

Let Me Think! -Why Workflows Matter Nikoline Høgh

Nikoline Høgh

User Experience Lead at Unity



STORY

How a migraine started a career



What is a workflow How to design good workflows Why design for workflow







Software for the creative industry

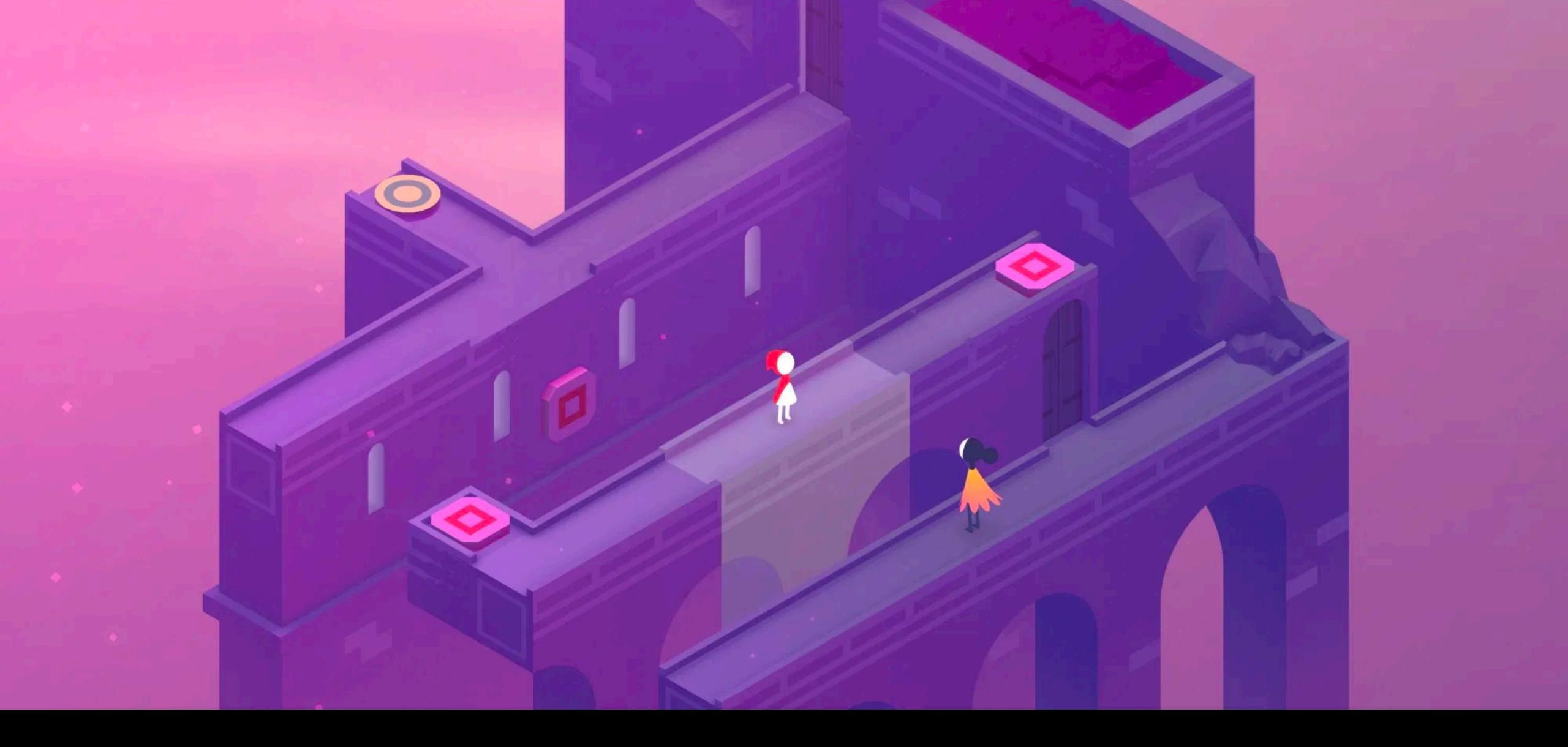








Unity brings together animation, visual art, effects, programming and sound..



Monument Valley

UsTwo Games



LEGO Playground

AR app blending digital and physical worlds of play



Volvo and Varjo

Enable safe driving with VR

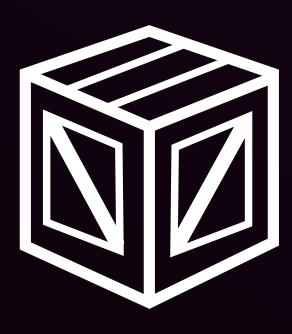


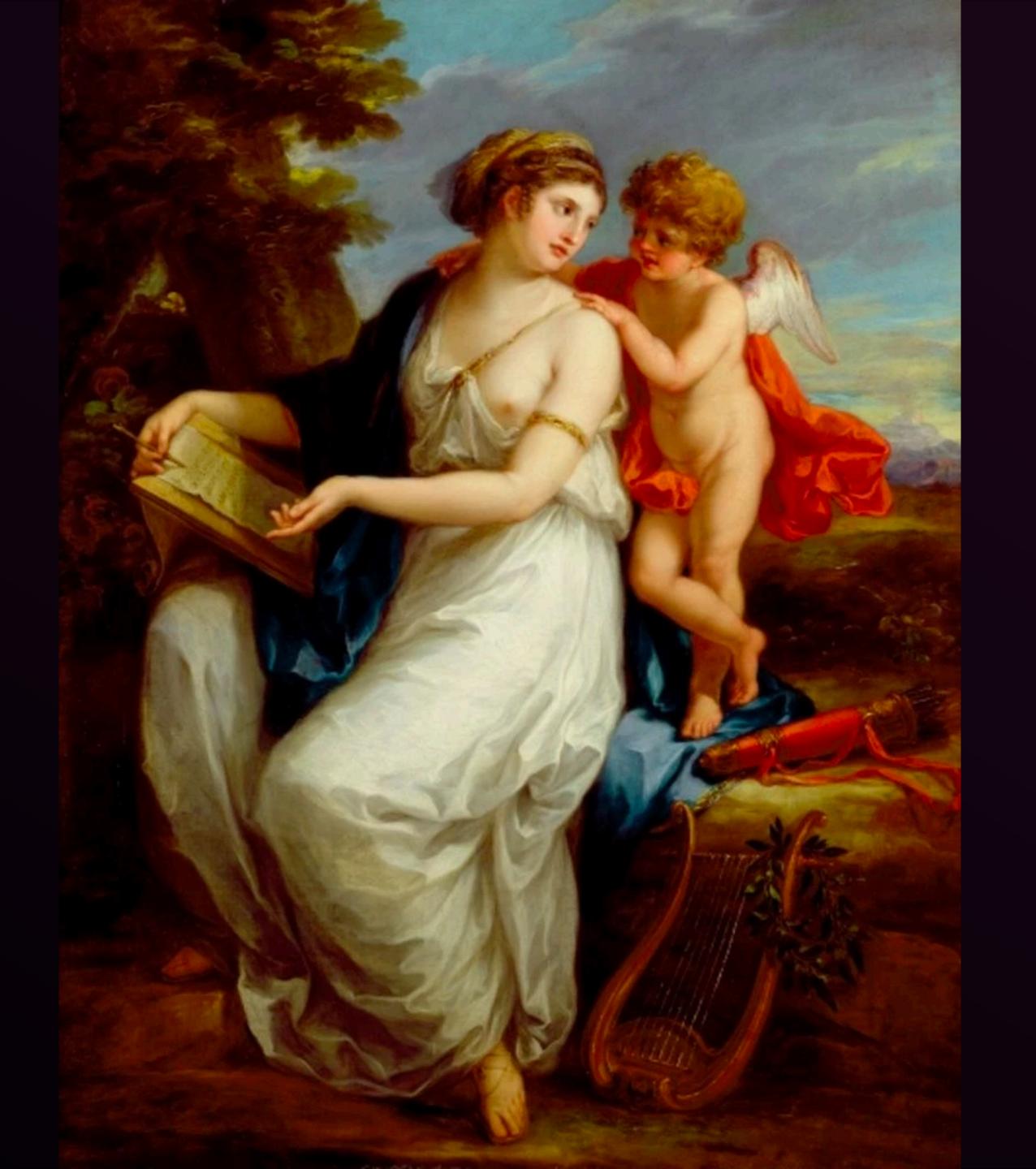
Heretic Demo

Unity Stockholm Demo Team

...powering a creative industry of makers, artists, play, expression and change

What is a creative workflow How to design for workflows Why consider workflows?





A universal human practice that you can improve over time

Experimentation



Problem-solving

Aspects of creative practice



Flow



Divergent Thinking



Iteration

n Flow

The experience of flow is to feel comfortably challenged, productive and "in the zone". You lose track of time.

Divergent Thinking

Purposefully creating multiple different solutions to a problem and comparing them, letting new ideas spring from the old.

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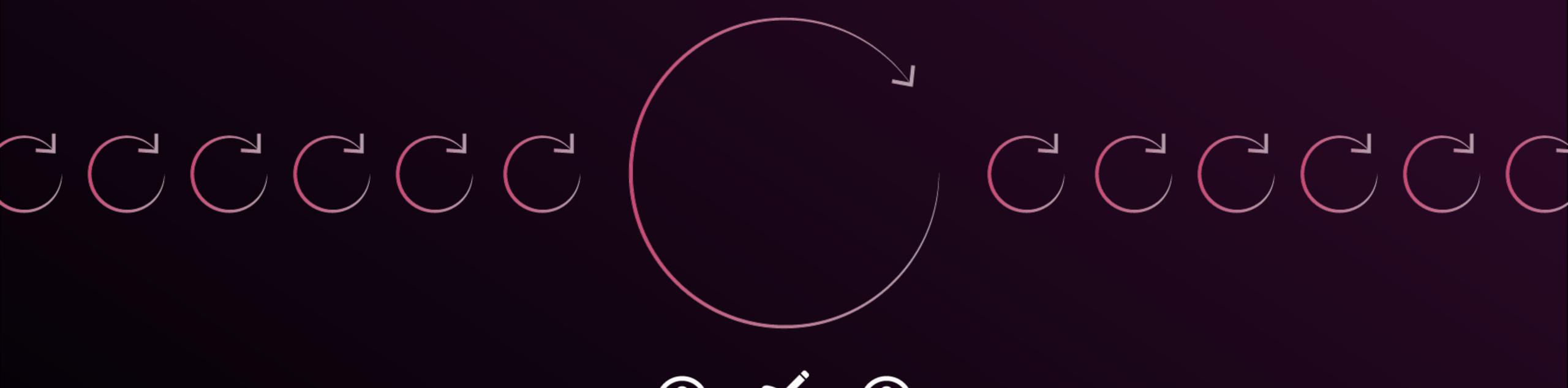
7 Iteration

Interacting with the material of your design making a series of small experiments to achieve an outcome



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Interacting with the material of your design making a series of small experiments to achieve an outcome



MOVE

SEE

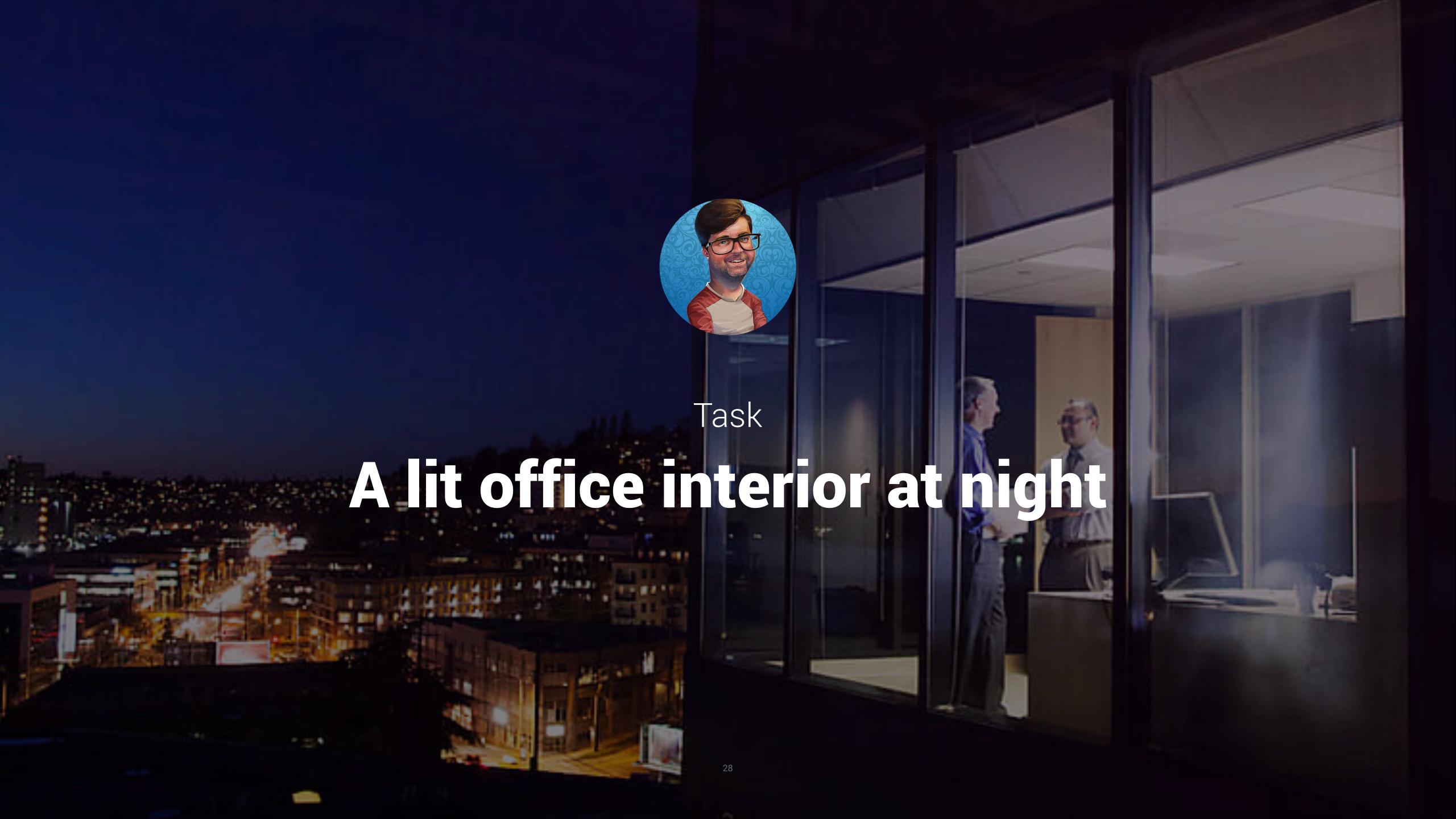
SEE

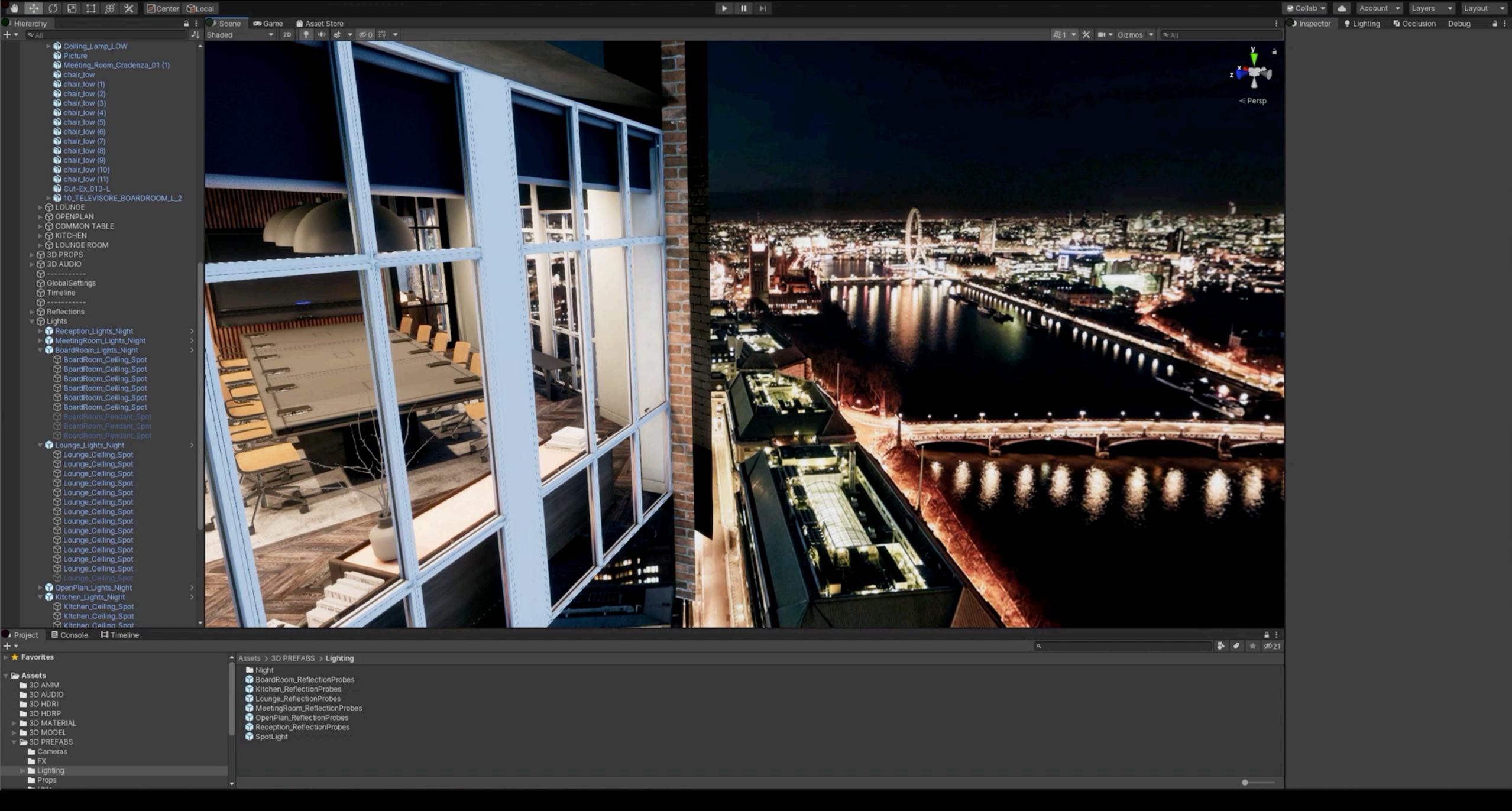
Workflow Example

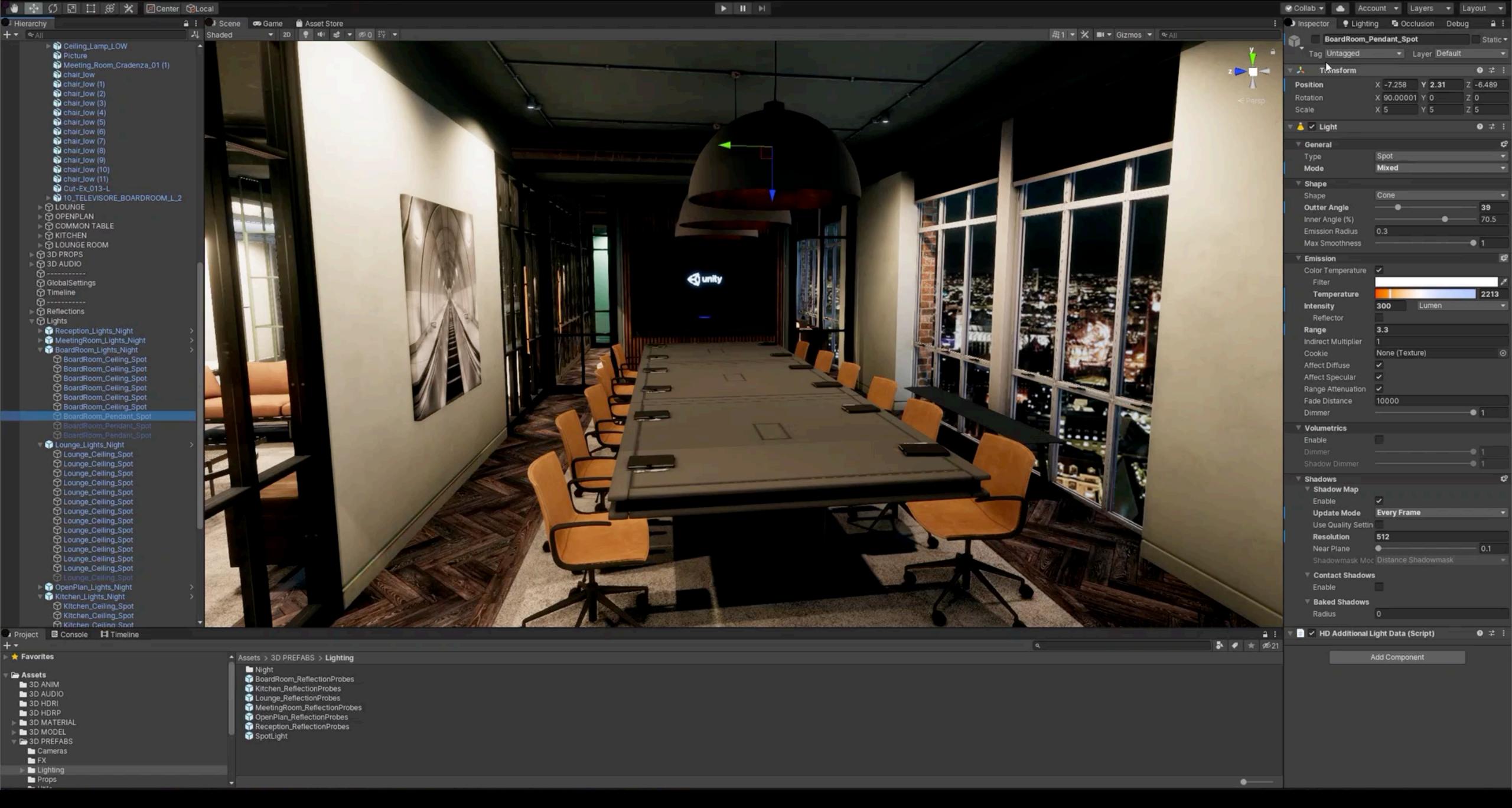


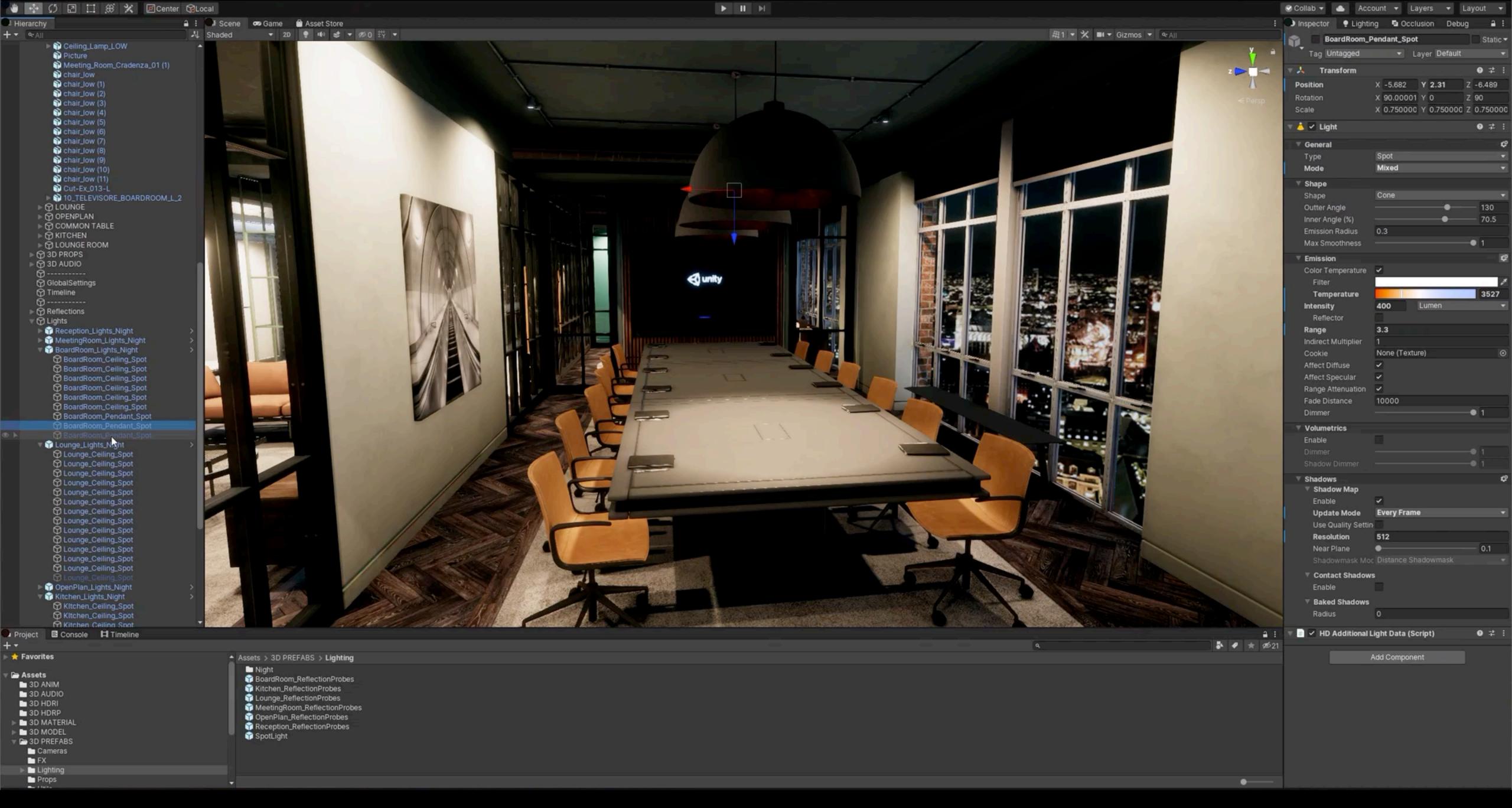


Task A lit office interior at night

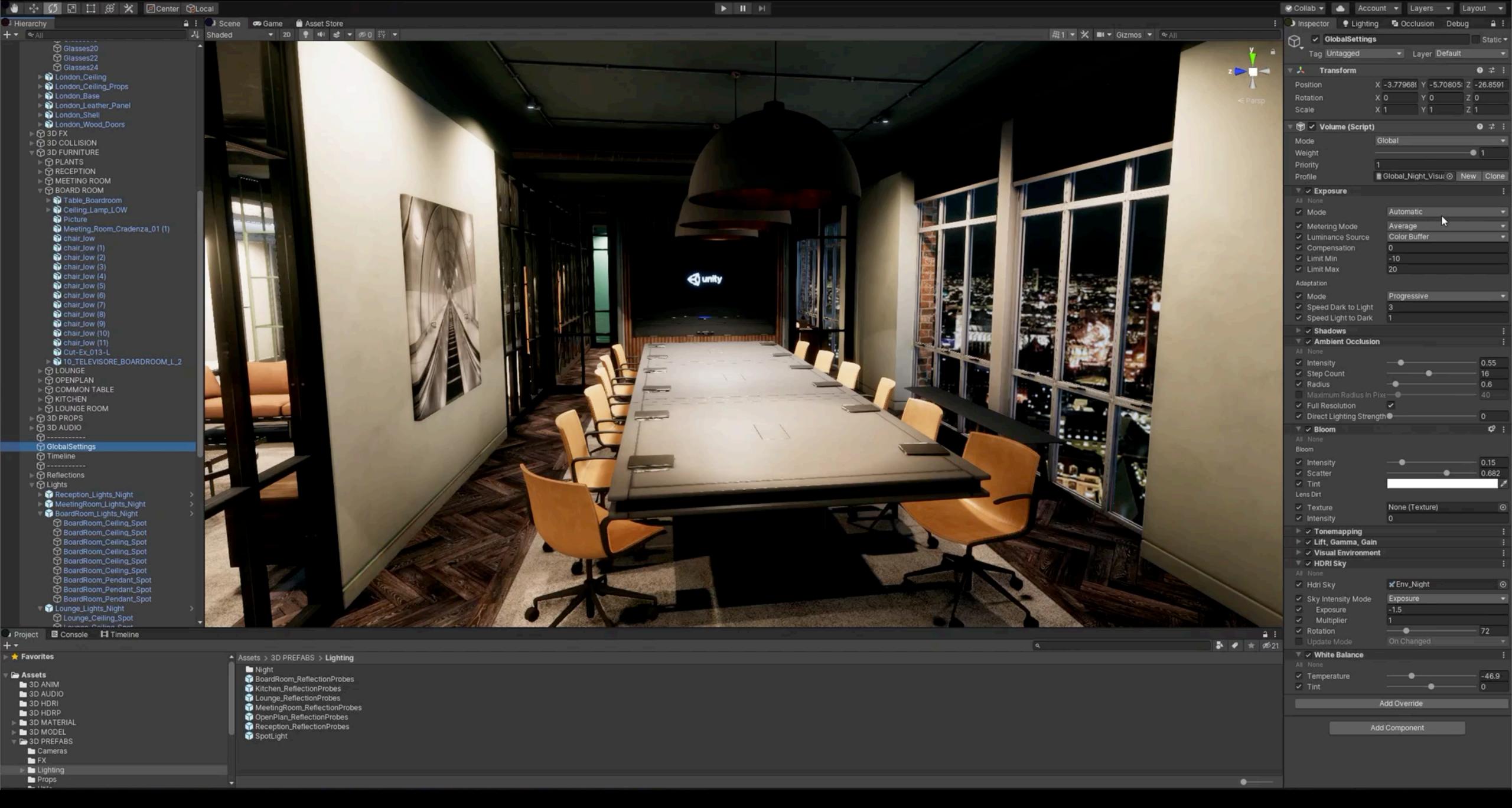








Add another light and change properties





Final Render

A workflow is..

A set of steps taken to achieve an outcome

A workflow is..

Iterations

A set of steps taken to achieve an outcome

A workflow is..

Iterations

Through experimentation

A set of steps taken to achieve an outcome

A workflow is..



What is a workflow How to design good workflows Why design for workflow

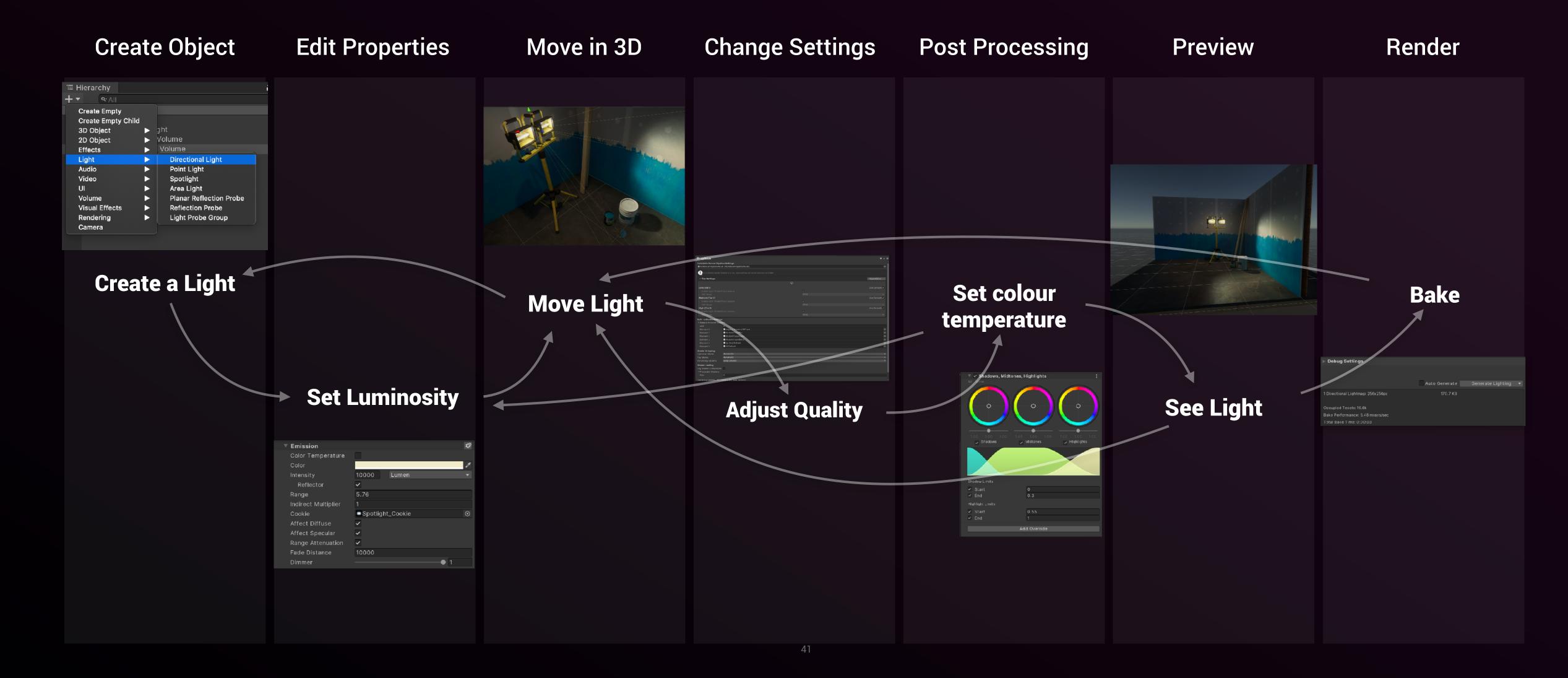
☆ Consider the creative outcome your Northstar

We can't make sense of a workflow by considering each of the tasks separately. We can only design a good experience in a flow.

☆ End-to-end experiences

Create Object	Edit Properties	Move in 3D	Change Settings	Post Processing	Preview	Render

A Beware of context shifts



Designing for creative workflows

Flow

Keep people "in the zone" by designing for context

Divergent Thinking

Make non-linear exploration possible

7 Iteration

Make iteration fast, focused and visual







Enable flow by inferring context from:



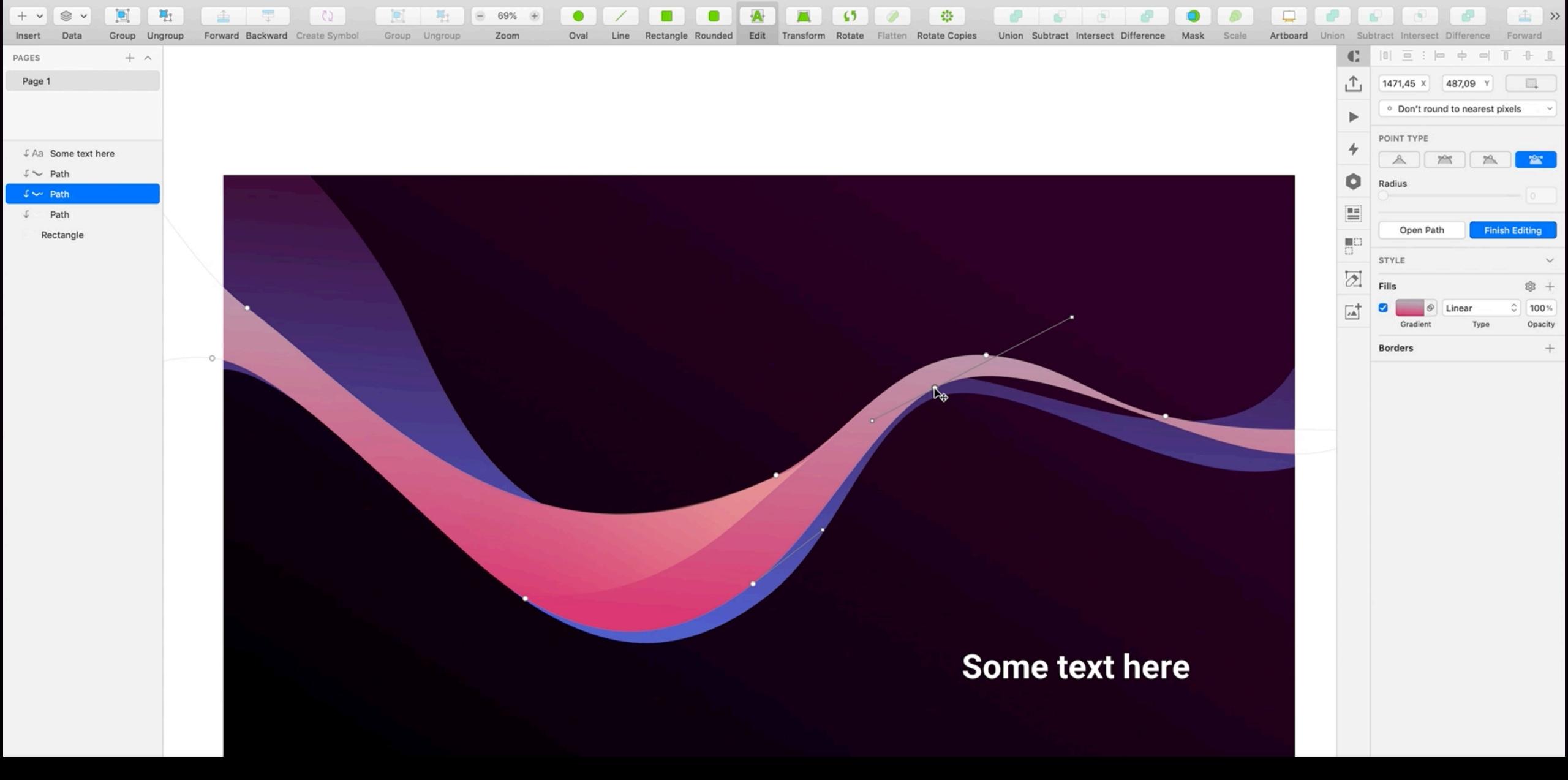
Inferring context from the selected object



Inferring context from the selected tool

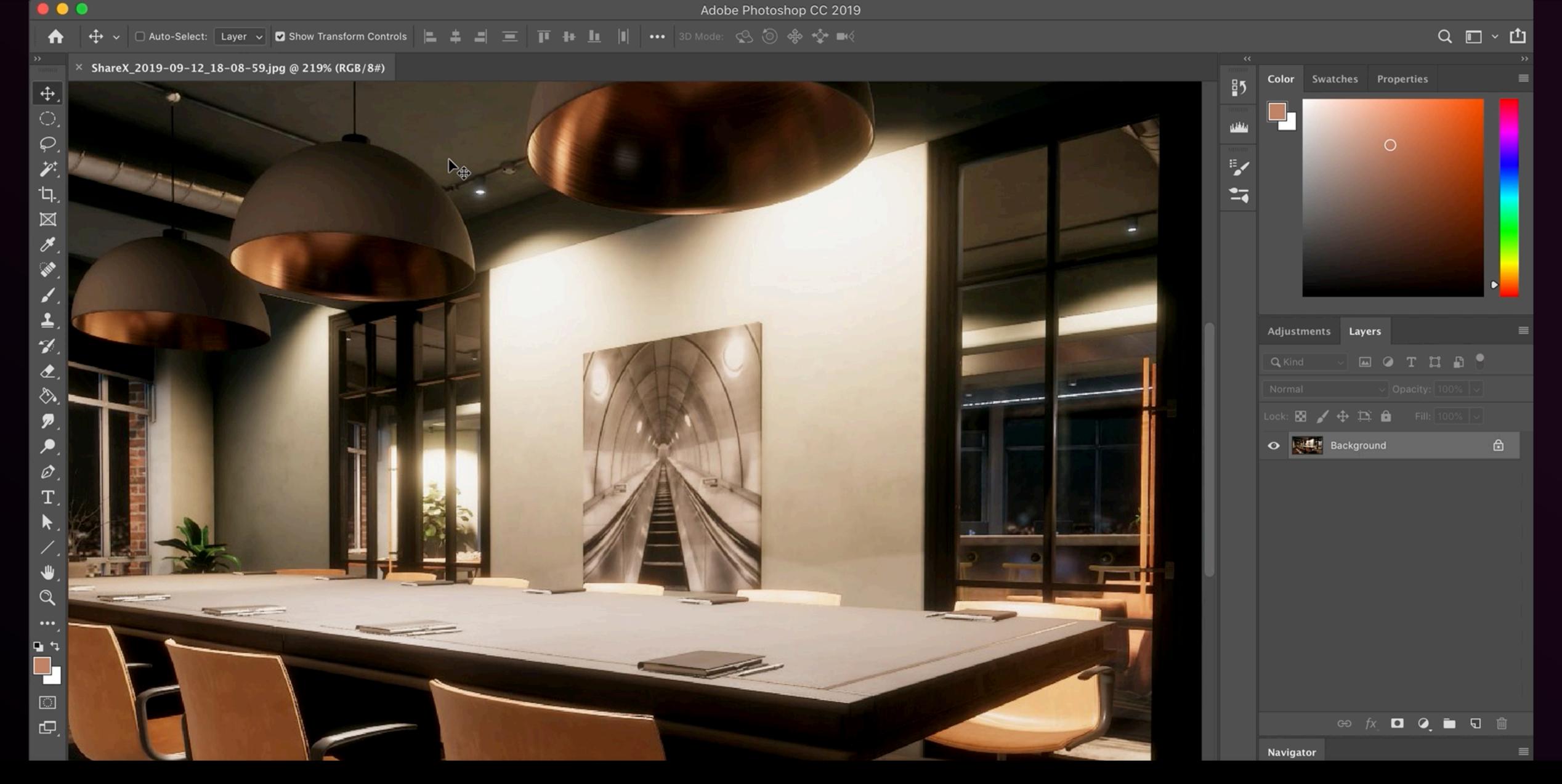


Inferring context from the selected mode



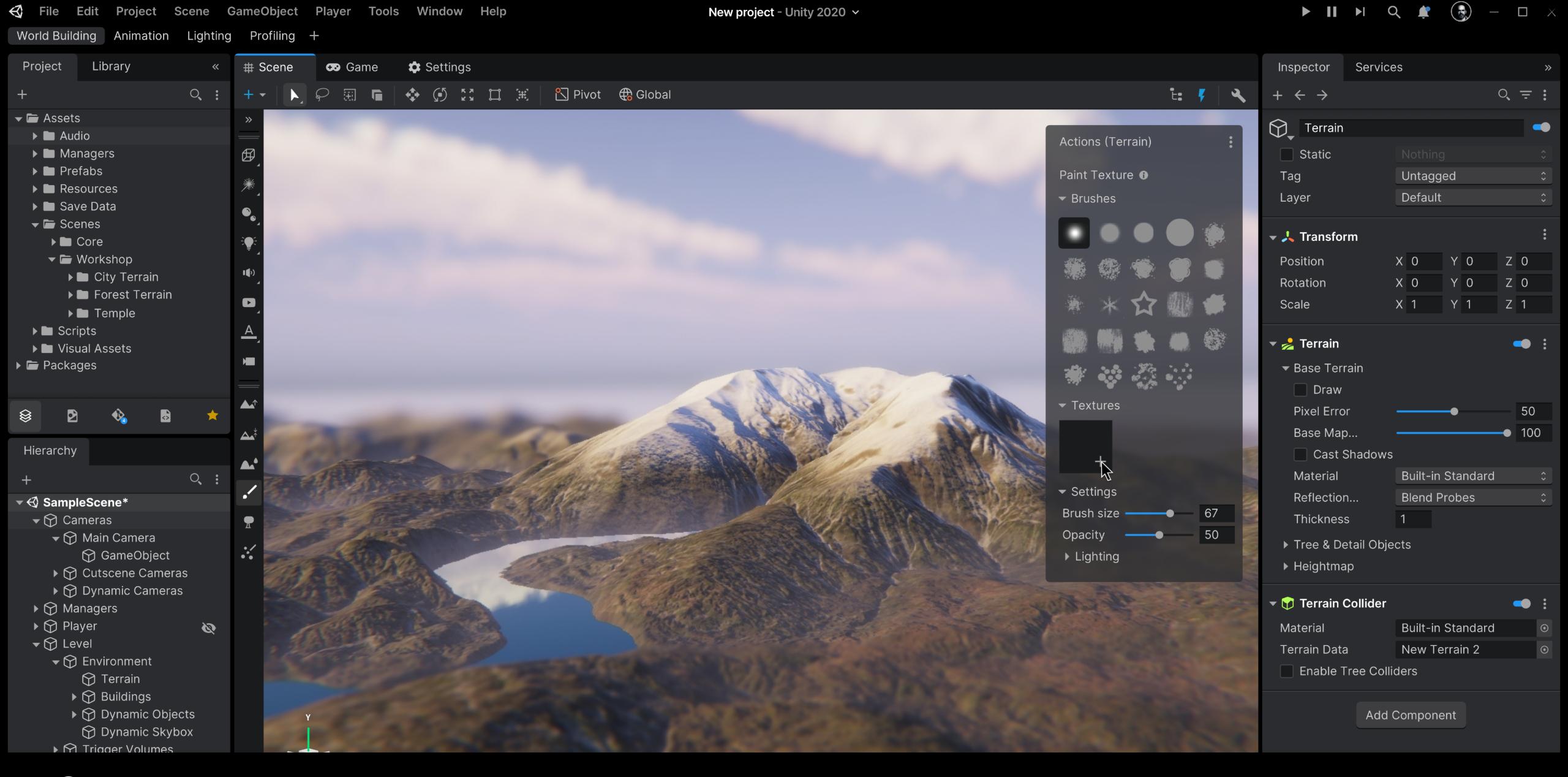


Inferring context from the selected object





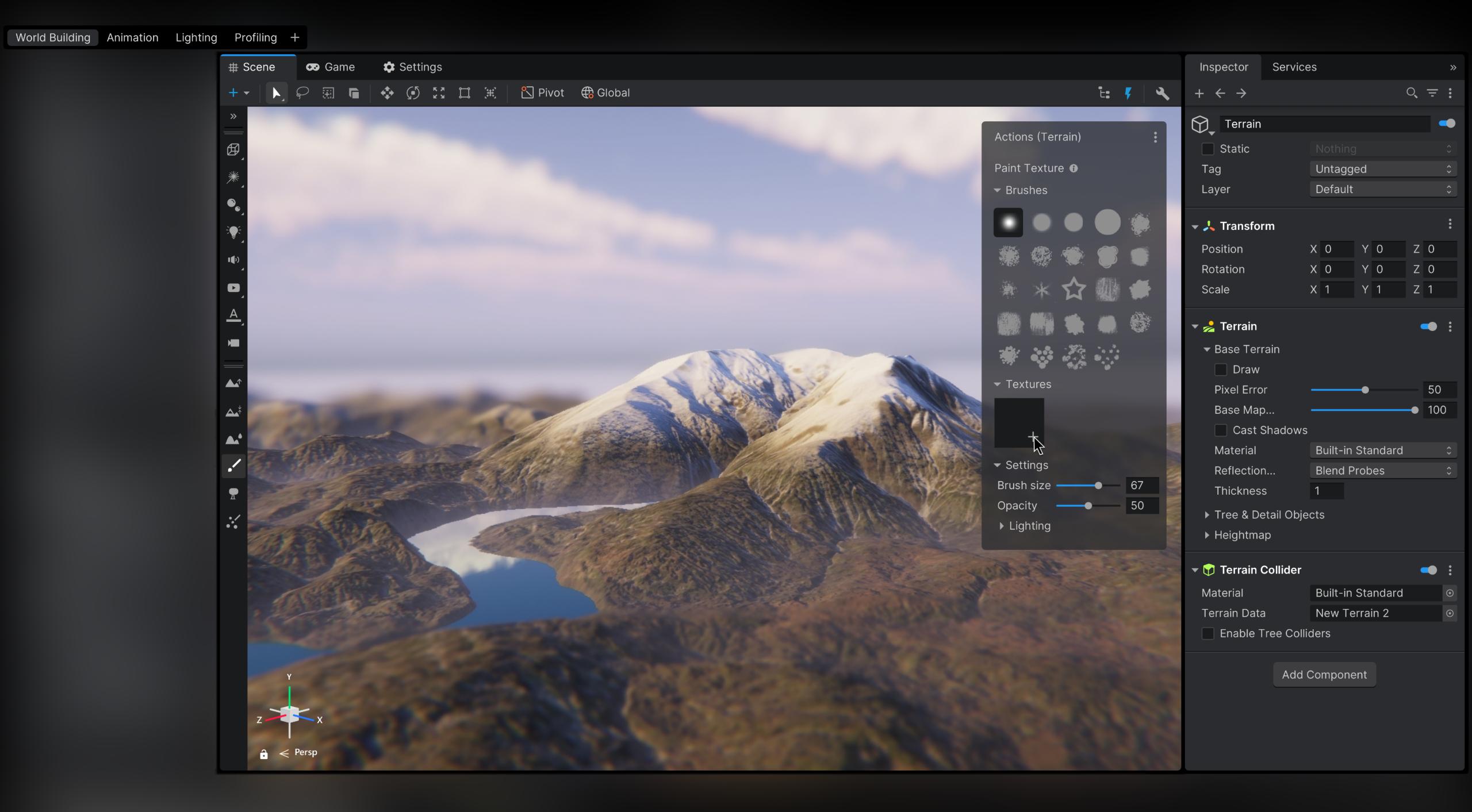
Inferring context from the selected tool

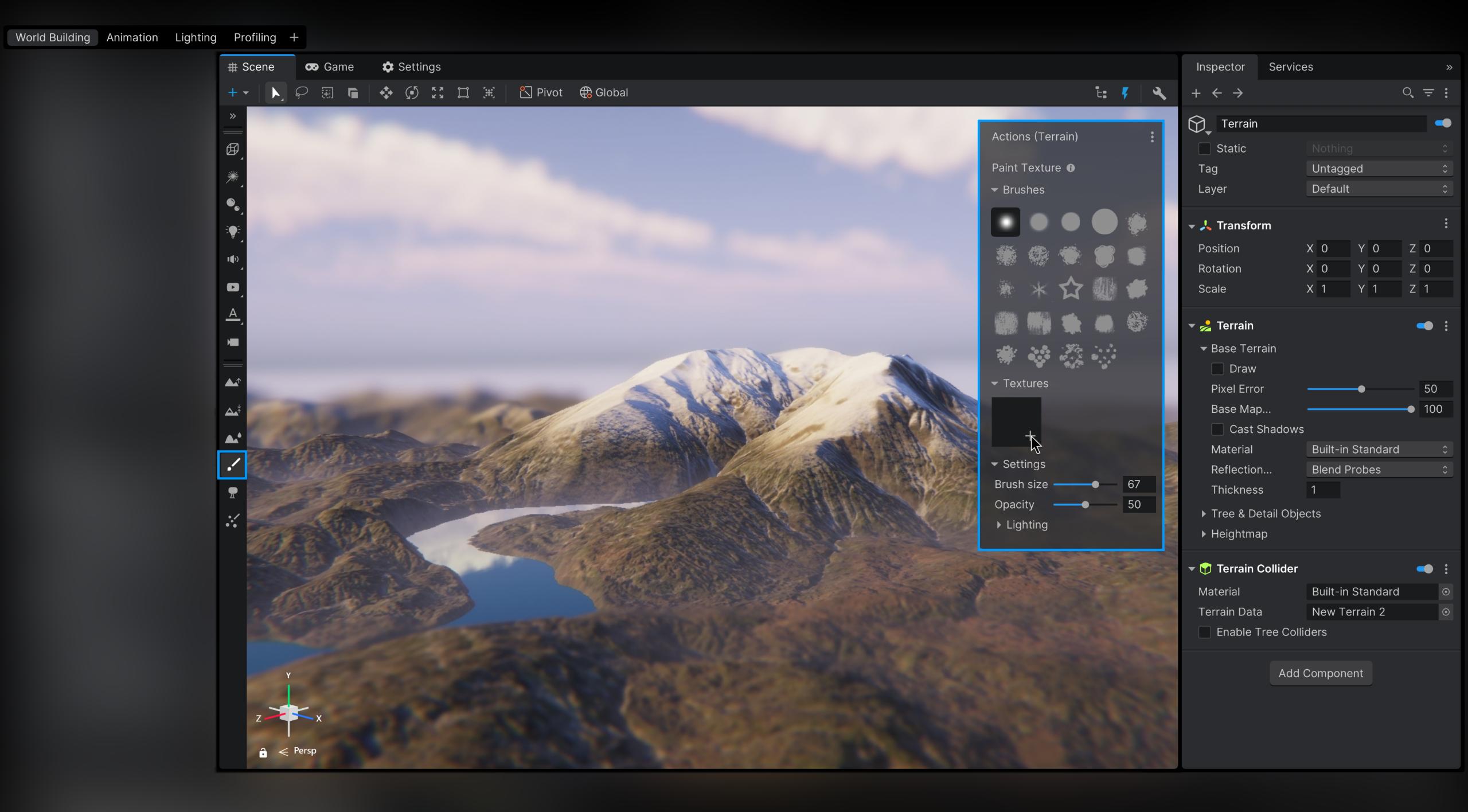


Flow

Inferring context from the selected mode

World Building Animation Lighting Profiling +





Enable divergent thinking

B Save and undo

Stable software encourages people to experiment

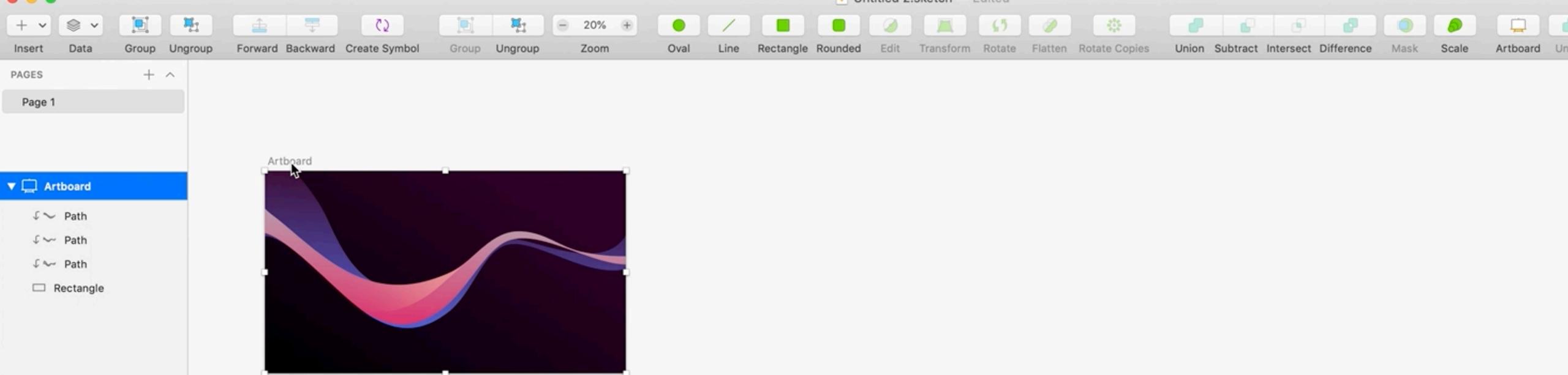
[|: Compare

Give users easy ways to compare ideas

3 Branch

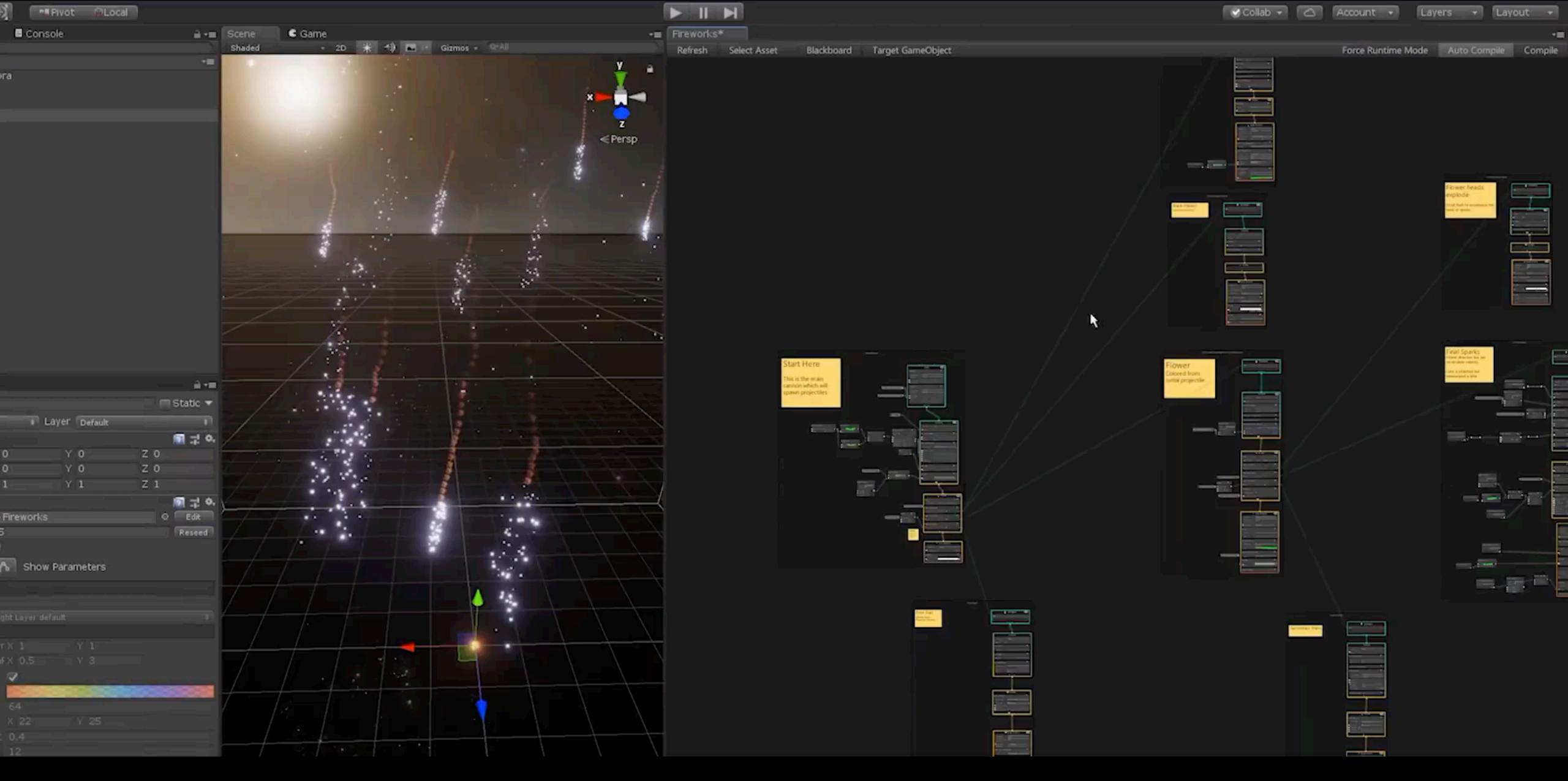
Allow people to branch off, make new ideas and backtrack





→ Divergent Thinking

Give users easy ways to compare ideas



→ Divergent Thinking

Allow for branching

Support iteration

Show a Preview

What you see is what you get

© Reduce waiting time

Asynchronous uploading, rendering and other tricks

Focus

Provide spaces where people can have a singular focus



4 Iteration

Provide spaces where people can have a singular focus

A workflow is..

A workflow is.. Iterations

A set of steps taken to achieve an outcome

Non-linear

A workflow is..

Iterations

Through experimentation

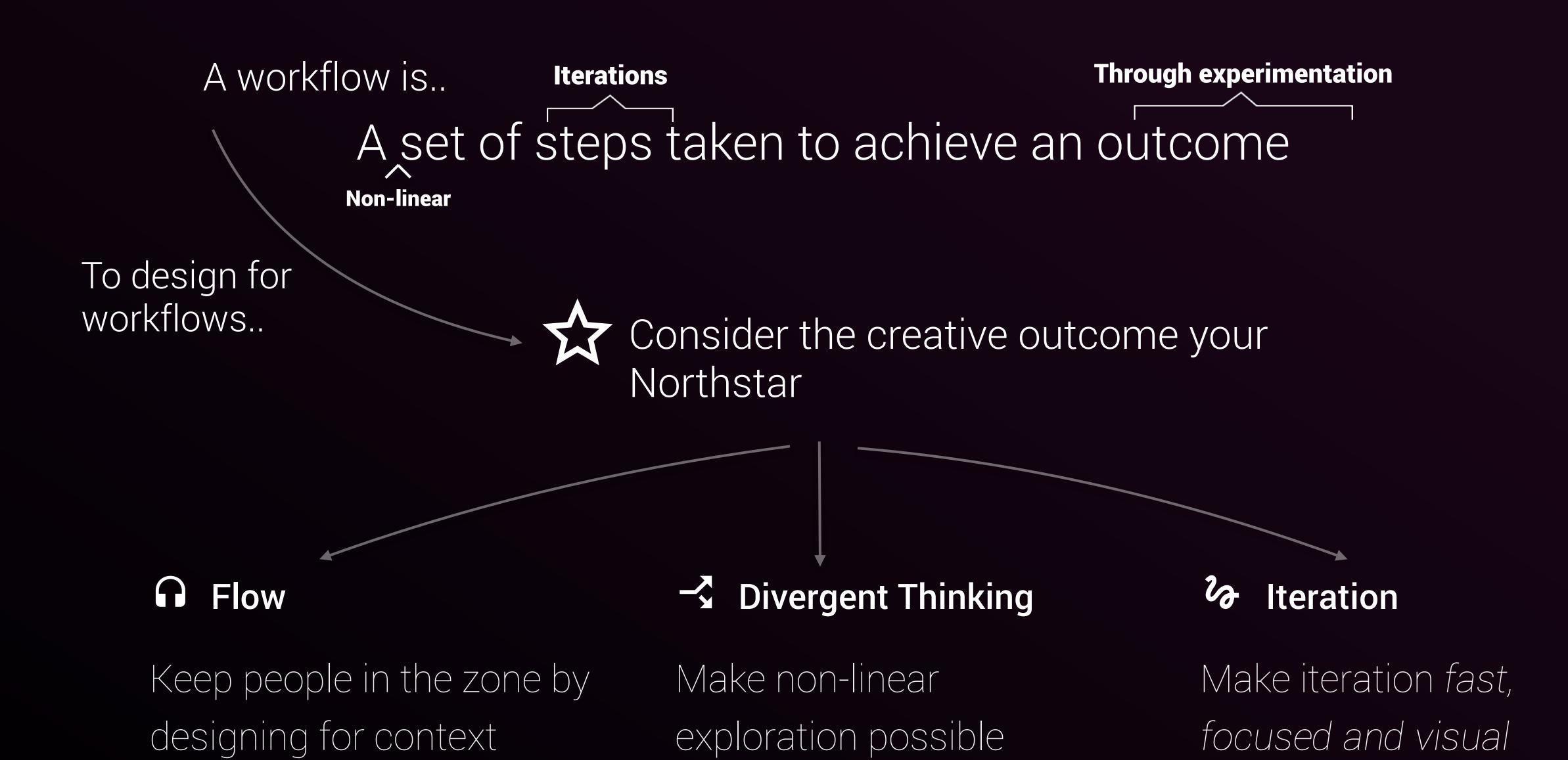
A set of steps taken to achieve an outcome

Non-linear

To design for workflows..



Consider the creative outcome your Northstar



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Users are expecting increasingly higher standards for productivity

Creativity isn't only for artists.



Thank You

@nikolineUX

All visual effects made with Unity's Visual Effect Graph https://ole.unity.com/vfxgraphoverview

Learn more

Tales of Creativity and Play -Tim Brown

https://www.ted.com/
talks/
tim_brown_on_creativity_an
d_play?language=en

Kinds of Seeing and their Functions in Designing

Design Studies, 13.2, Schon and Wiggins **Evolving the Unity Editor UX**

https://blogs.unity3d.com/ 2019/08/29/evolving-theunity-editor-ux/



