



TECH 1711 - Mixed Reality Studio

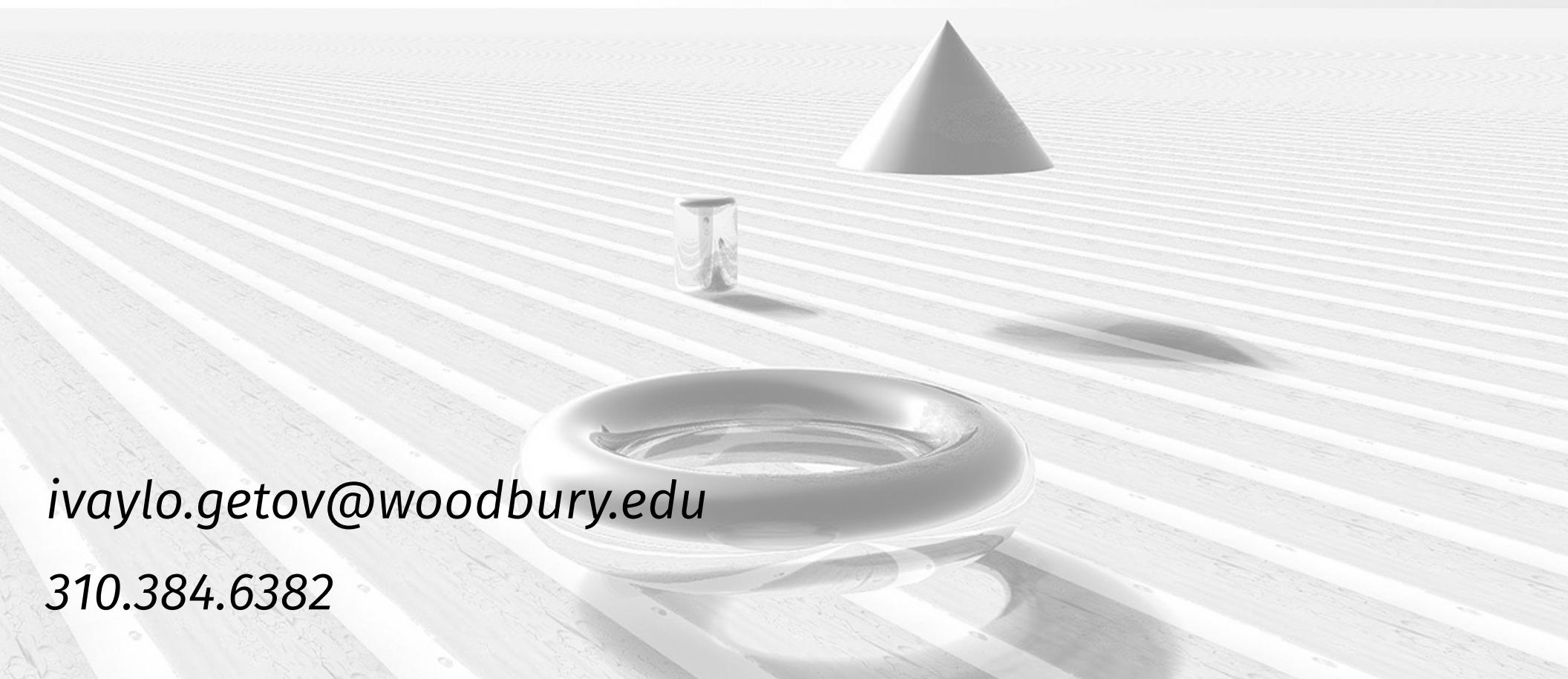
# Most Up-to-date Syllabus:

*<https://github.com/ivaylopg/MixedRealityStudio>*

# Contact Me

*ivaylo.getov@woodbury.edu*

310.384.6382



The background features a dark purple gradient. In the center is a large, solid red circle. The foreground consists of two stylized, purple, low-poly mountain ranges that meet at the bottom, creating a sense of depth. A light gray grid floor is visible at the base of the mountains.

# What is AR/VR/MR?

The background features a dark purple gradient with a large, semi-transparent red sphere centered in the middle. The sphere has a subtle texture and a bright highlight on its upper right side. Below the sphere is a wireframe grid composed of thin, light-colored lines forming a perspective view of a plane. The overall aesthetic is minimalist and modern.

*Inducing targeted behavior in an organism by using  
artificial sensory stimulation, while the organism has  
little or no awareness of the interference.*

The background features a dark purple gradient with a large, semi-transparent red circle centered in the middle. The foreground consists of a dark purple surface with a low-poly, triangular grid pattern.

*Inducing behavior  
artificial sensory stimulation  
little or no awareness of the interference.*

- *Inducing behavior*
- *artificial sensory stimulation*
- *little or no awareness of the interference.*

Predominantly  
Real World

## AR Augmented Reality

Blends virtual worlds  
with the real world by  
overlaying generated  
graphics and audio  
onto the real world

JASS  
Just Another  
Smartphone  
Screen



AR

## Augmented Reality

Blends virtual worlds  
with the real world by  
overlaying generated  
graphics and audio  
onto the real world



Predominantly  
Computer Generated

VR

## Virtual Reality

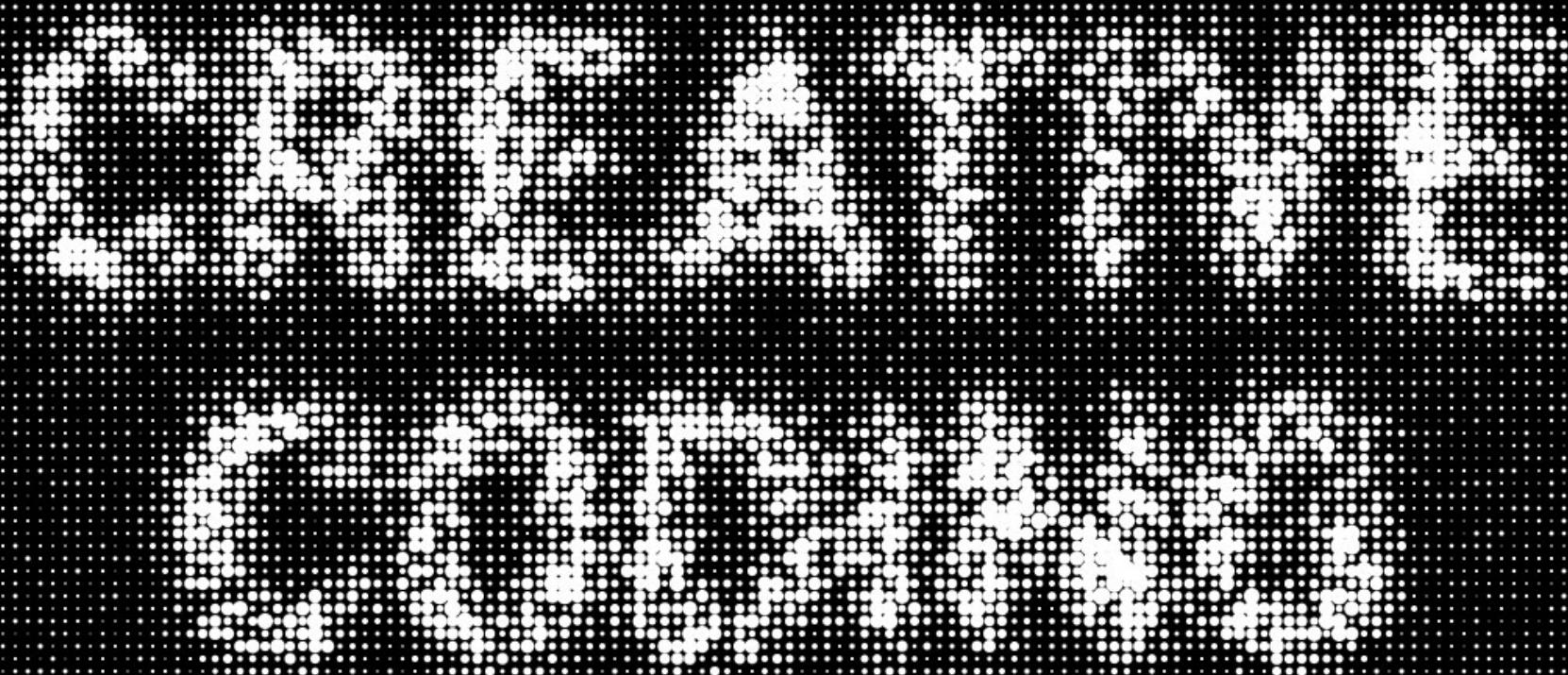
Closed computer  
generated environment  
with no direct input  
from or interaction with  
the real world

MR  
Mixed Reality



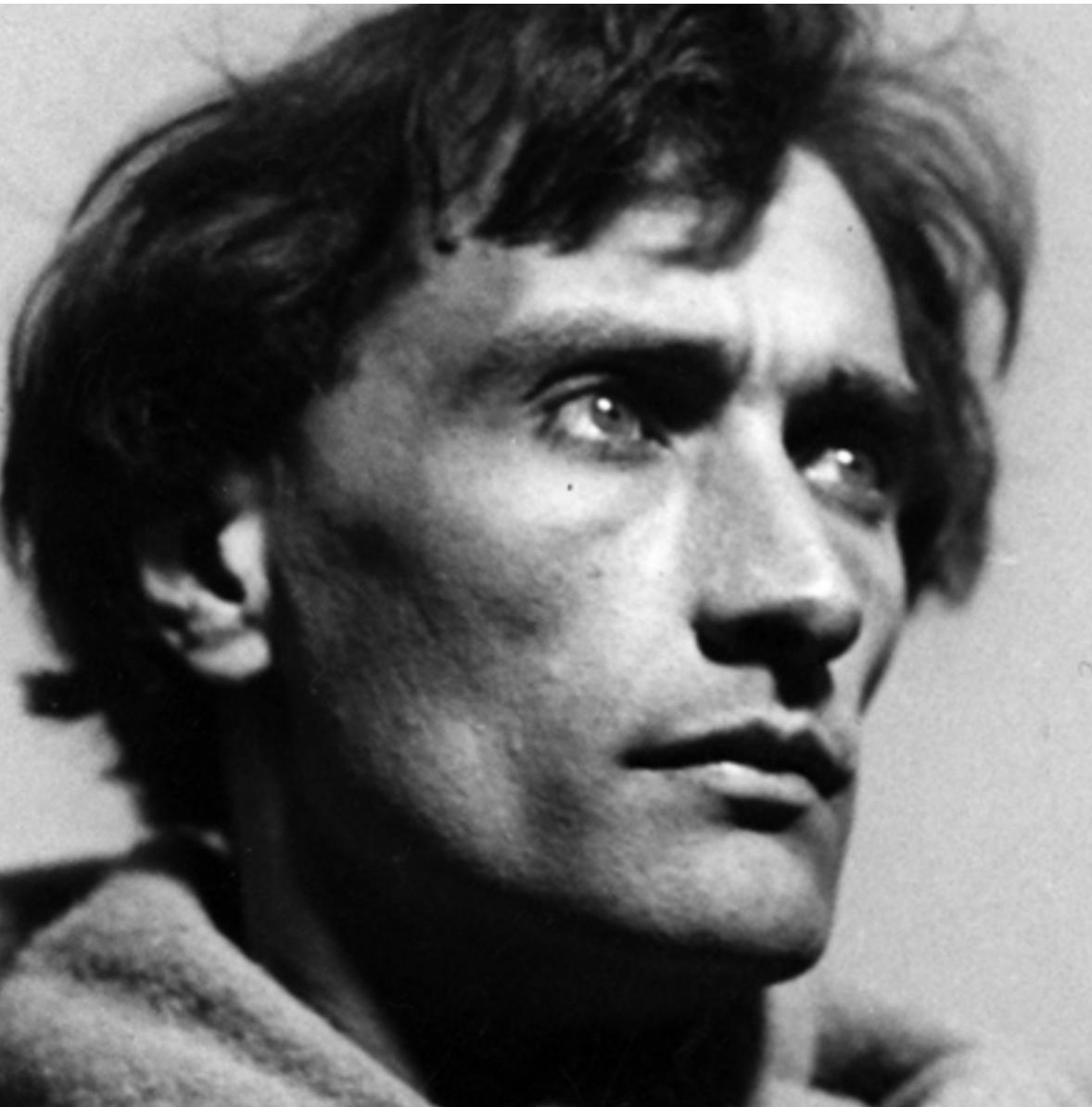
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# What is AR/VR/MR?







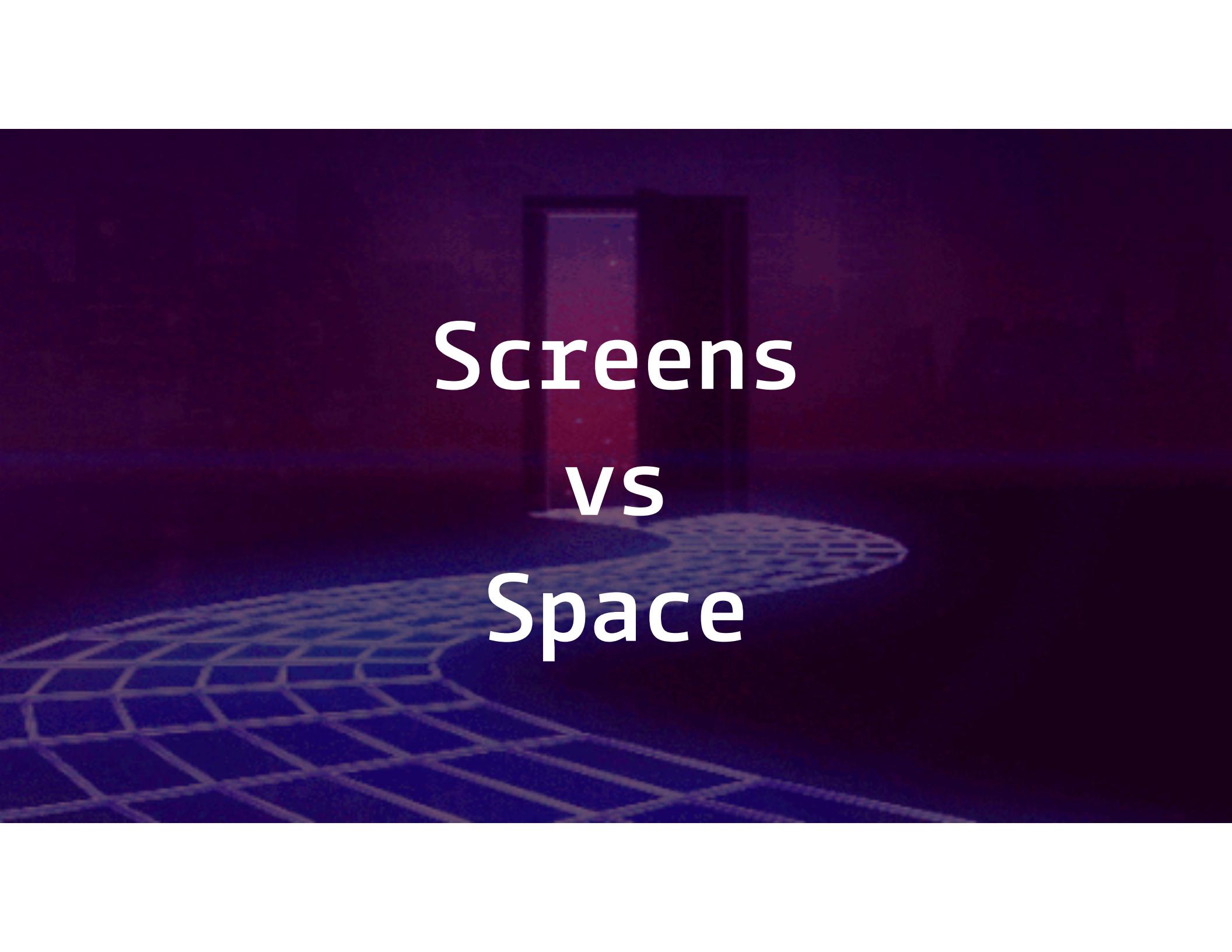


*[T]he theater is a mirage....  
And the principle of theater...  
should be understood as the  
expression of an identity...in  
which the characters,  
objects, images, and all that  
constitutes the **virtual reality**  
of the theater develops, and  
the purely fictitious and  
illusory world [is] evolved.*



**<http://www.creativeapplications.net>**

**<http://prostheticknowledge.tumblr.com/>**



Screens  
vs  
Space

Netflix

www.netflix.com/browse

NETFLIX

Browse ▾ DVD

Search

Michelle

My List

NETFLIX CHEF'S TABLE

NETFLIX DAREDEVIL

NETFLIX BLOODLINE

NETFLIX UNBREAKABLE KIMMY SCHMIDT

NETFLIX MARCO POLO

NETFLIX VIBRANT

# Marvel's Daredevil

★★★★★ 2015 TV-MA 1 Season

Blinded as a young boy, Matt Murdock fights injustice by day as a lawyer and by night as the Super Hero Daredevil in Hell's Kitchen, New York City.

Starring: Charlie Cox, Deborah Ann Woll, Vincent D'Onofrio  
Genres: TV Shows, Comic Book & Superhero TV, Crime TV Shows  
This show is: Exciting, Gritty, Dark

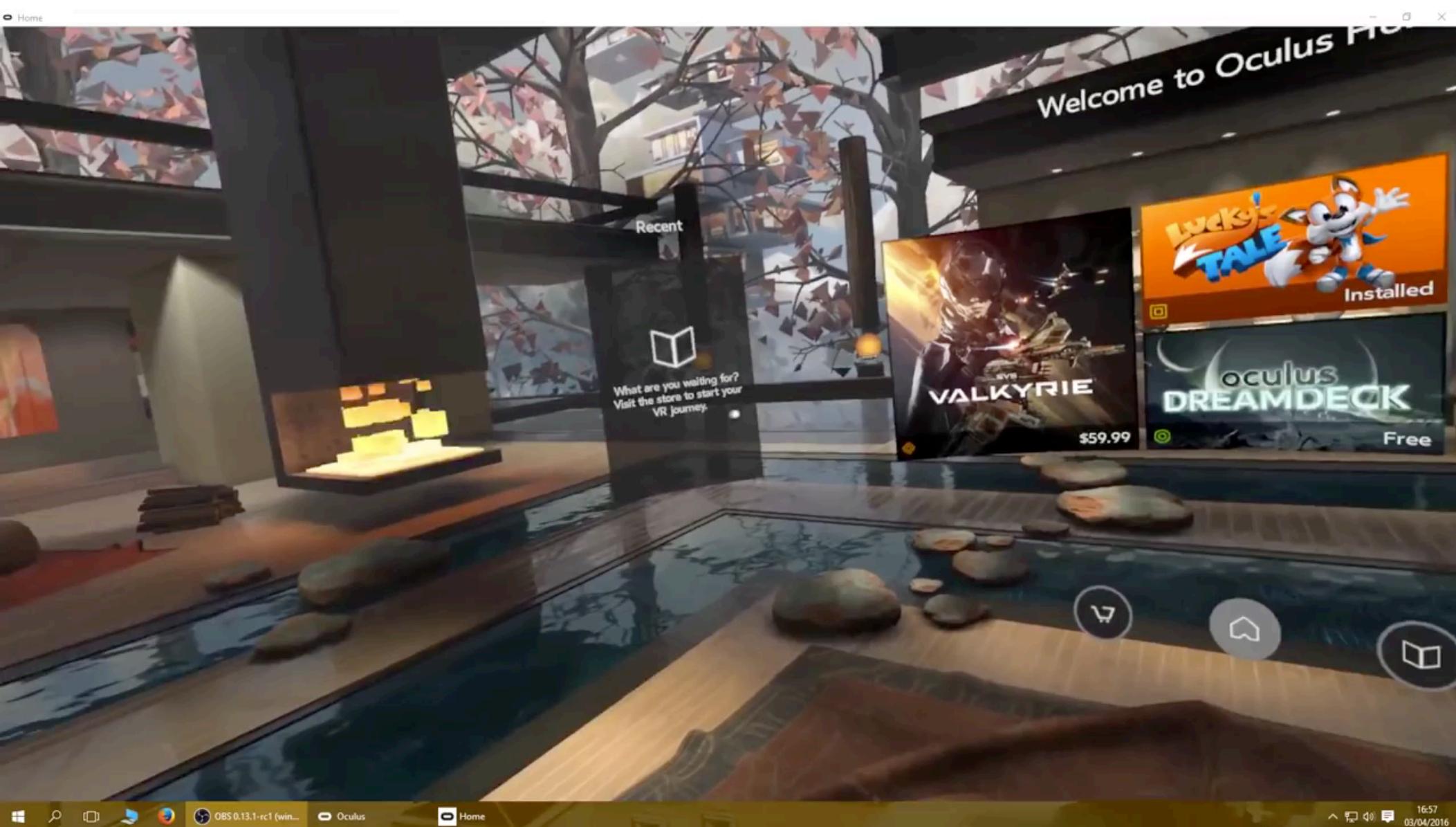
"Law & Order: Criminal Intent" star Vincent D'Onofrio plays Daredevil's nemesis Wilson Fisk, a.k.a. Kingpin.

MY LIST

OVERVIEW EPISODES MORE LIKE THIS DETAILS





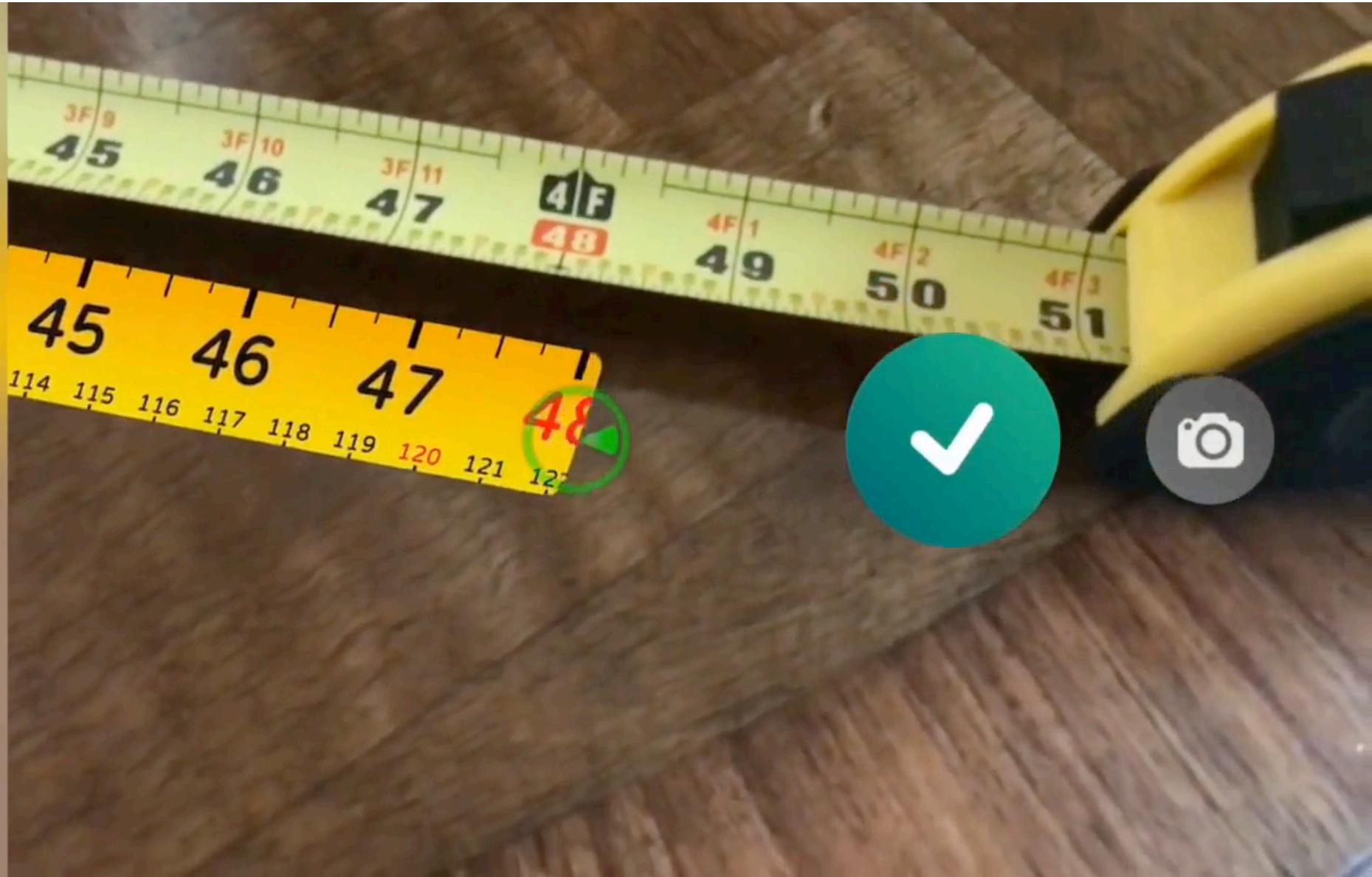


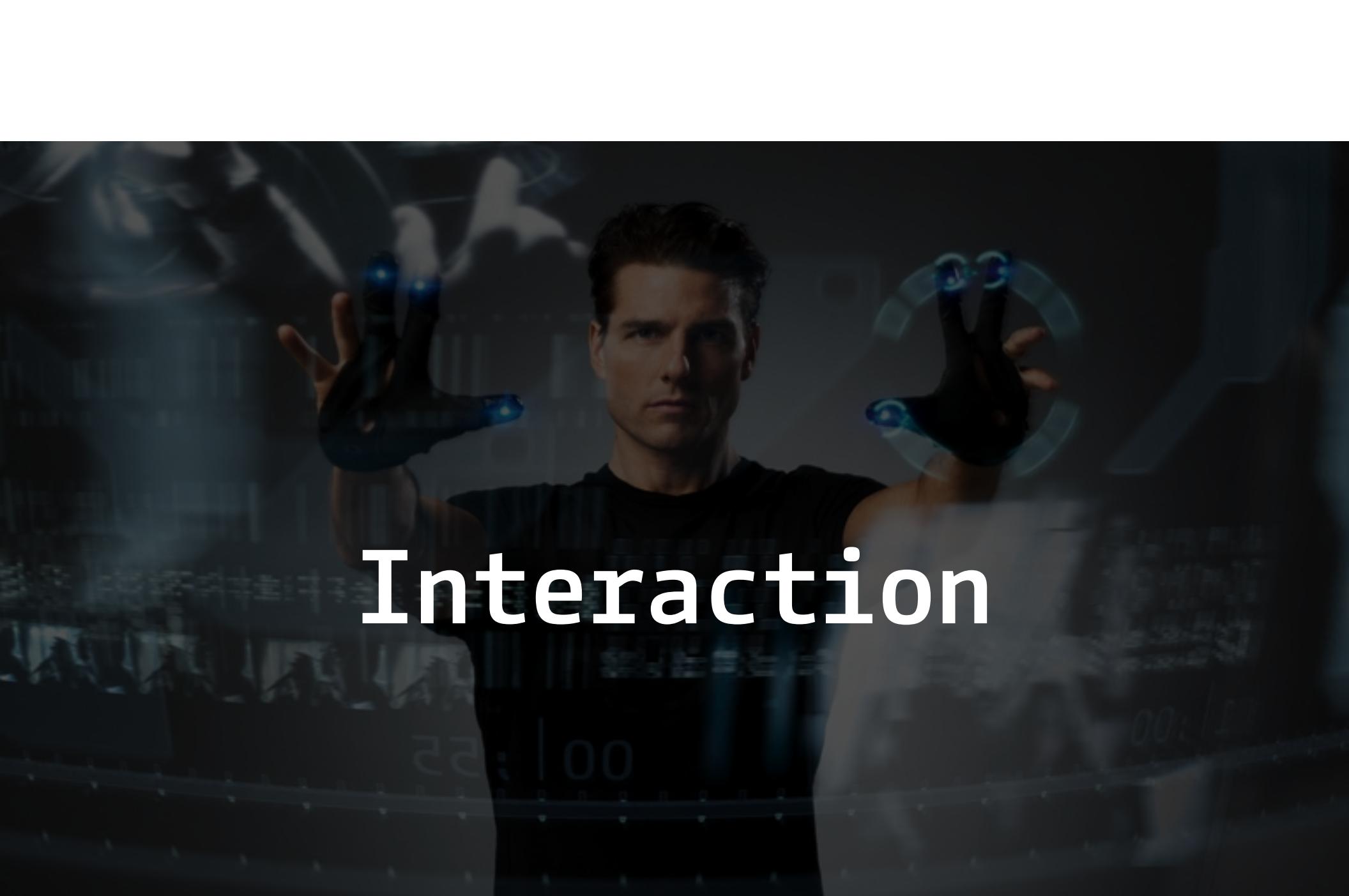
48.0 in

122 cm

METRIC

4.0ft



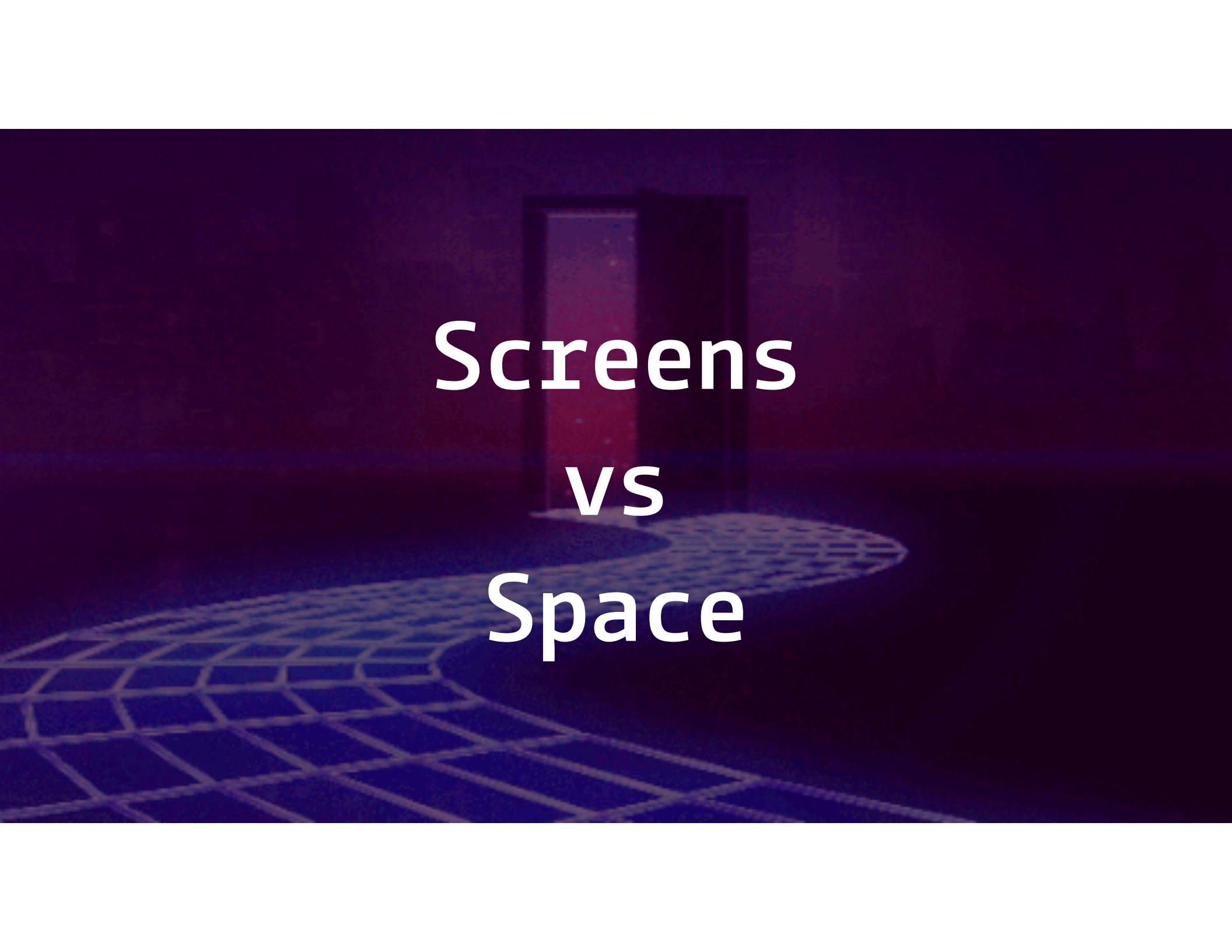


# Interaction

A man wearing a VR headset and motion capture sensors on his arms, standing in a dark room with glowing blue spheres.

# Manipulation

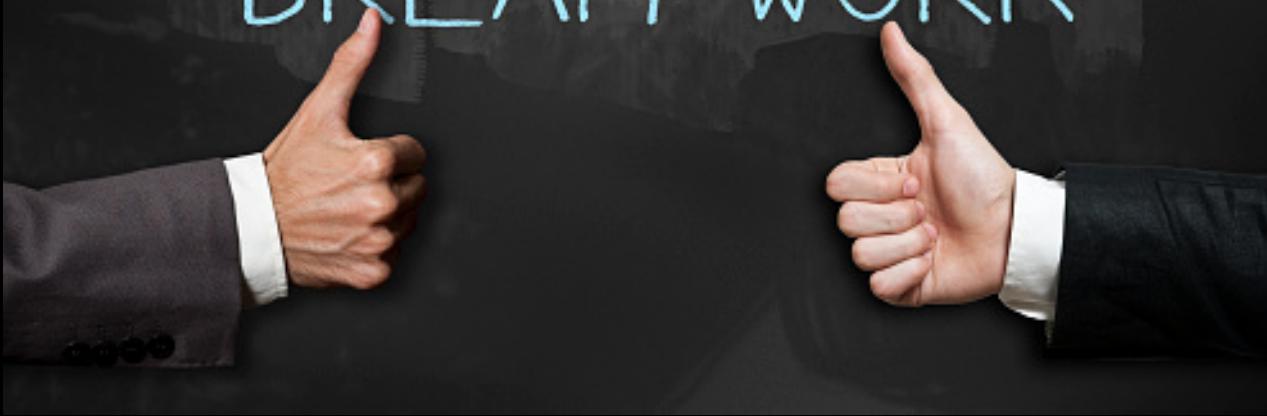
# Exploration

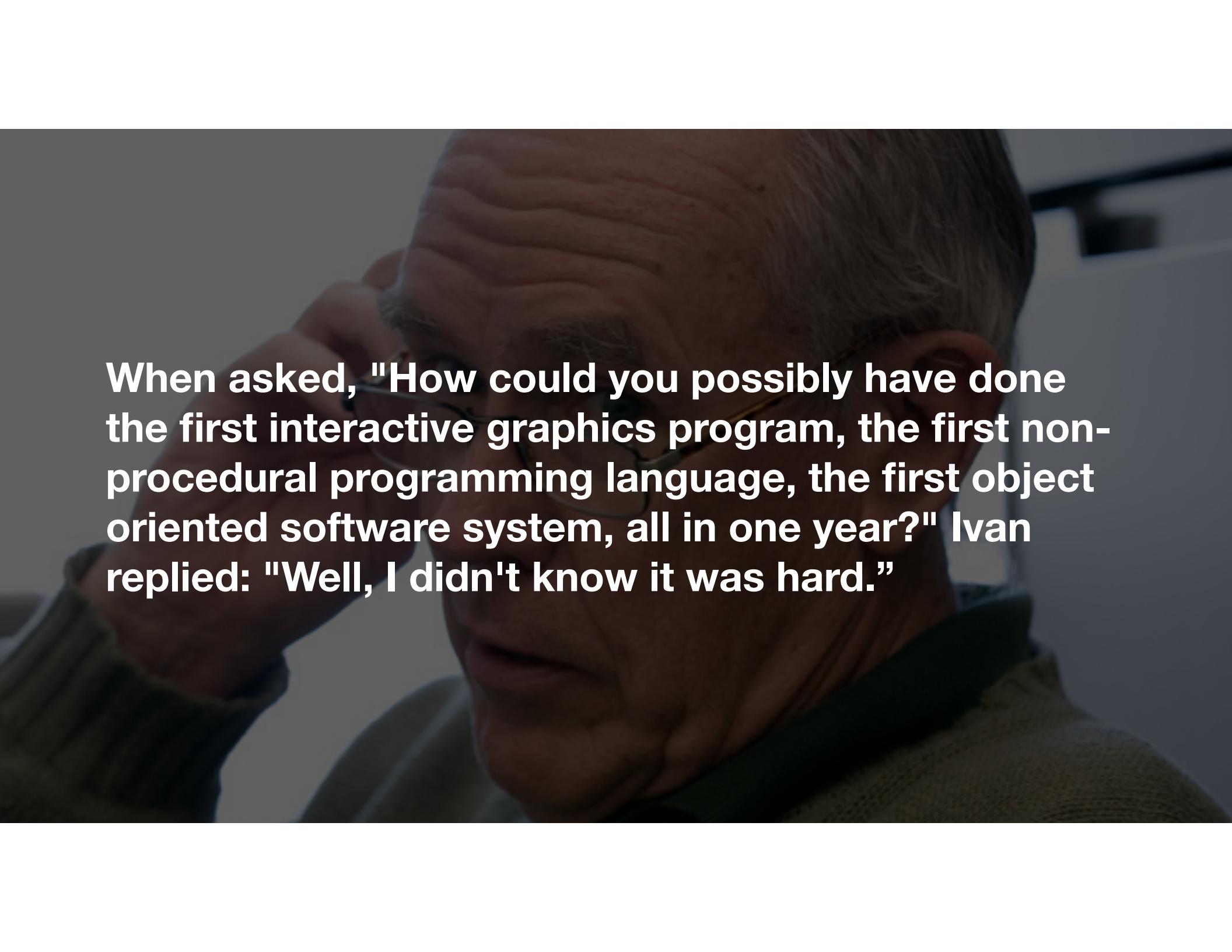


Screens  
vs  
Space



TEAMWORK  
MAKES THE  
DREAM WORK



A close-up, slightly blurred portrait of Ivan Sutherland. He is wearing dark-rimmed glasses and a green button-down shirt. His gaze is directed downwards and to his right, with a thoughtful expression. The background is out of focus.

**When asked, "How could you possibly have done the first interactive graphics program, the first non-procedural programming language, the first object oriented software system, all in one year?" Ivan replied: "Well, I didn't know it was hard."**

Something Digital you Wish you could touch?

Something big you wish you could see small?

Something small you wish you could see big?

Something invisible you wish you could see?

Tool?

Format?

No bad ideas!

Specifically think about  
places where technology is a  
**barrier**.

Something Digital you Wish you could touch?

Something big you wish you could see small?

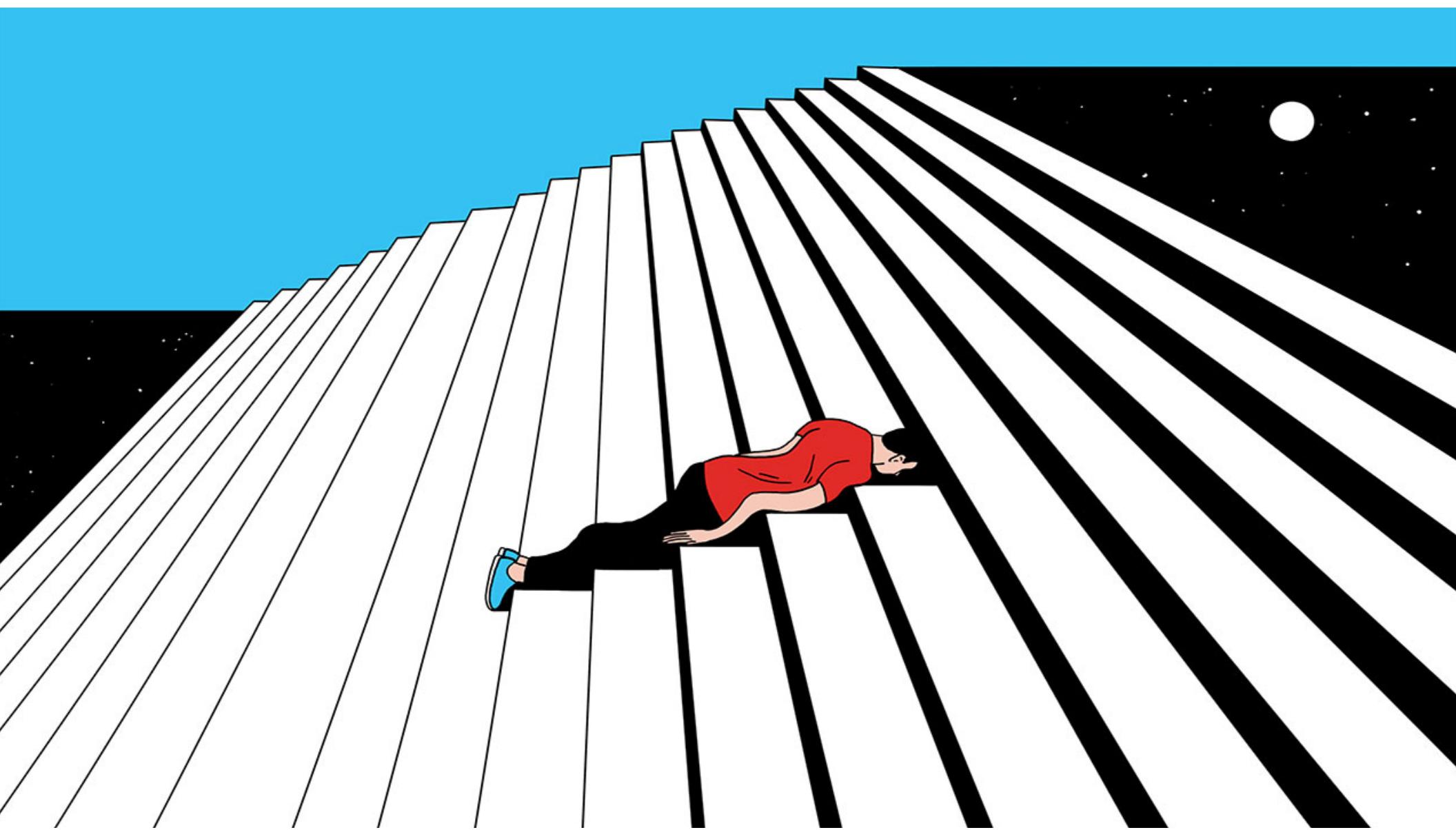
Something small you wish you could see big?

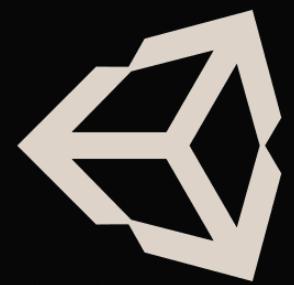
Something invisible you wish you could see?

Combine Similar Ideas

Separate Complex Ideas

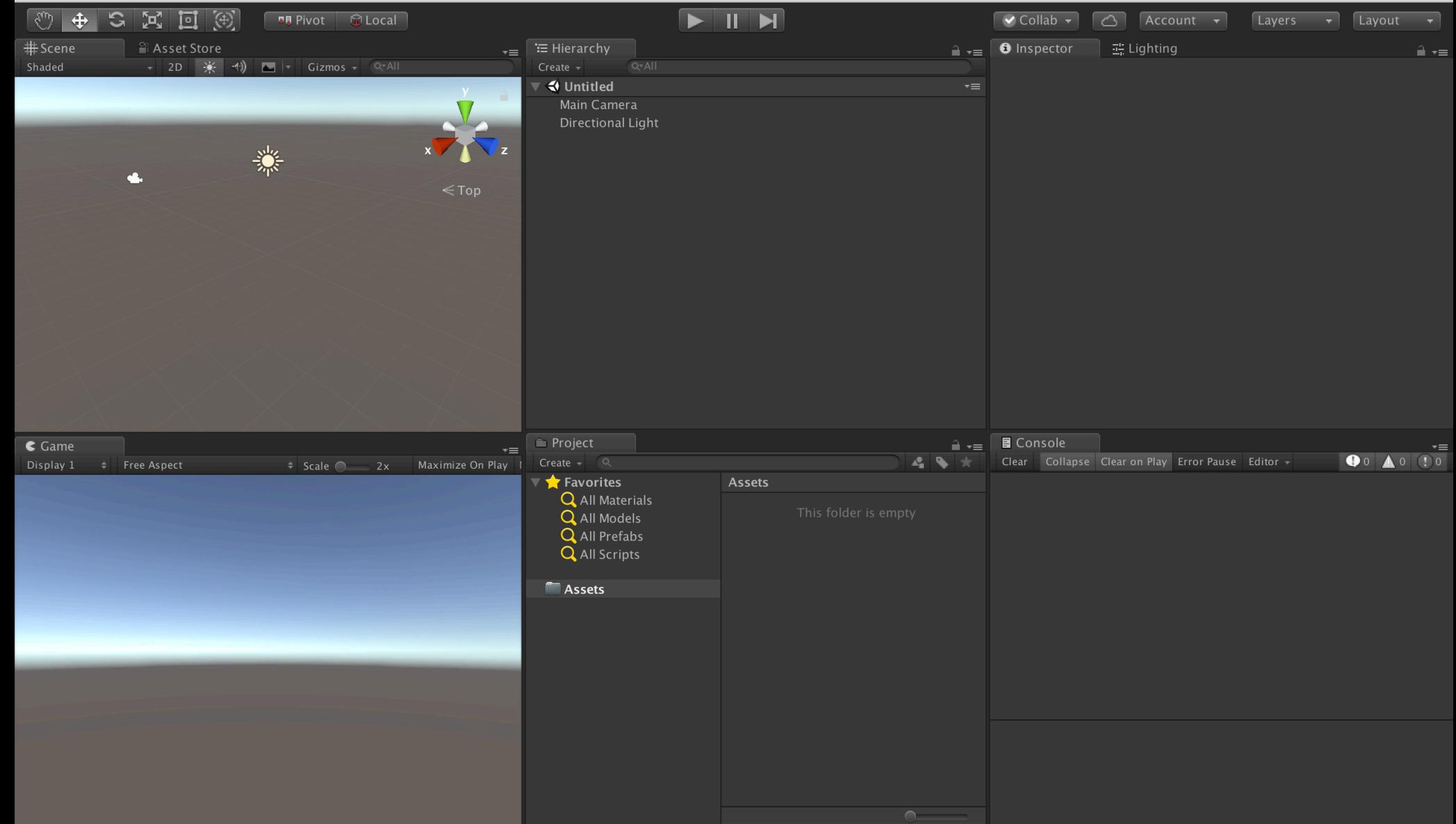
Find Relationships

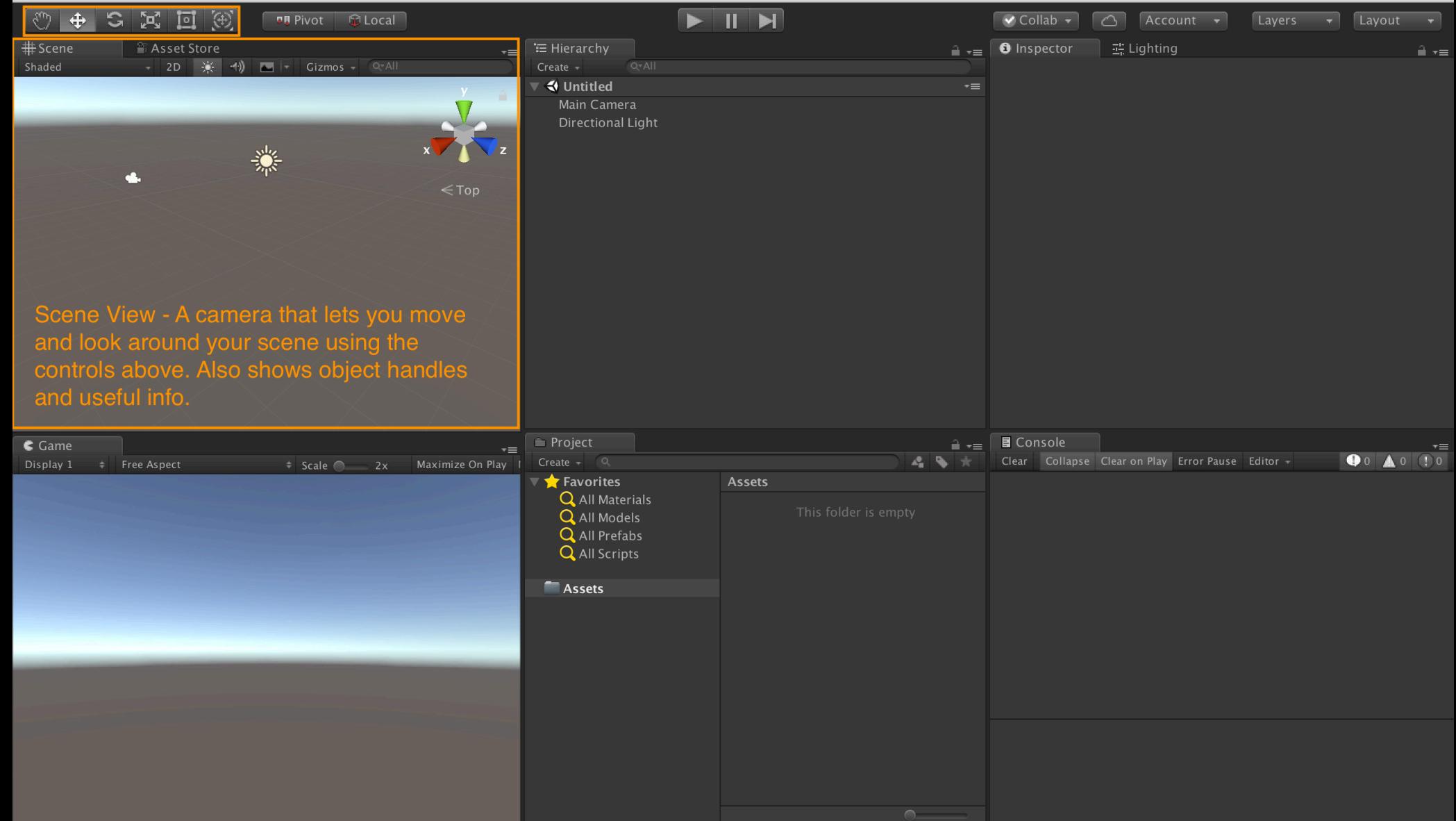


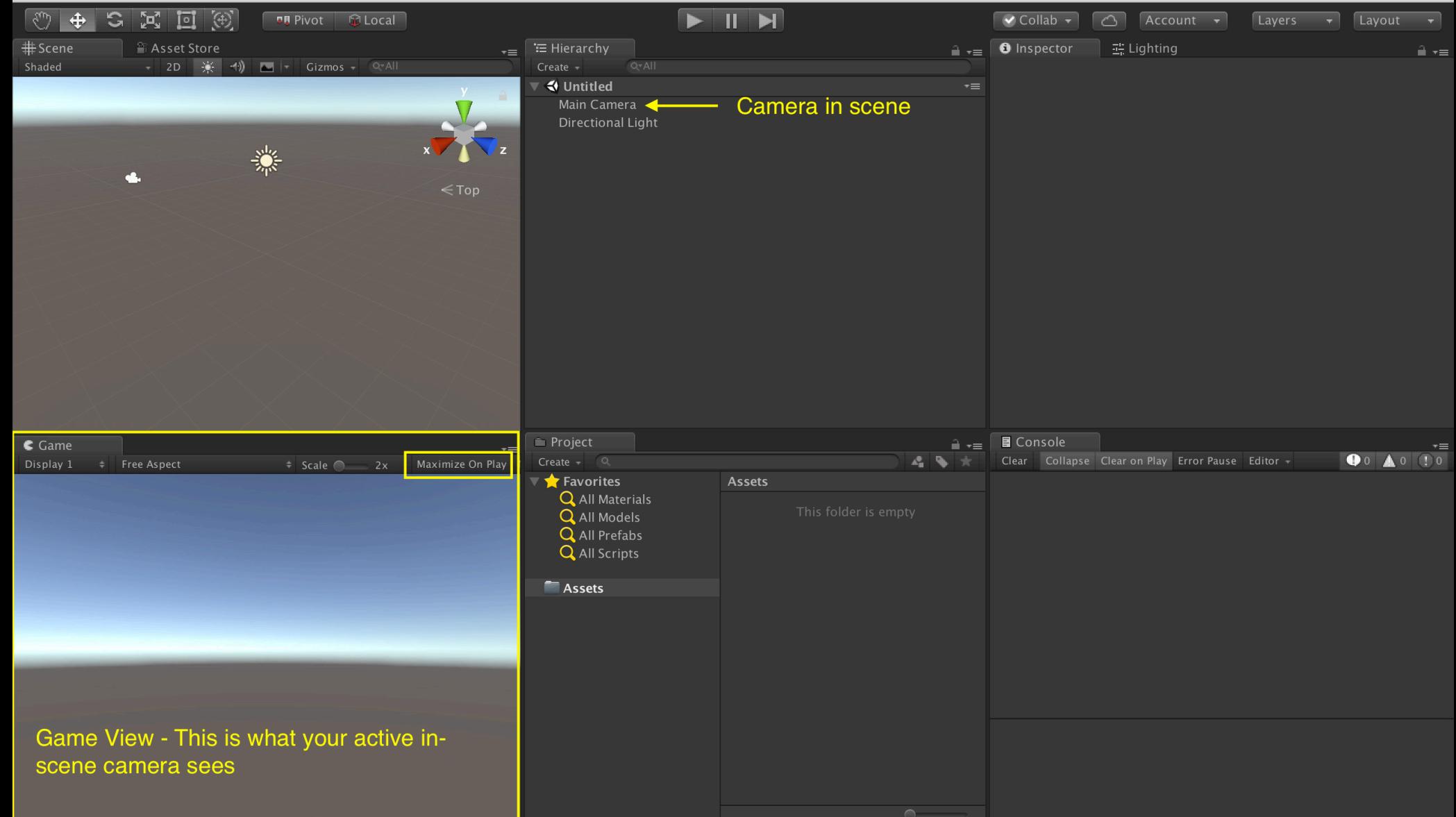


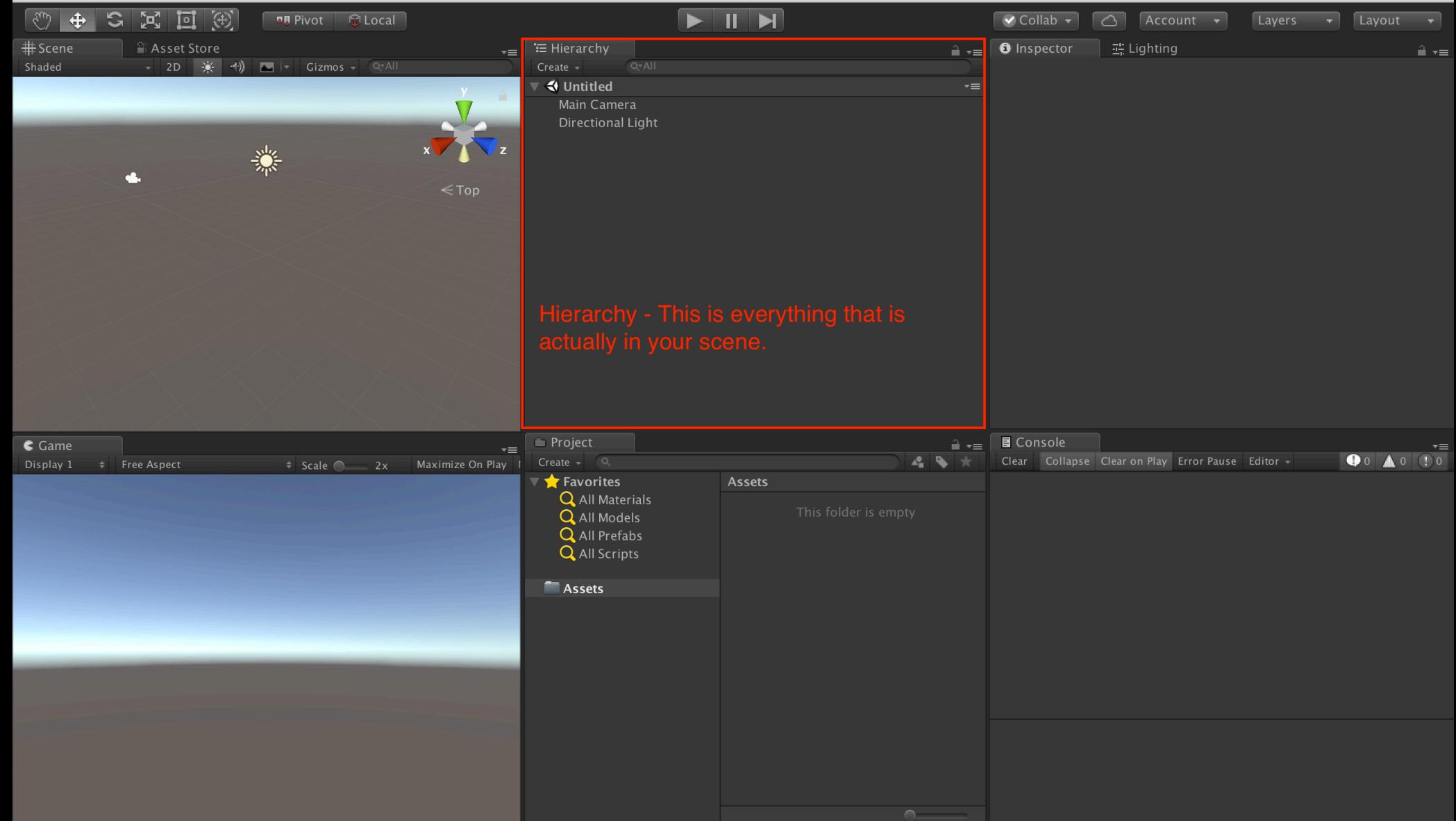
unity

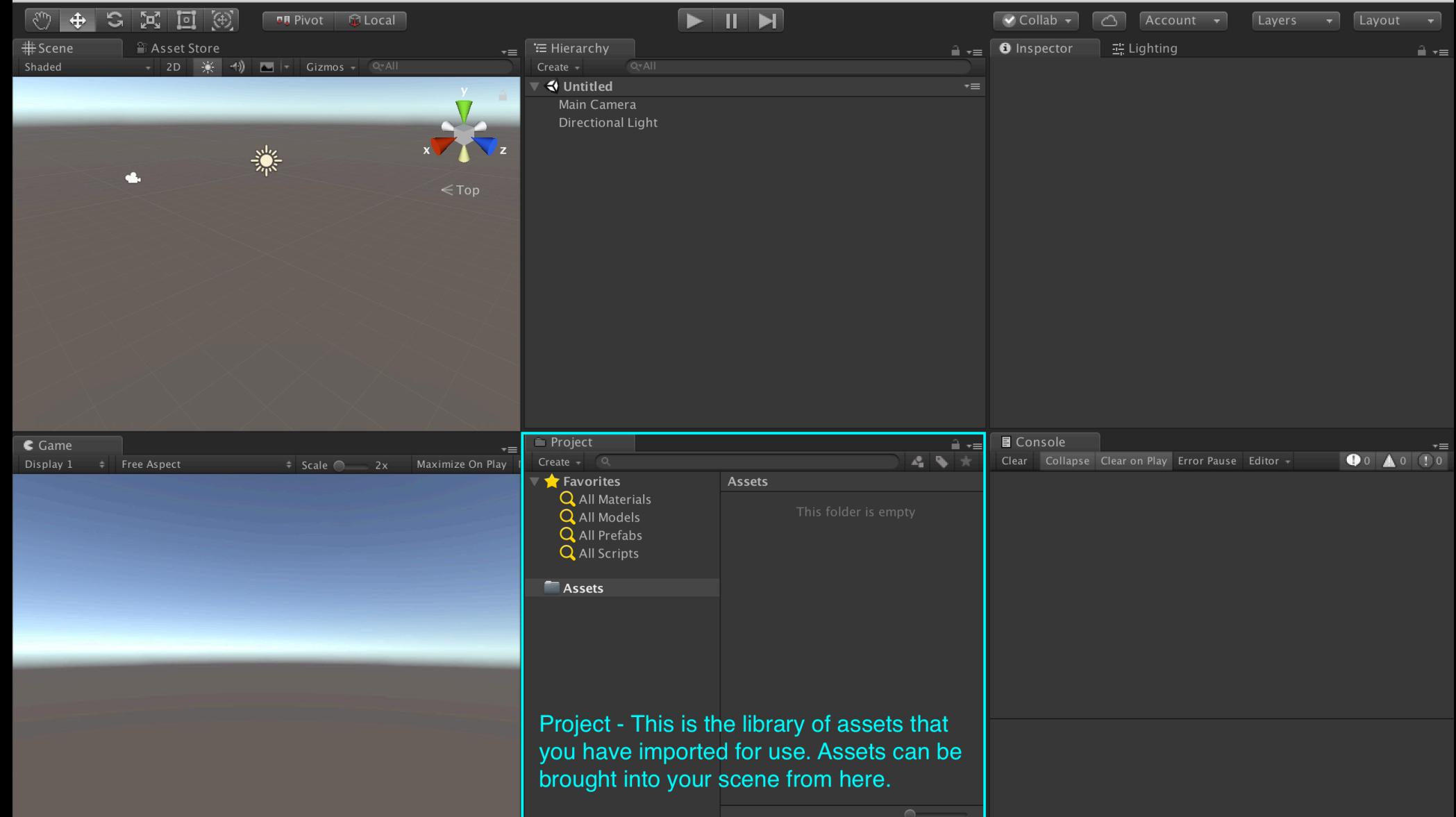


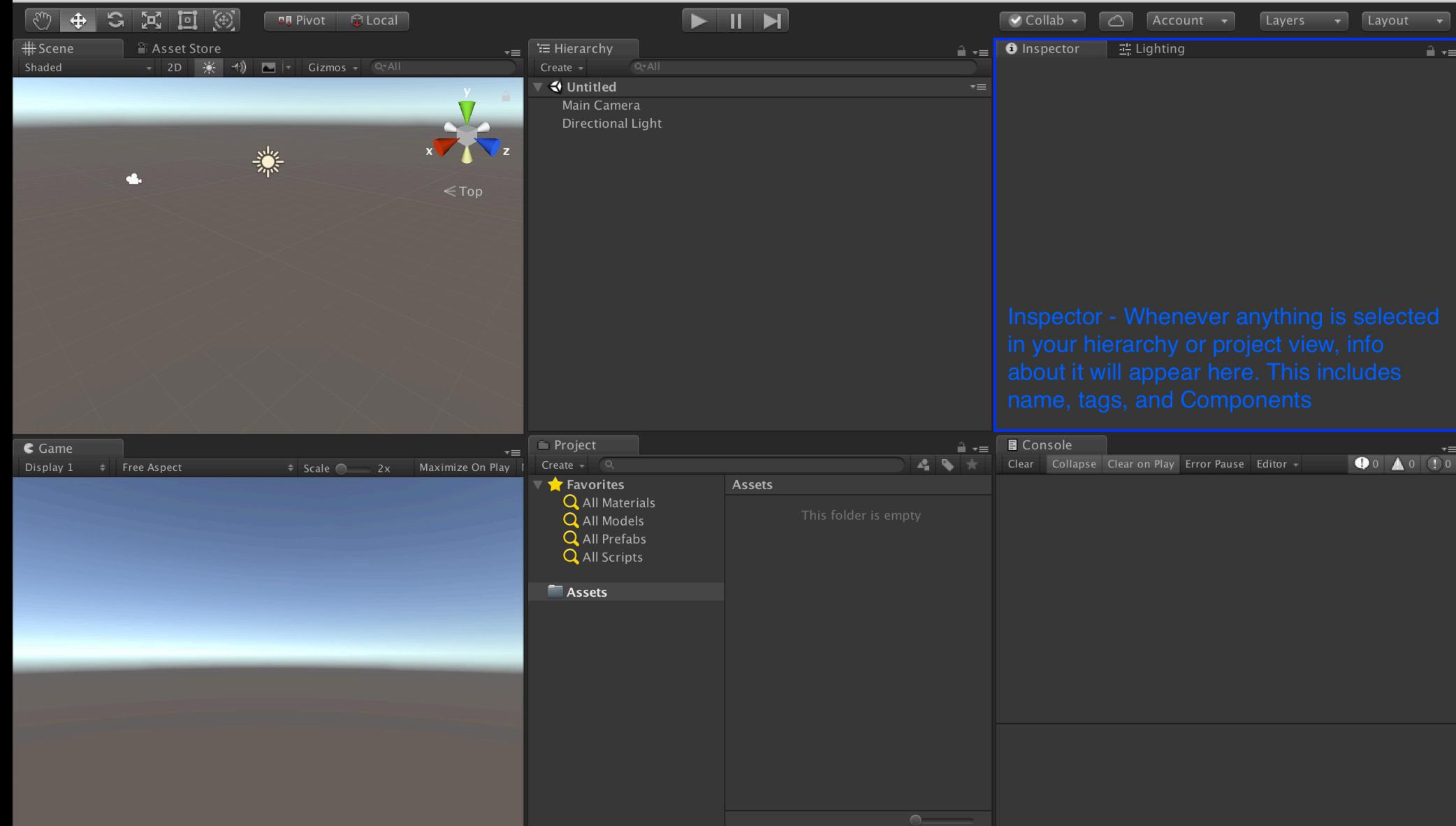




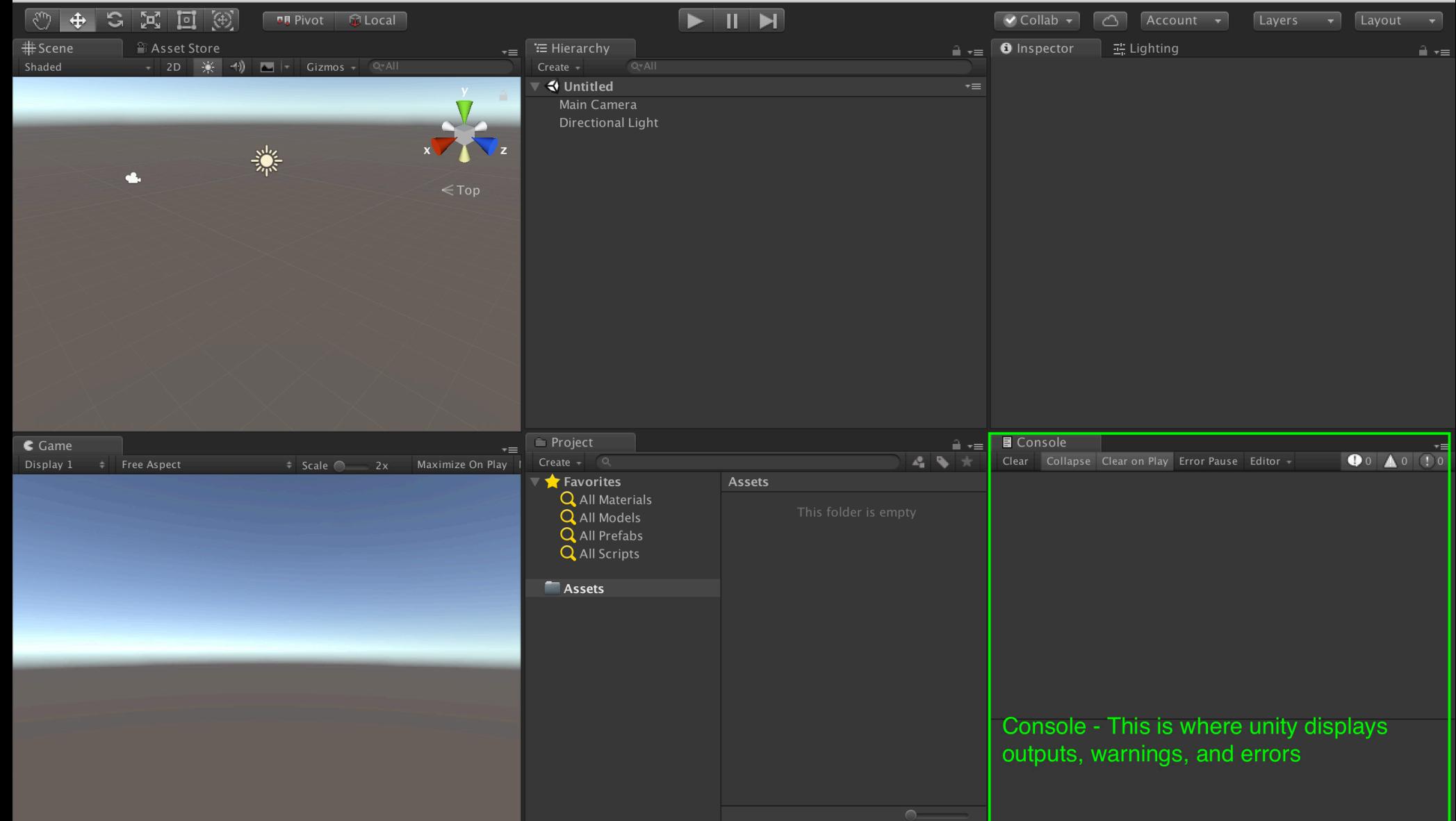




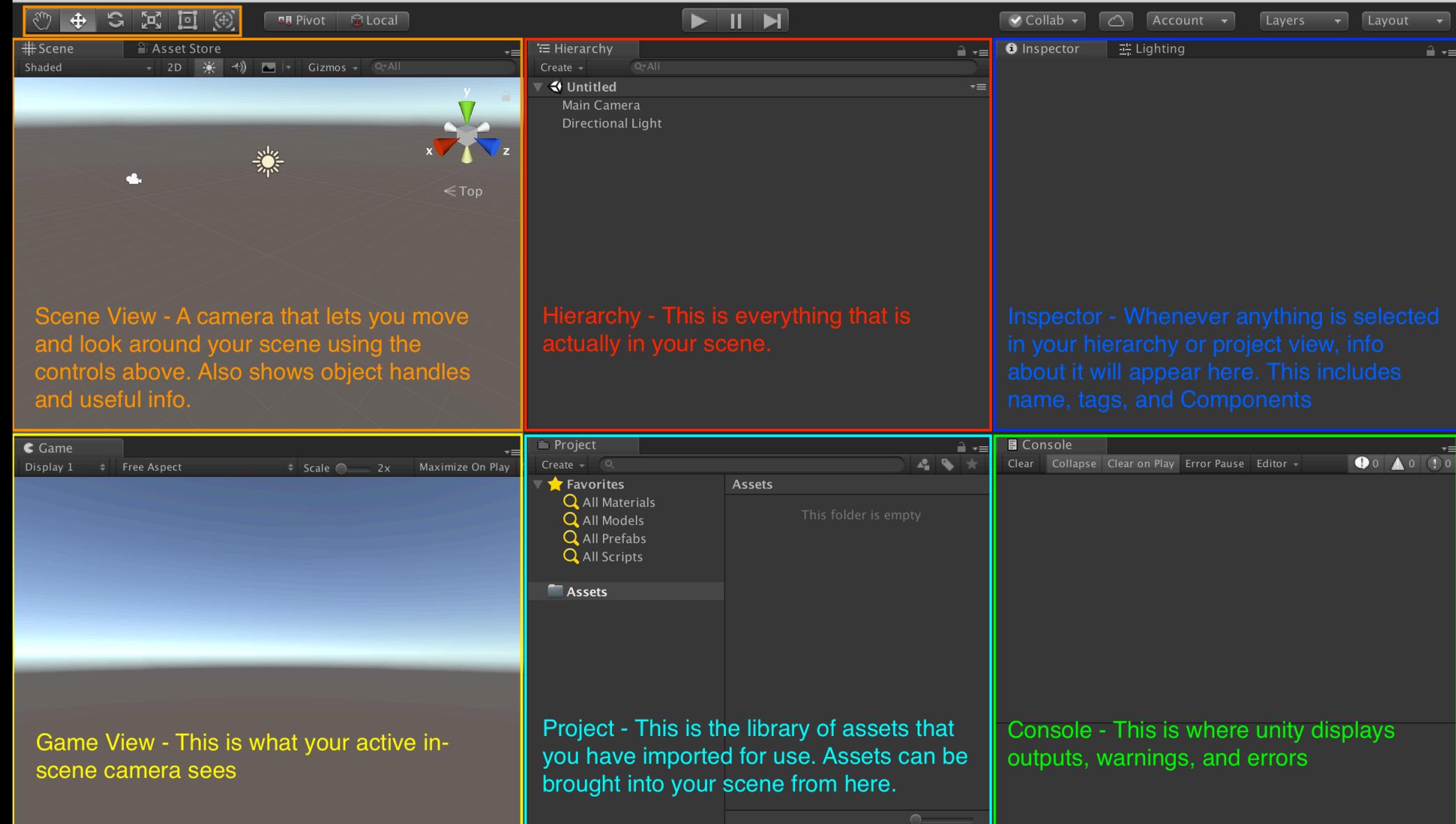


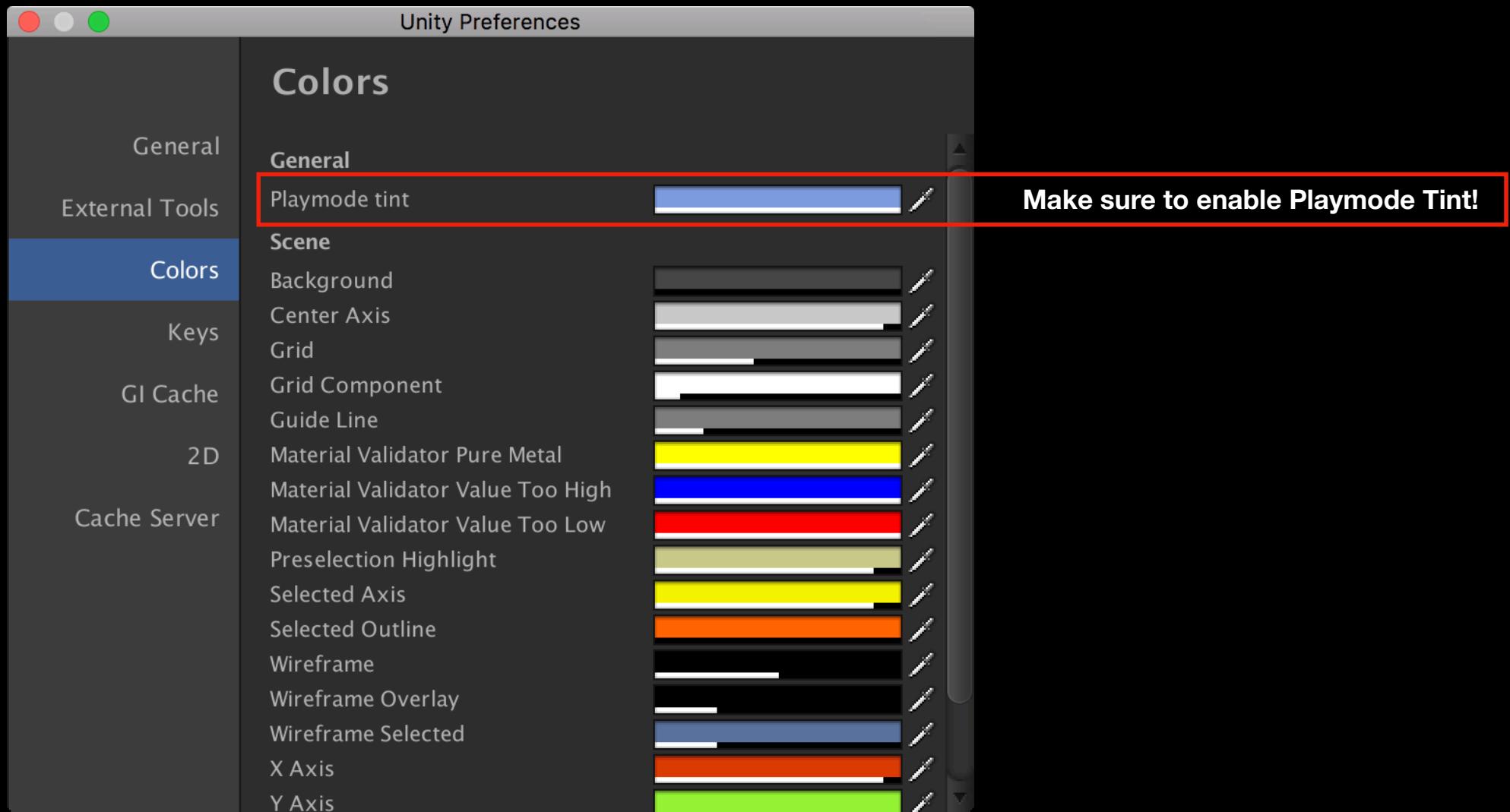


Inspector - Whenever anything is selected in your hierarchy or project view, info about it will appear here. This includes name, tags, and Components



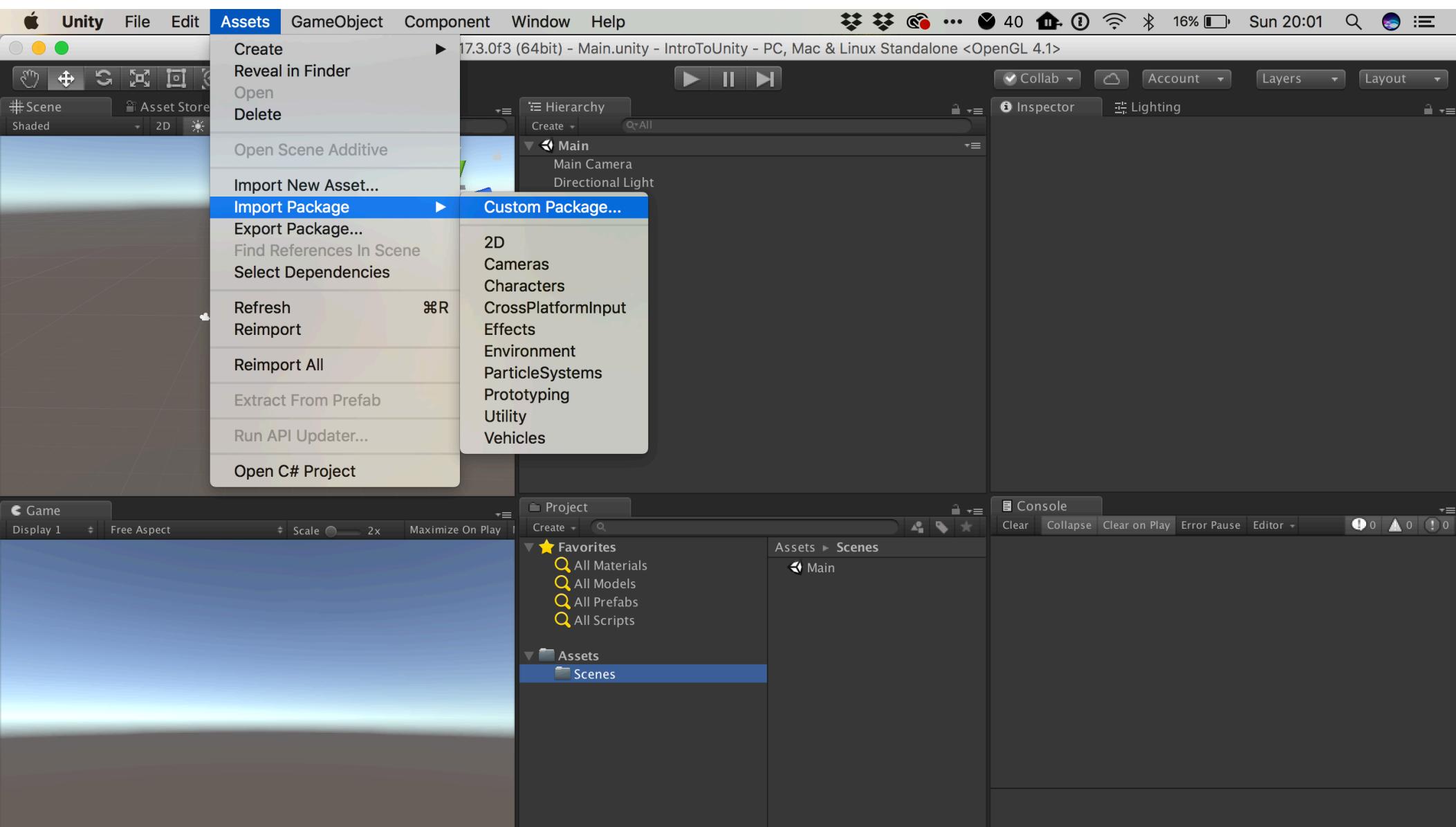
Console - This is where unity displays outputs, warnings, and errors

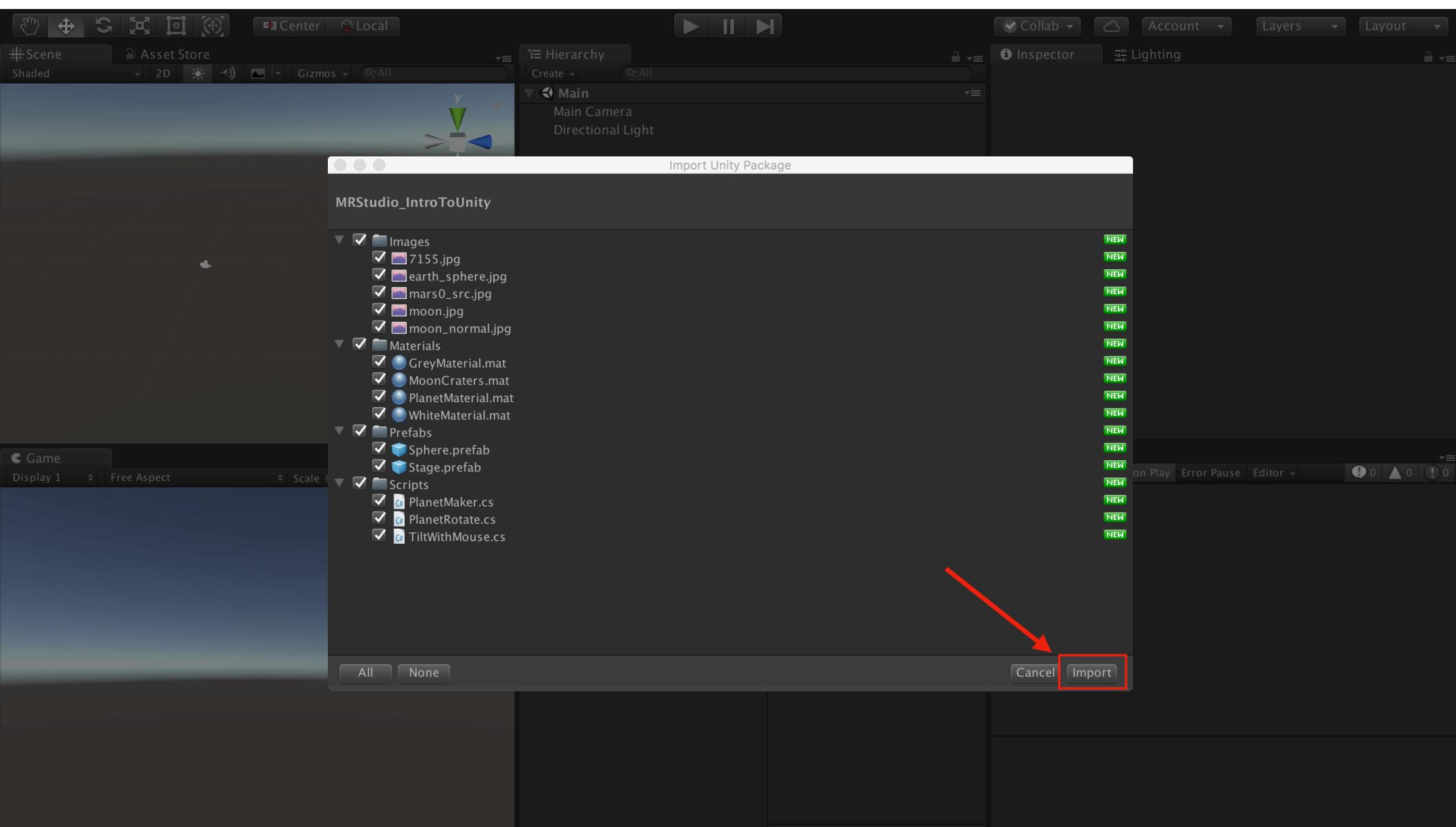


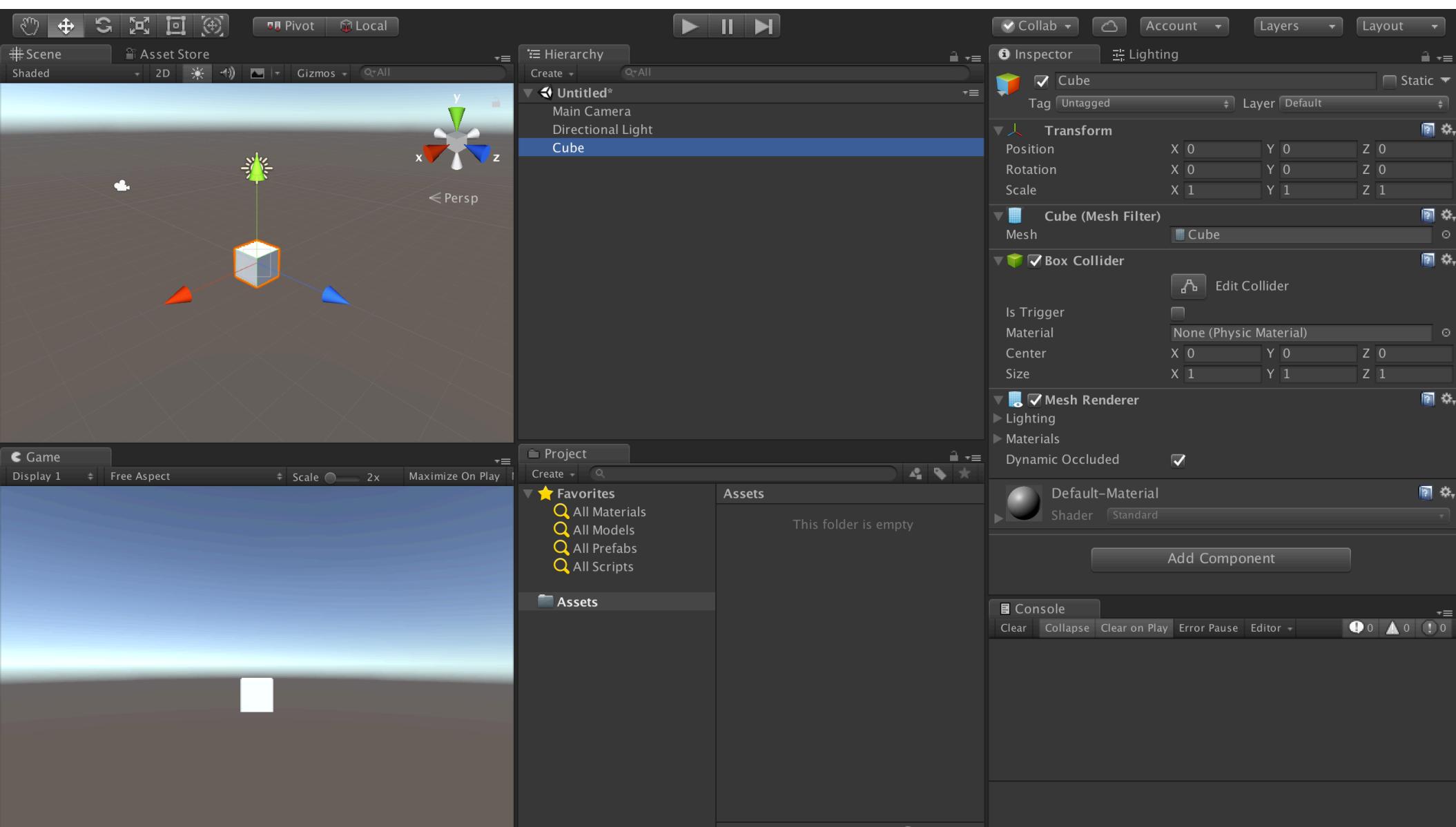


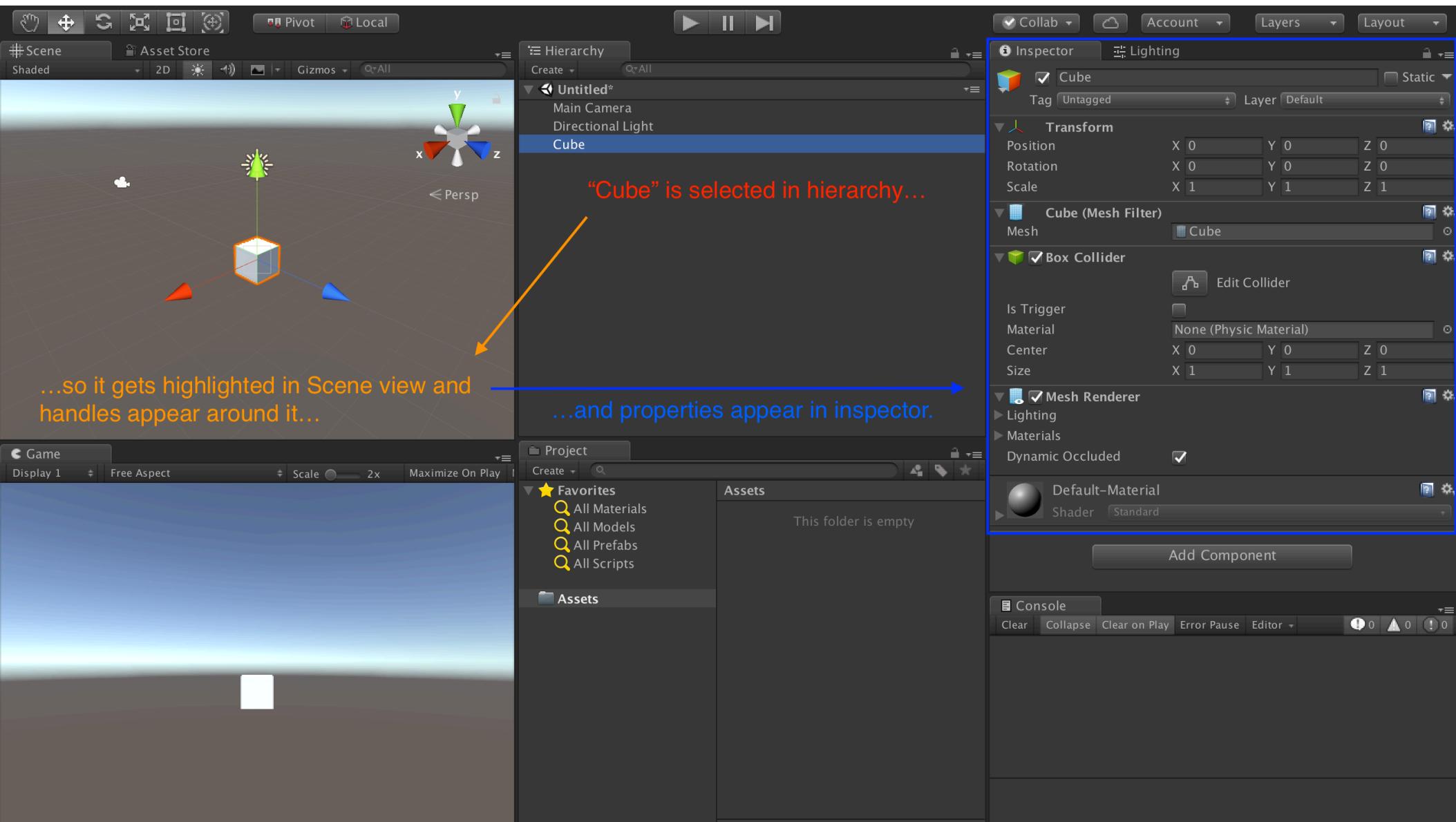
goo.gl/Jb5wCB

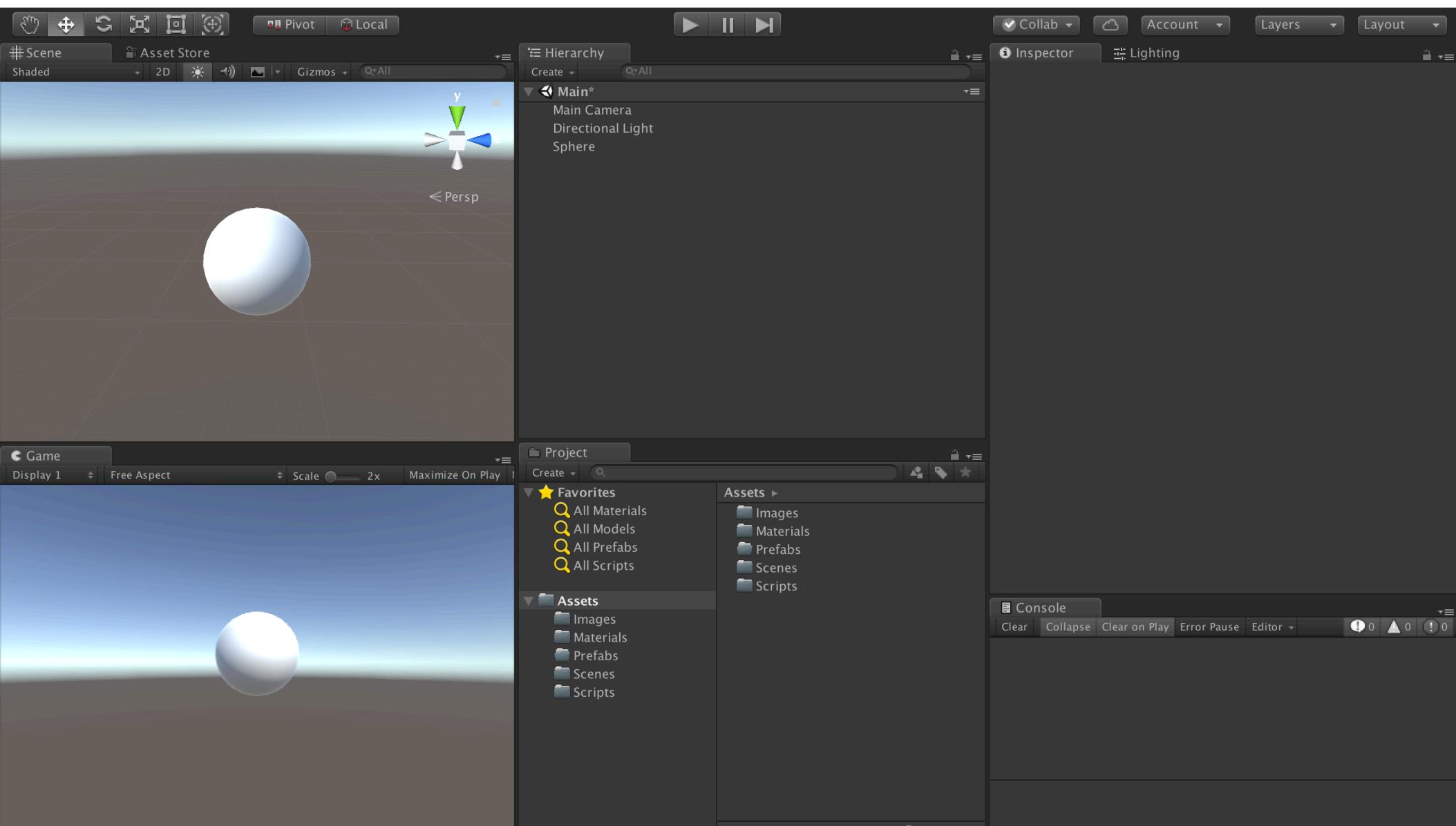
(case sensitive!)

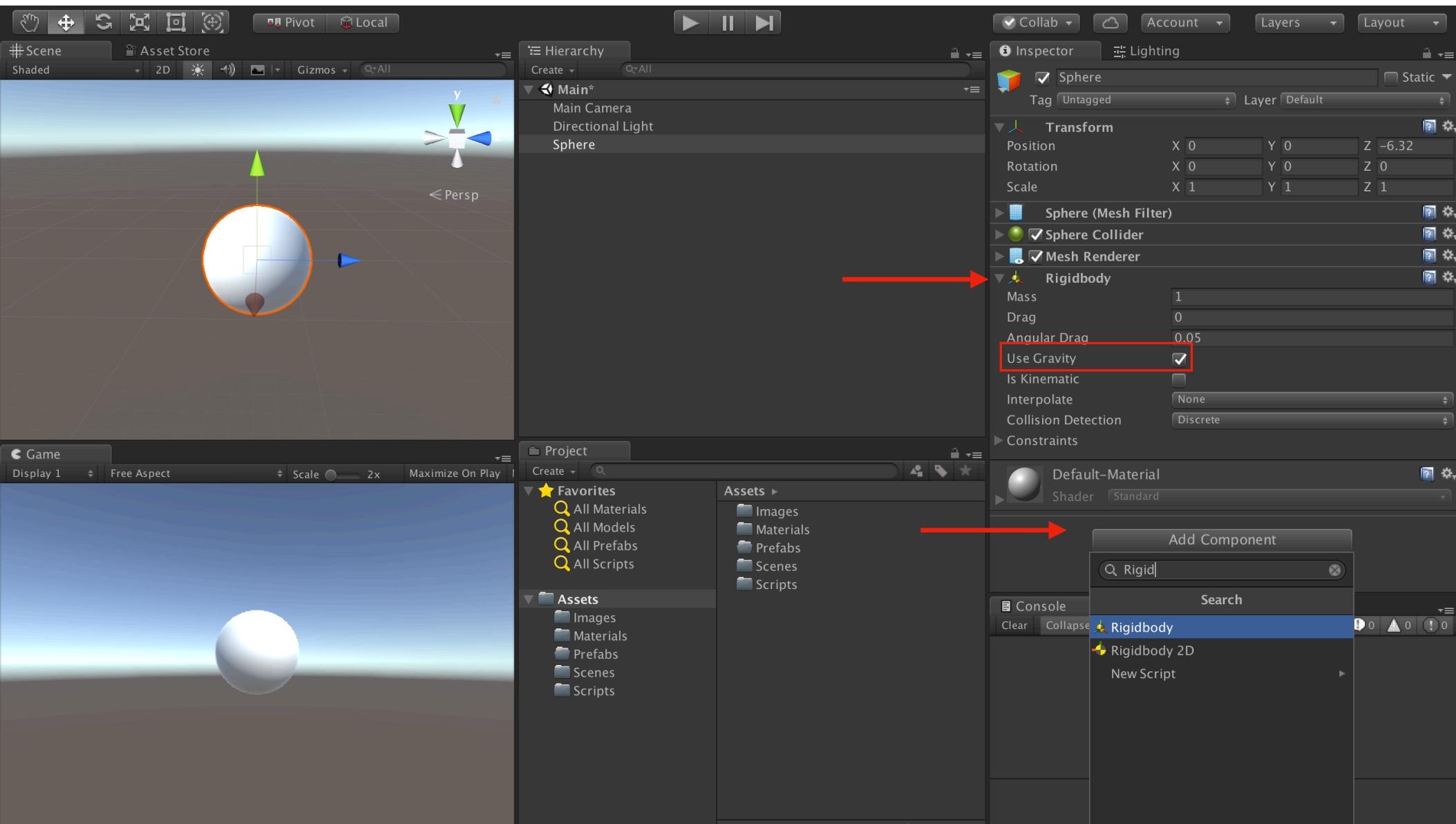


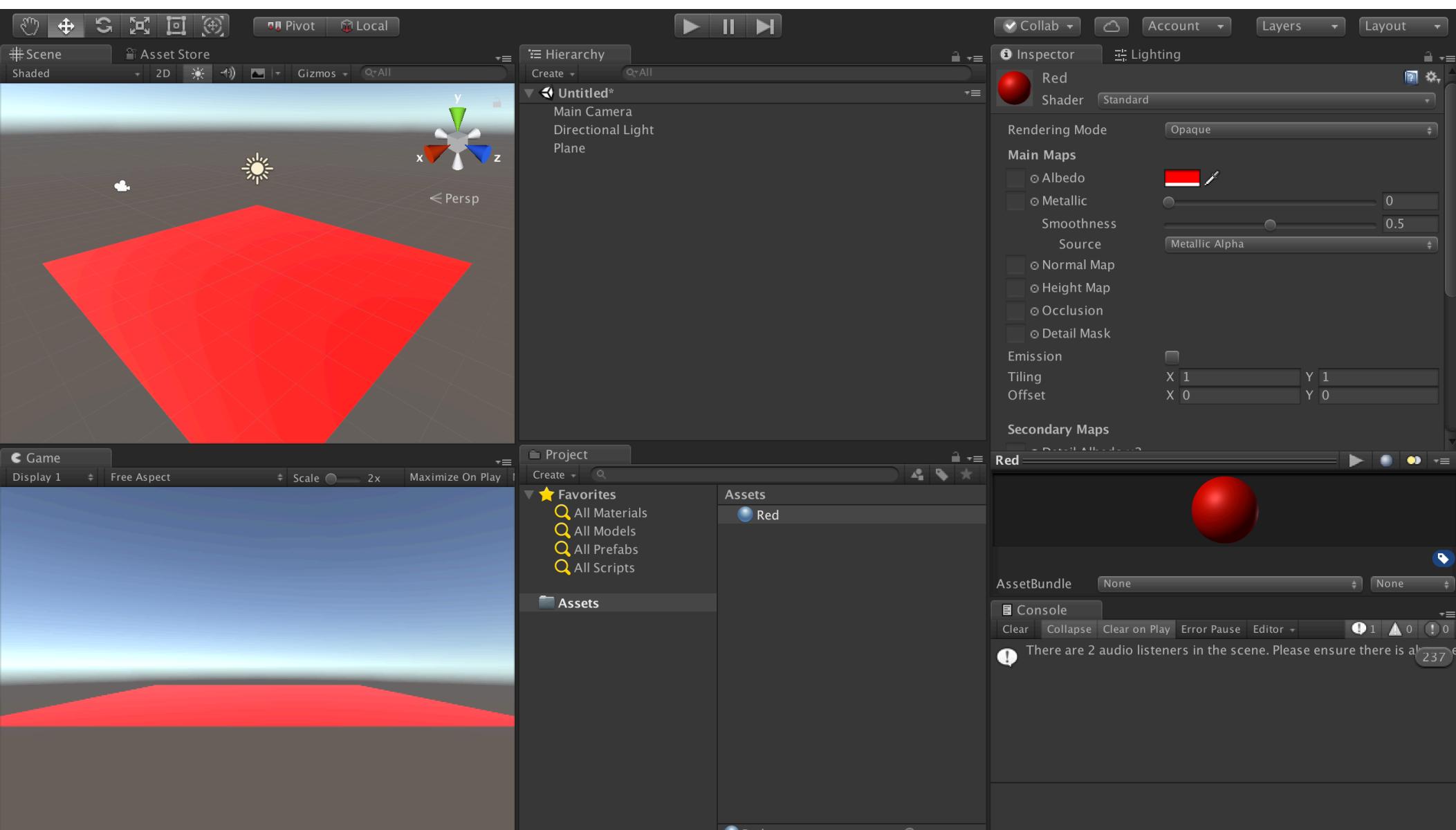


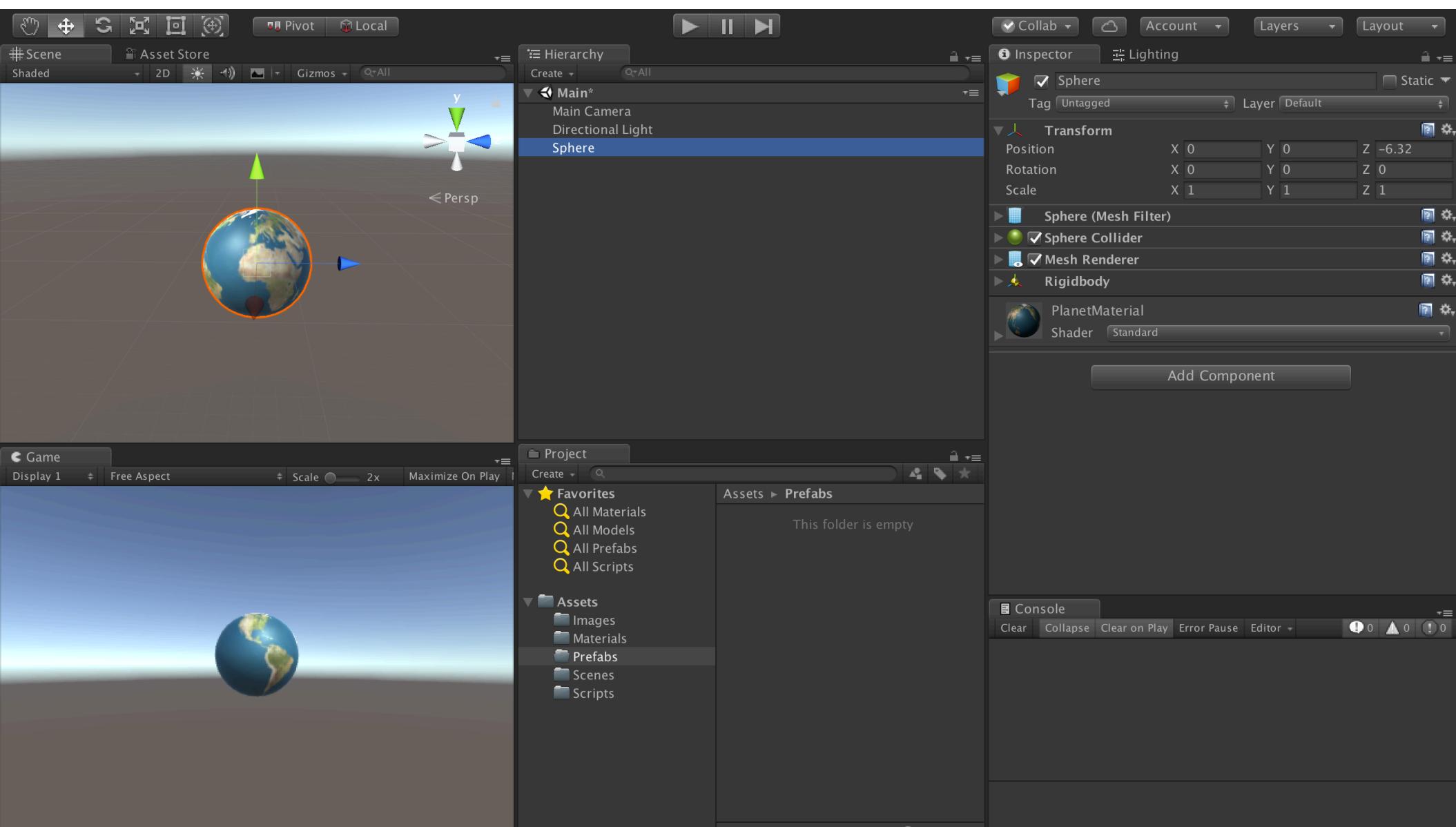


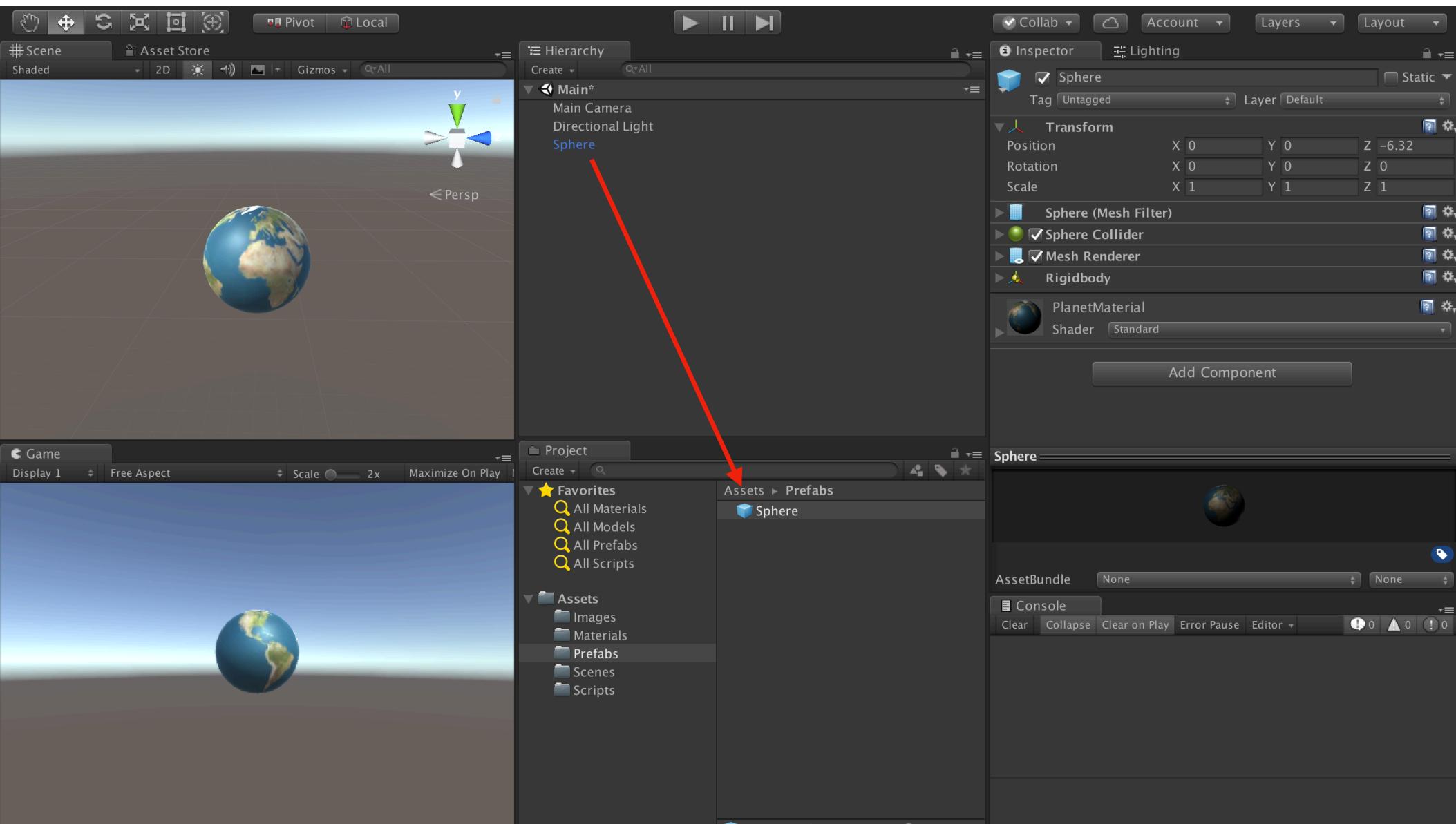


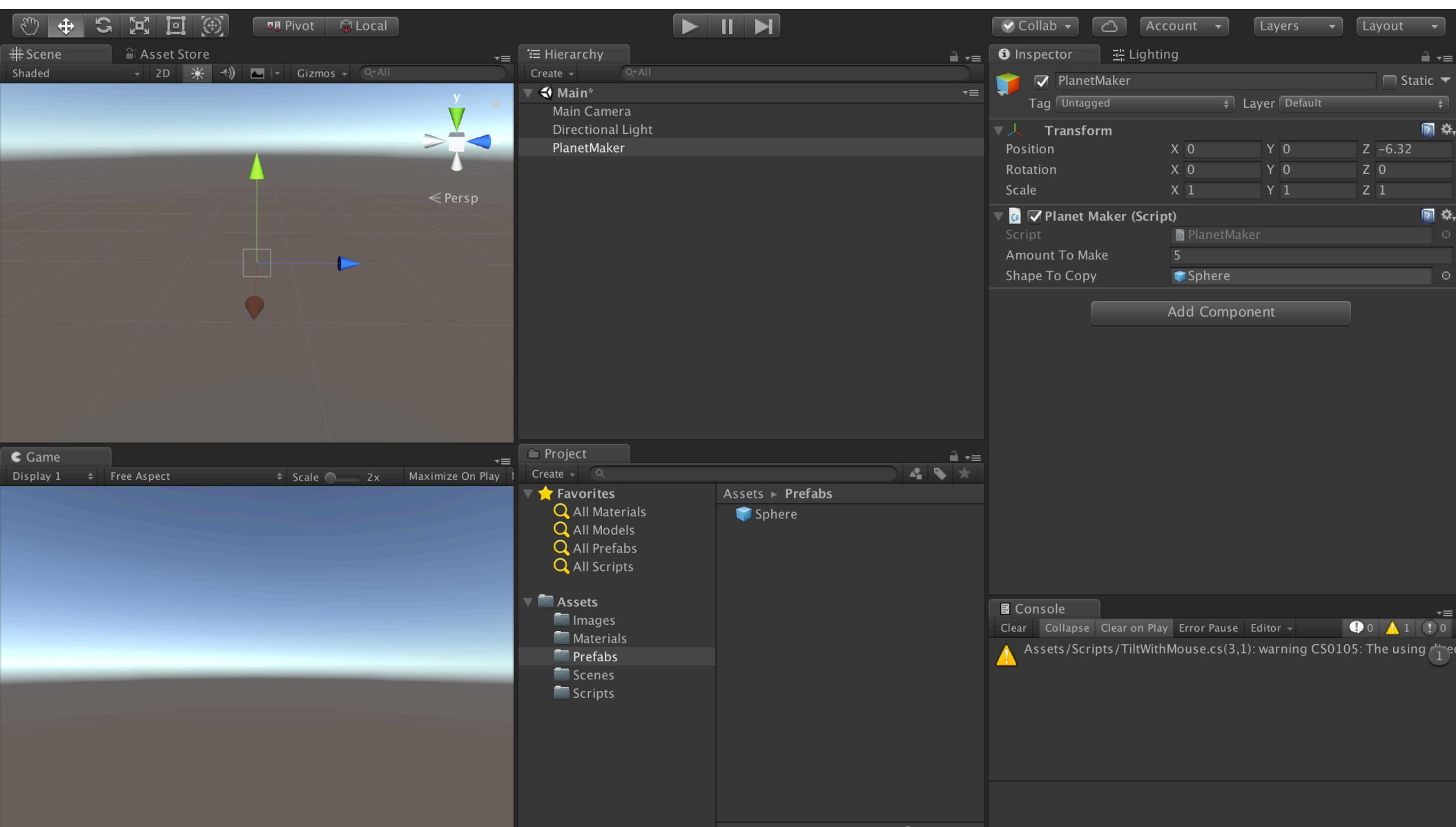












The image shows the Unity Asset Store interface. At the top, there's a toolbar with various icons like Pivot, Local, Collab, Account, Layers, and Layout. Below the toolbar is a header bar with a search field, a notifications icon (5), and user information (Language: English, luxloop). The main content area features a large banner with the text "Create your first game" and a "Start creating" button. Below the banner, a text box explains that users can learn game development essentials through Unity Game Dev Courses, which include the "Swords and Shovels" game. There are navigation dots at the bottom of the banner. To the right of the banner is a sidebar with a "Filters" dropdown and a list of categories: Home, 3D Models, Animation, Audio, Complete Projects, Editor Extensions, Particle Systems, Scripting, Services, Shaders, Textures & Materials, and Unity Essentials. Further down is a "NEW" section with a black background. On the left side, there are four promotional cards: "Global Game Jam 2018" (Check it out), "Quickly prototype a 3rd Person Game", "Top Paid Packages", and "Top Free Packages".

Asset Store

Pivot Local Collab Account Layers Layout

5 Language:English luxloop

Search...

Create your first game

Start creating

Learn all the essentials of game development with Unity Game Dev Courses. We've created these courses with one of the world's leading technology learning companies to give you everything you need to build an amazing game in Unity. When complete, you will have built the **Swords and Shovels** game!

Global Game Jam 2018

Check it out

Quickly prototype a 3rd Person Game

Top Paid Packages

Top Free Packages

Filters

- Home
- 3D Models
- Animation
- Audio
- Complete Projects
- Editor Extensions
- Particle Systems
- Scripting
- Services
- Shaders
- Textures & Materials
- Unity Essentials

NEW

Top Paid

1. Dynamic Bone Scripting/Animation

2. Muscle Animation Editor Editor Extensions/Anim...

3. Animal pack deluxe

Asset Store

Pivot Local

Collab Account Layers Layout

Language: English luxloop

**Standard Assets**

**Assets**

**Filters**

**MAXIMUM PRICE** \$

FREE 5 10 20 50 100 200 ∞

**FREE ONLY** **PAID ONLY**

**MINIMUM RATING** ★★★★★

**SUPPORTED UNITY VERSION** < 2017.3.0 e.g. 5.2.0

**PACKAGES ONLY** **LISTS ONLY**

**MAXIMUM SIZE** MB

1MB 5MB 50MB 100MB 250MB 500MB 1GB 4GB

**RELEASED** days ago

1d 7d 14d 1m 3m 6m 1y 5y

**UPDATED** days ago

1d 7d 14d 1m 3m 6m 1y 5y

**SORT BY** RELEVANCE / POPULARITY / NAME / PRICE / RATING / UPDATED

1 2 3 4 5 6 7 8 9 10 Next Last 1 - 36 of 1630

 Standard Assets Unity Essentials/A... Unity Technologies ★★★★★ (1317) FREE	 Standard Assets f... Unity Essentials/A... Unity Technologies ★★★★★ (1246) FREE	 Assets_Kitchenroom 3D Models/Enviro... Argyle Co.,Ltd Not enough ratings \$18.00
 Assets_classroom 3D Models/Enviro... Argyle Co.,Ltd Not enough ratings \$24.00	 Standard Scooter 3D Models/Vehicel... Virtualware ★★★ (3) \$2.00	 Assets_School_Ha... 3D Models/Enviro... Argyle Co.,Ltd Not enough ratings \$10.00
 Affordable Assets... 3D Models/Props/... Creation Wasteland Not enough ratings \$5.99	 Grab Yer Assets Editor Extensions/... Xeir ★★★★★ (71) \$49.00	 Graveyard Assets ... 3D Models/Enviro... Kittens and Elves ... Not enough ratings \$5.00
<b>WORLD CREATOR</b> World Creator Sta...		
<b>Color Mask Stand...</b>		
10+1 Standard M...		

**Home**

- 3D Models
- Animation
- Audio
- Complete Projects
- Editor Extensions
- Particle Systems
- Scripting
- Services
- Shaders
- Textures & Materials
- Unity Essentials

**NEW**

**Top Paid**



1. Dynamic Bone  
Scripting/Animation
2. Muscle Animation Editor  
Editor Extensions/Anim...
3. Animal pack deluxe

Asset Store

Pivot Local

Collab Account Layers Layout

Language: English luxloop

**Standard Assets**

Unity Essentials/Asset Packs

Unity Technologies

★★★★★ (13137)

**FREE**

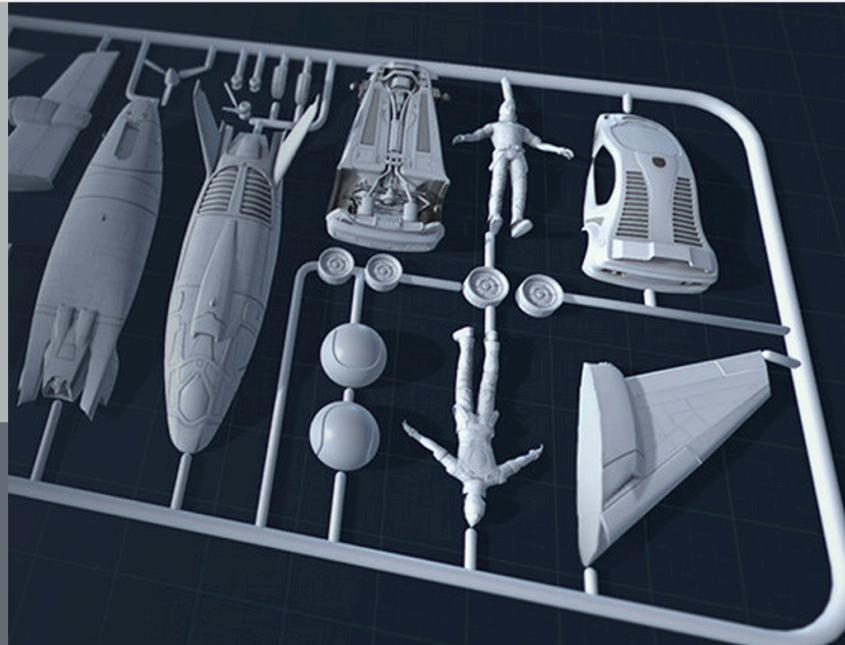
Update  



This collection of assets, scripts, and example scenes can be used to kickstart your Unity learning or be used as the basis for your own projects.

The package includes:

First Person Character Controller  
Third Person Character Controller  
Car Controller



Version: 1.1.4 (Jan 03, 2018) Size: 191.8 MB

Originally released: 16 March 2015

Package has been submitted using Unity 5.0.0, 5.1.4, 5.2.4, 5.3.1, 5.4.2, 5.5.0, 5.6.0, 2017.1.0, and 2017.3.0 to improve compatibility within the range of these versions of Unity.

Support E-mail Support Website Visit Publisher's Website

**Filters** 

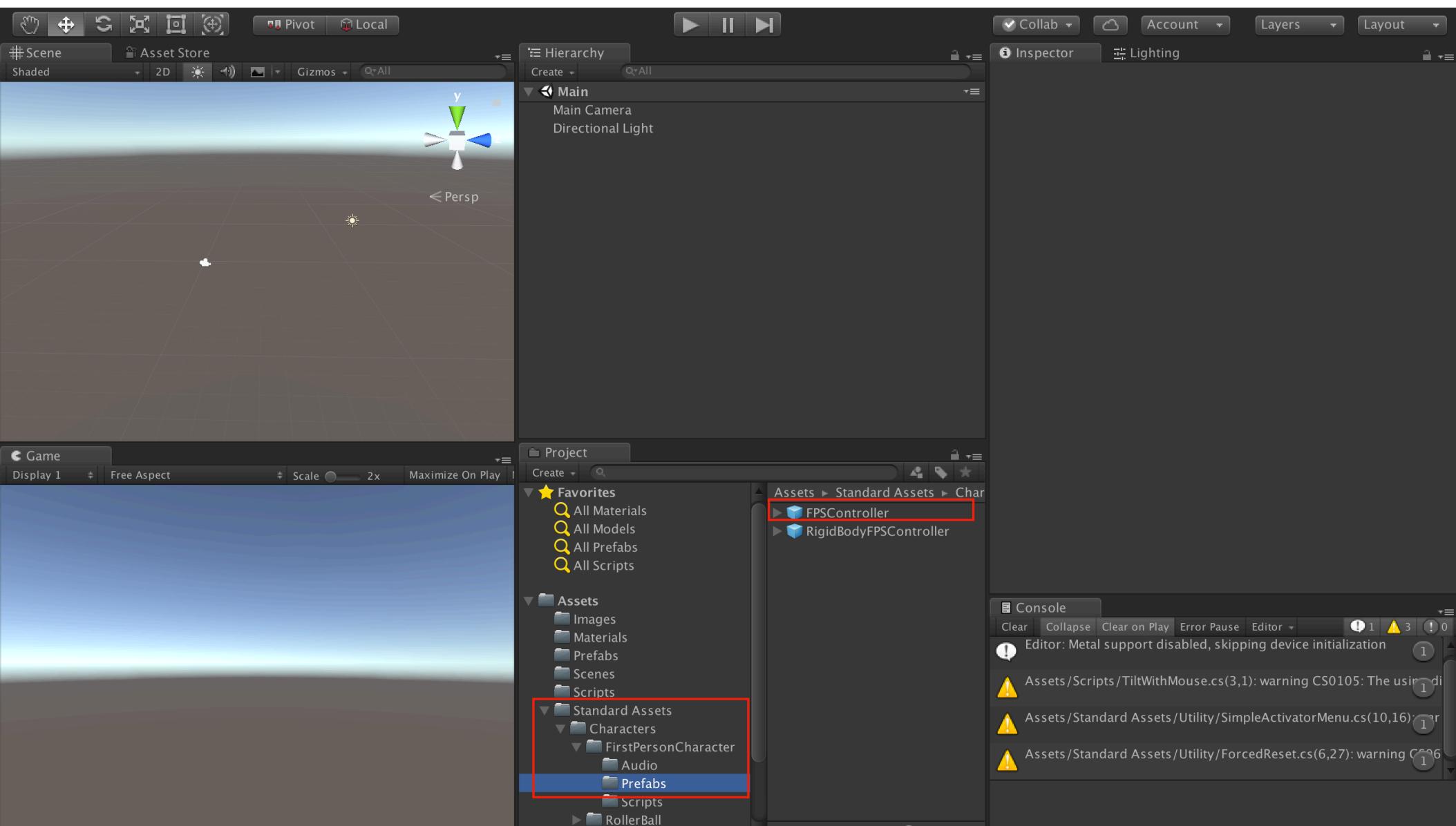
Home  
3D Models  
Animation  
Audio  
Complete Projects  
Editor Extensions  
Particle Systems  
Scripting  
Services  
Shaders  
Textures & Materials  
Unity Essentials  
Asset Packs  
Beta Content  
Certification  
Sample Projects  
Other

**NEW**

**Top Paid**

There are no packages under this category

**Top Free**



**Virtual Reality (LaValle) - Chapter 1**

<http://vr.cs.uiuc.edu/>

John Underkoffler - TED Talk and Article

<http://bit.ly/2vmZLrp>

Design For Humanity - Parts 1, 2, 3

<http://bit.ly/1T0gJ6E>



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