter <sup>[1]</sup>	MIT	Open source Entity component system WebVR framework.
<b>Adventure Game Interpreter</b>		C style	Yes	2D	DOS, Apple SOS, ProDOS, Classic Mac OS, Atari TOS	List	Proprietary	
<b>Adventure Game Studio</b>	C++	AGSScript	Yes	2D	Windows, Linux	Chzo Mythos, The Blackwell Series	Artistic 2.0	Mostly used to develop third-person pre-rendered graphic adventure games, one of the most popular for developing amateur adventure games
<b>Alamo</b>			Yes	3D	Windows, OS X, Xbox 360	Star Wars: Empire at War, Star Wars: Empire at War: Forces of Corruption, Universe at War: Earth Assault	Proprietary	
<b>Aleph One</b>	C++	Lua, Marathon markup language	Yes	2.5D	Windows, Linux, OS X	Aleph One (Marathon remake)	GPL	FPS engine
<b>Allegro</b>	C	Ada, C++, C#, D, Lisp, Lua, Mercury, Pascal, Perl, Python, Scheme	Yes	2D	Windows, Linux, OS X, iOS, Android, Raspberry Pi, DOS	Factorio <sup>[2]</sup>	zlib	Graphics, audio, input
<b>AntiryaD Gx</b>		C, C++, Gel	Yes	3D	Windows, Mac OS, Linux, iOS, Android, AmigaOS, AROS, MorphOS, NACL		Proprietary	
<b>Anura</b>	C++, FFL <sup>[3]</sup>	FFL <sup>[3]</sup>	Yes	2D	Windows, Linux, OS X, iOS, Android, BlackBerry 10	Frogatto & Friends, Argentum Age <sup>[4]</sup> , Cube Trains <sup>[5]</sup>	zlib	[citation needed]
<b>Anvil</b>	C++, C#		Yes	3D	Windows, PlayStation 3, PlayStation 4, PlayStation Vita, Wii U, Xbox 360, Xbox One	List	Proprietary	
<b>AppGameKit</b>	C++, BASIC	C++, AGK BASIC	Yes	2D, 3D	Windows, Mac, iOS, Android, HTML5, Raspberry Pi	Echoes, Driving Test Success Apps, Squashes	Proprietary	
<b>ArdoR3D</b>	Java		Yes	3D	Cross-platform		zlib	Fork of JMonkeyEngine 2.0
<b>Aurora toolset</b>	C++	NWScript	Yes	3D	Windows, Linux, OS X	Neverwinter Nights	Proprietary	
<b>BigWorld</b>		Python	Yes	3D	Windows, Linux, Xbox 360, PlayStation 3	List	Proprietary	
<b>Blend4Web</b>	JavaScript, Python, C, C++	JavaScript	Yes	3D	OpenGL, Windows, Linux, OS X, iOS, Android	Experience Curiosity, Pelgior's Tale, Back to the Middle Ages	GPLv3 or commercial	Game content, including graphics, animation, sound, and physics, is authored in the 3D modeling and animation suite Blender <sup>[6]</sup>
<b>Blender</b>	C, C++	Python	Yes	2D, 3D	Windows, Linux, OS X, Solaris	Yo Frankie!, Sintel The Game, ColorCube	GPL	2D/3D game engine packaged in a 3D modeler with integrated Bullet physics library <sup>[7][8]</sup>
<b>Bork3D Game Engine</b>	C++		Yes	3D	IOS, OS X, Windows	List	BSD	
<b>BRender</b>			Yes	3D	Windows, DOS, PlayStation	Carnagededon, FX Fighter, I-War (Independence War)	Proprietary	
<b>Build engine</b>	C		Yes	2.5D	Windows, Linux, OS X, DOS	Duke Nukem 3D, Shadow Warrior, Blood, Redneck Rampage	Custom, free non-commercial use	FPS engine; 2.5D, 2D grid base geometry
<b>Buildbox</b>	C++		Yes	2D	Windows, OS X, iOS, Android	Ball Jump, Sky, The Line Zen, Phases	Proprietary	Drag and drop game builder without scripting
<b>C4 Engine</b>			Yes	3D	PlayStation 4, PlayStation 3, Windows, OS X, Linux, iOS	List	Proprietary	Retired, no longer available for licensing <sup>[9]</sup>
<b>Cafu Engine</b>	C++	Lua	Yes	3D	Windows, Linux, OS X		GPL or Proprietary	Includes map editor and networking <sup>[10]</sup>
<b>Chrome Engine</b>	C++		Yes	3D	Windows, Linux, PlayStation 4, Xbox One	List	Proprietary	
<b>ClanLib</b>	C++		Yes	2.5D	Windows, Linux, OS X		zlib	
<b>Clausewitz</b>	C++		Yes	3D	Windows, OS X, Linux	All Paradox Development Studio games since 2007	Proprietary	
<b>Clickteam Fusion</b>			Yes	2D	Windows, iOS, Android, HTML5, Adobe Flash	Five Nights at Freddy's	Proprietary	
<b>Cocos2d, Cocos2d-x, Cocos2d-html5</b>	C++, Python, Objective-C, JavaScript	JavaScript, Java, Lua	Yes	2D, 2.5D, 3D	Windows, Linux, OS X, iOS, Android, BlackBerry, Tizen	Hardest Game Ever 2, DQMSL, Tiny Village, Badland, Small Street, Tiny Tower, Pocket Planes, Hill Climb, Star Thief, Geometry Dash	MIT	Android target binds to Java; iOS target uses Objective-C
<b>Codea</b>	Lua		No	2D	IOS	Cargo-Bot	Apache 2.0	
<b>Coldstone</b>			Yes	2D	Mac OS 9, OS X, Windows	Pillars of Garendal	Proprietary	
<b>Construct</b>	C++	JavaScript, Event System	Yes	2D	Windows, OS X, Wii U, HTML5 capable internet browsers		Proprietary, GPL Classic version	
<b>CopperCube</b>			Yes	3D	Windows, OS X, Android, WebGL, Adobe Flash		Proprietary	
<b>Core3D</b>	Objective-C		Yes	3D	Windows, Linux, OS X, iOS	CoreBeach	3D Engine MIT, Source Code	[11]



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AN EPISODIC ADVENTURE  
SERIES FROM TELLTALE  
GAMES



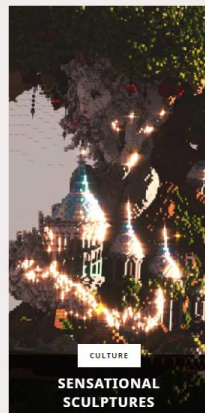
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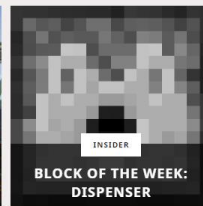
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INTERSTELLAR SNOW GLOBE



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DISPENSER





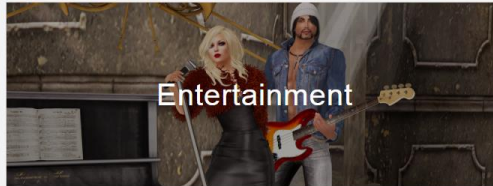
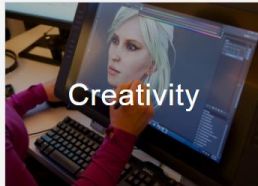
# Have an Adventure

Discover incredible experiences, fascinating people, and vibrant communities in this vast virtual world  
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## Explore Second Life



Agree and Proceed

## General

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## What is OpenSimulator?

OpenSimulator is an open source multi-platform, multi-user 3D application server. It can be used to create a virtual environment (or world) which can be accessed through a variety of clients, on multiple protocols. It also has an optional facility (the [Hypergrid](#)) to allow users to visit other OpenSimulator installations across the web from their 'home' OpenSimulator installation. In this way, it is the basis of a nascent distributed Metaverse.

OpenSimulator allows virtual world developers to customize their worlds using the technologies they feel work best - we've designed the framework to be easily extensible. OpenSimulator is written in [C#](#) [☞](#), running both on Windows over the [.NET Framework](#) [☞](#) and on Unix-like machines over the [Mono](#) [☞](#) framework. The source code is released under a [BSD License](#), a commercially friendly license to embed OpenSimulator in products. If you want to know about our development history, see [History](#).

Out of the box, OpenSimulator can be used to simulate virtual environments similar to [Second Life™](#) [☞](#), given that it supports the core of SL's [messaging protocol](#) [☞](#). As such, these virtual worlds can be accessed with the regular [SL viewers](#) [☞](#). However, OpenSimulator does not aim to become a clone of the Second Life server platform. Rather, the project aims to enable innovative feature development for virtual environments and the Metaverse at large.

OpenSimulator is getting more stable over time but is still a high complex software system that can suffer various bugs and quirks; handle with care!

## Features

- Supports online, multi-user 3D environments as small as 1 simulator or as large as thousands of simulators.
- Supports 3D virtual spaces of variable size within one single instance.
- Supports multiple clients and protocols - access the same world at the same time via multiple protocols.
- Supports realtime Physics Simulation, with multiple engine options including Bullet and ODE.
- Supports clients that create 3D content in real time.
- Supports inworld scripting using including LSL/OSSL and C#.
- Provides unlimited ability to customize virtual world applications through the use of [scene plugin modules](#).

For a more extensive list, see the [Feature Matrix](#).

## Running an OpenSimulator-Based World

- [Downloading OpenSimulator](#)
- [Required Dependencies](#)
- [Building OpenSimulator](#)
- [Configuring and Running OpenSimulator](#)
- [Server Commands](#)
- [Frequently Asked Questions](#)

## Participating in the OpenSimulator Community

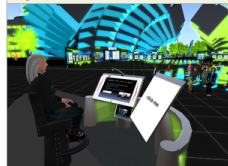
OpenSimulator is an [open source](#) [☞](#) project, and is powered by the community members that devote time and energy to the effort. There are many ways to participate and contribute to the community:

- Participate via [IRC](#). There are channels for users and developers.
- Participate via the [Mailing Lists](#). There are mailing lists for OpenSimulator use and development, as well as broader topics such as education and the Hypergrid.
- [Contribute to this wiki](#), making the OpenSimulator documentation even better. Don't be afraid of making mistakes - they can be easily corrected.
- Report [bugs](#) or submit [patches](#) via our [mantis bug tracker](#) [☞](#). If you're submitting code, please read through the [Contributions Policy](#) before starting.
- Create an OpenSimulator related project hosted on the [Forge](#) [☞](#) or [elsewhere](#) on the web. In the forge there are over a dozen registered projects, and it's a great way to further extend the OpenSimulator community.
- Participate to open content creation for OpenSimulator. More details at [Artist Home](#).
- Participate in the weekly [Office Hours](#) for OpenSimulator development.

## Pages by Category:

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## Image of the Moment:



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[sh! fishes](#)

Other downloads may be found at either the [Download page](#), or the [OpenSim Release Repository](#) [☞](#)

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# Unity 2017: The world-leading creation engine

Unity 2017 introduces new features that help teams of artists and developers build experiences together. Powerful new tools, such as Timeline and Cinemachine, empower artists to create cinematic content and gameplay sequences without the need of an engineer. Creators can now spend more time doing, less time queueing.

## Personal

Free  
For beginners, students, and hobbyists

## Plus

\$35/month  
For serious creators

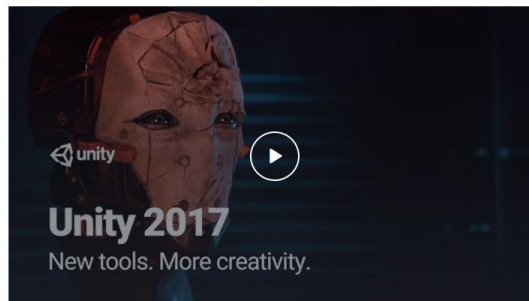
## Pro

\$125/month  
For professionals and studios

[Get Unity](#)

## New tools. More creativity.

Unity 2017 introduces new features that help teams of artists and developers build experiences together. Powerful new tools, such as Timeline and Cinemachine, empower artists to create cinematic content and gameplay sequences without the need of an engineer. Creators can now spend more time doing, less time queueing.



# Make Something Unreal

with the most powerful creation engine

GET STARTED NOW

EPIC GAMES  
SIZZLE REEL 2017

## PROVEN POWERFUL TECHNOLOGY

### Uncompromised Quality, Proven Results

Unreal Engine is a complete suite of creation tools designed to meet ambitious artistic visions while being flexible enough to ensure success for teams of all sizes. As an established, industry-leading engine, Unreal delivers powerful, proven performance that you can trust.

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Games and Virtual Worlds

Heritage Game Engines

Using Unreal 4

Game technology in Exhibits

# Getting Started in Unreal 4

<https://docs.unrealengine.com/>



[DirectX End-User Runtimes  
\(June 2010\)](#)

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Get Started with Unreal Engine 4



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Level Designer Quick Start



Programmer Quick Start



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Volumetric Fog



Background Blur Widget



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Engine Feature Samples



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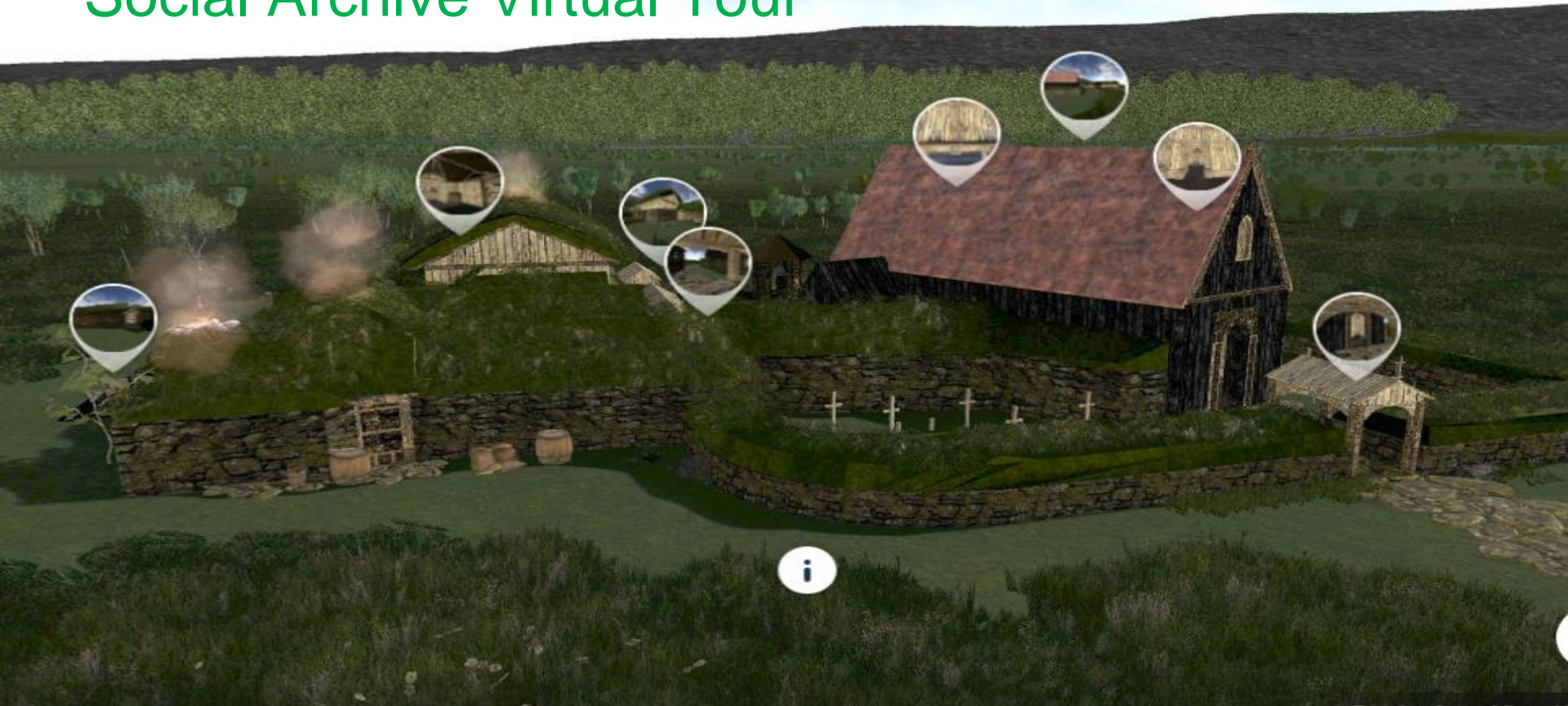
# Applications

- Mobile Virtual Reality
- Social Archive Sites
- Virtual Reality Exhibits





# Social Archive Virtual Tour



Tour by Open Virtual



Viking Church



Porch



Inside the Church



Alter



Outside



### MOVE INTO VIRTUAL REALITY

This Virtual Reality experience has been created to help you explore hidden landscapes, experience yourself in breath-taking views and travel back in time to see what life was like in a Torrisland and Llandudno.

Landscapes and buildings have been recreated using historical photographs and survey data to help make this an interesting experience you will not forget!

#### STEP 1



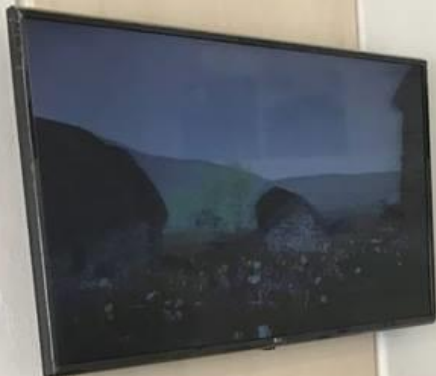
Put on the Virtual Reality headset to begin your experience.

#### STEP 2



Put the headset on your head with the adjustable strap at the top. The headset will help you see the virtual world.

Once you have experienced these virtual landscapes why not go out there and see what you can find in the real world. Explore and enjoy!



### MOVE INTO VIRTUAL REALITY...

This Virtual Reality experience has been created to help you explore hidden landscapes, experience yourself in breath-taking views and travel back in time to see what life was like in the past in Torrisland and Llandudno.

Landscapes and buildings have been recreated using historical photographs and survey data to help make this an interesting experience you will not forget!

#### STEP 1



Put on the Virtual Reality headset to begin your experience.

#### STEP 2



Put the headset on your head with the adjustable strap at the top. The headset will help you see the virtual world.

#### STEP 3



Transfer into a 360 degree experience and explore the virtual world.

#### STEP 4



Use the Xbox controller for more detailed navigation and to play through the experience.

Once you have experienced these virtual landscapes why not go out there and see what you can find in the real world. Explore and enjoy!





# Resources

- Maya
- 3DS
- Blender
- Minecraft
- OpenSim
- Unreal 4
- SketchUp