

Maya and Bifrost for Layout Bringing More to Your Cinematic Workflow

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Maya and Bifrost user

CG Generalist

Animation Background

Layout Artist

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Maya and Bifrost for Layout Bringing More to Your Cinematic Workflow

LEARNING OBJECTIVES

- Overview of Bifrost and what it is
- Discover the benefits of Bifrost in your Cinematic workflow
- Learn how to capitalize on Maya and Bifrost tools
- Learn to accelerate your workflow in building content

LAYOUT?

LAYOUT

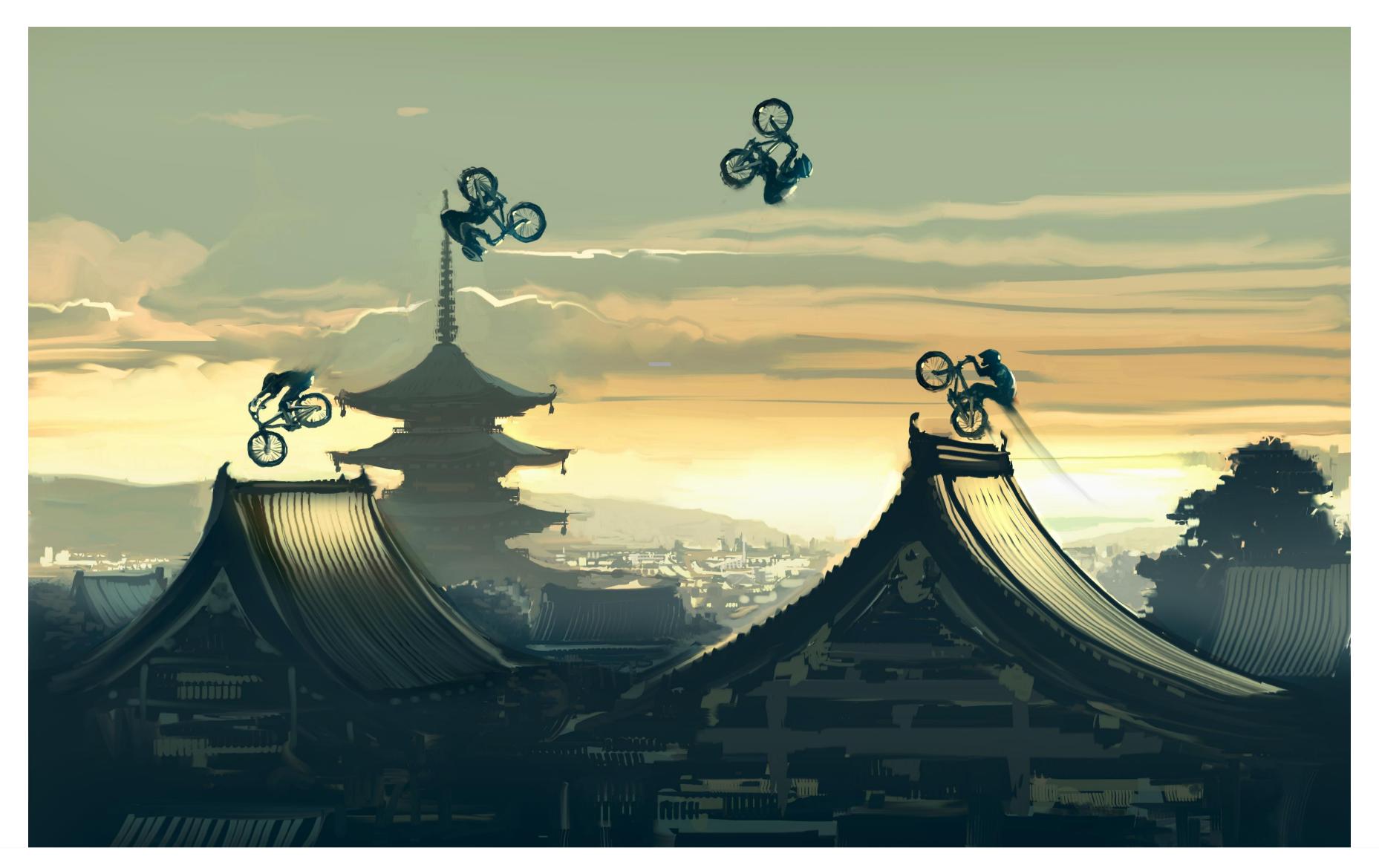
/'la,out/

"the way in which parts of something are arranged or laid out."

Oxford Dictionary



Ryohei Yamashita



Ryohei Yamashita



Jonah Friedman

Layout Components

PREVIS — POSTVIS —

Post-Visualization

Overall Planning

2D/3D Integration

Cinematic Feasibility

Documentation

Reference

Story Development

Environment Development

Cinematography

Character Blocking

Mock-up FX

PRODUCTION

Animation

Lighting

Matte Painting

Environment

Compositing

FX

PIPELINE

Asset Management

Scene Management

Shot Management

Maintenance

Technical Support

Layout Components

PRODUCTION

Animation

Lighting

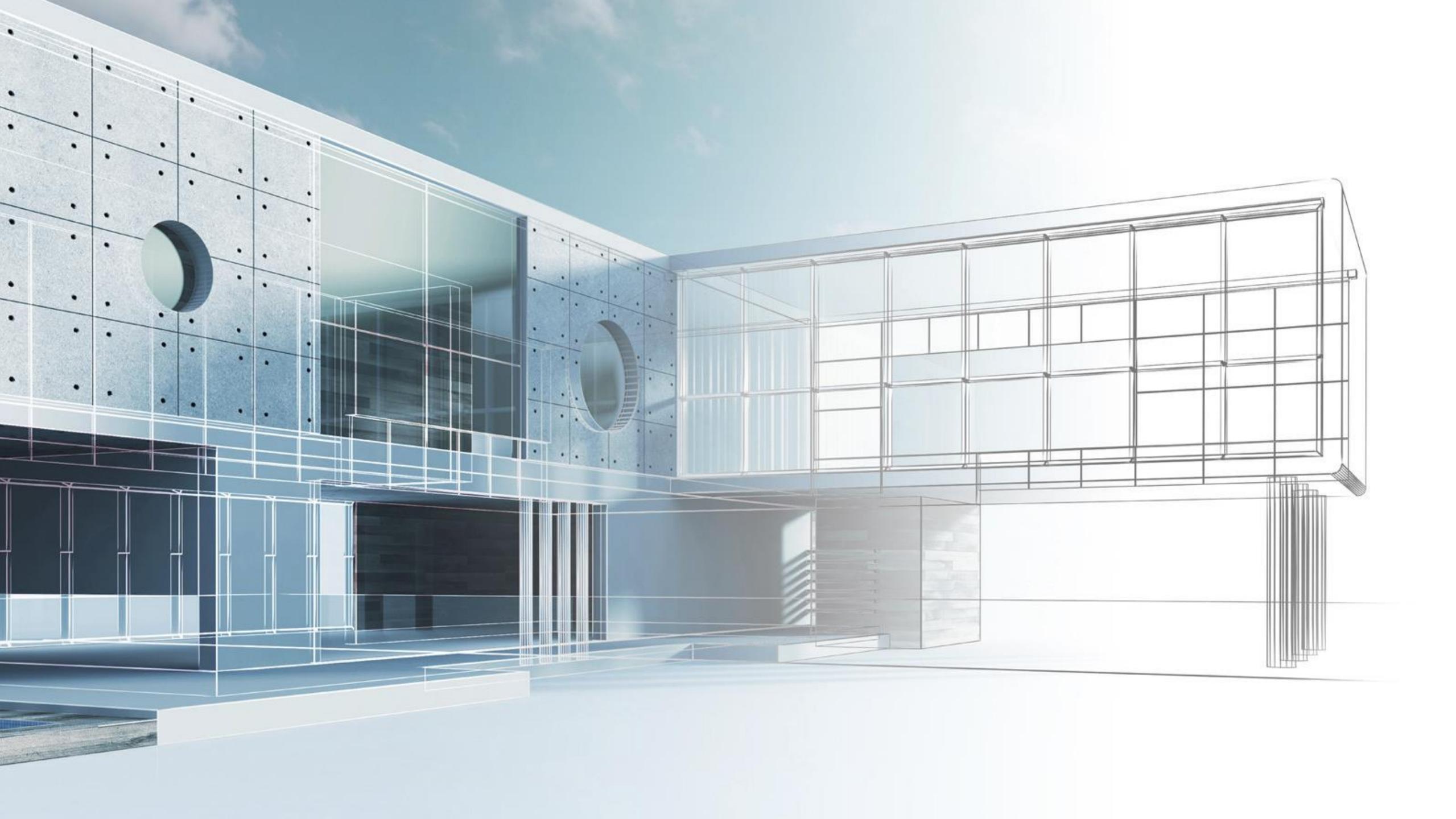
Matte Painting

Environment

Compositing

FX





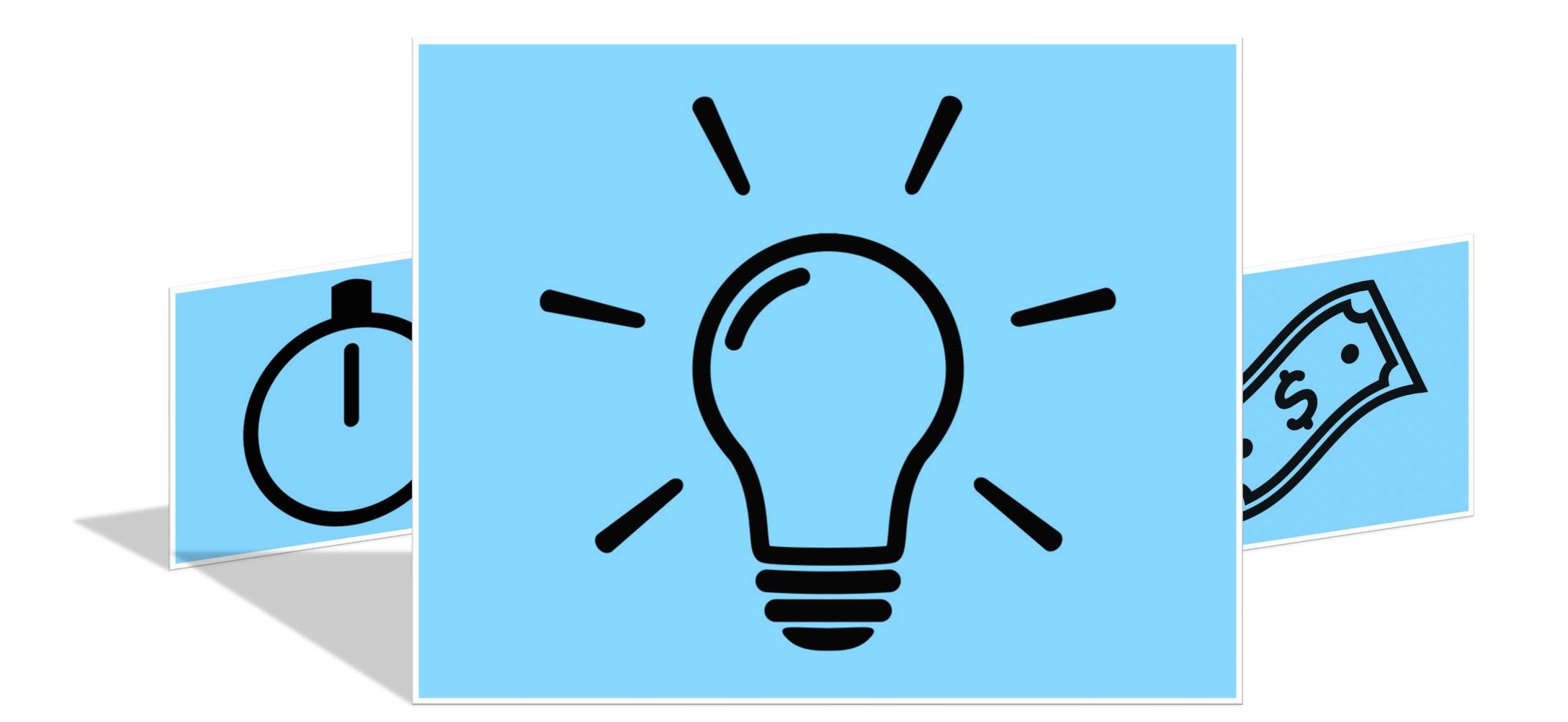


Low Speed High

Low Speed High

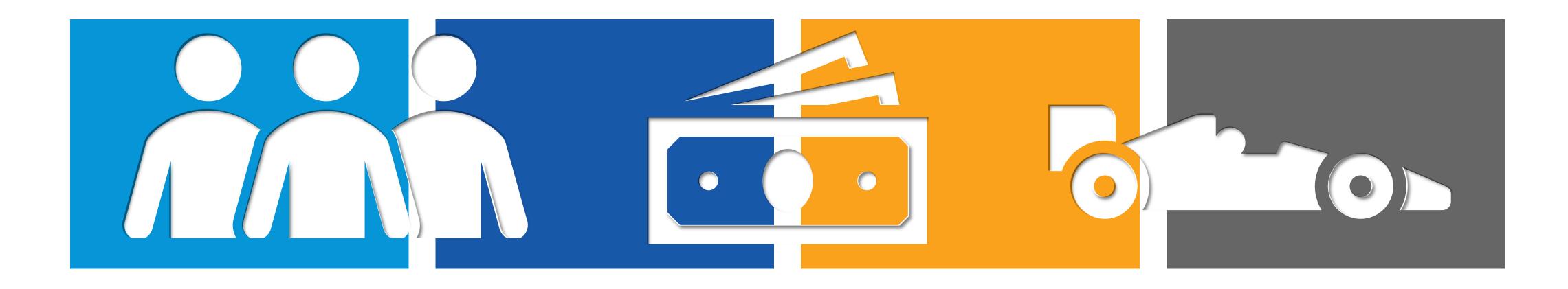
A common theme







BIFRÖST



Collaborate

Reduce Costs

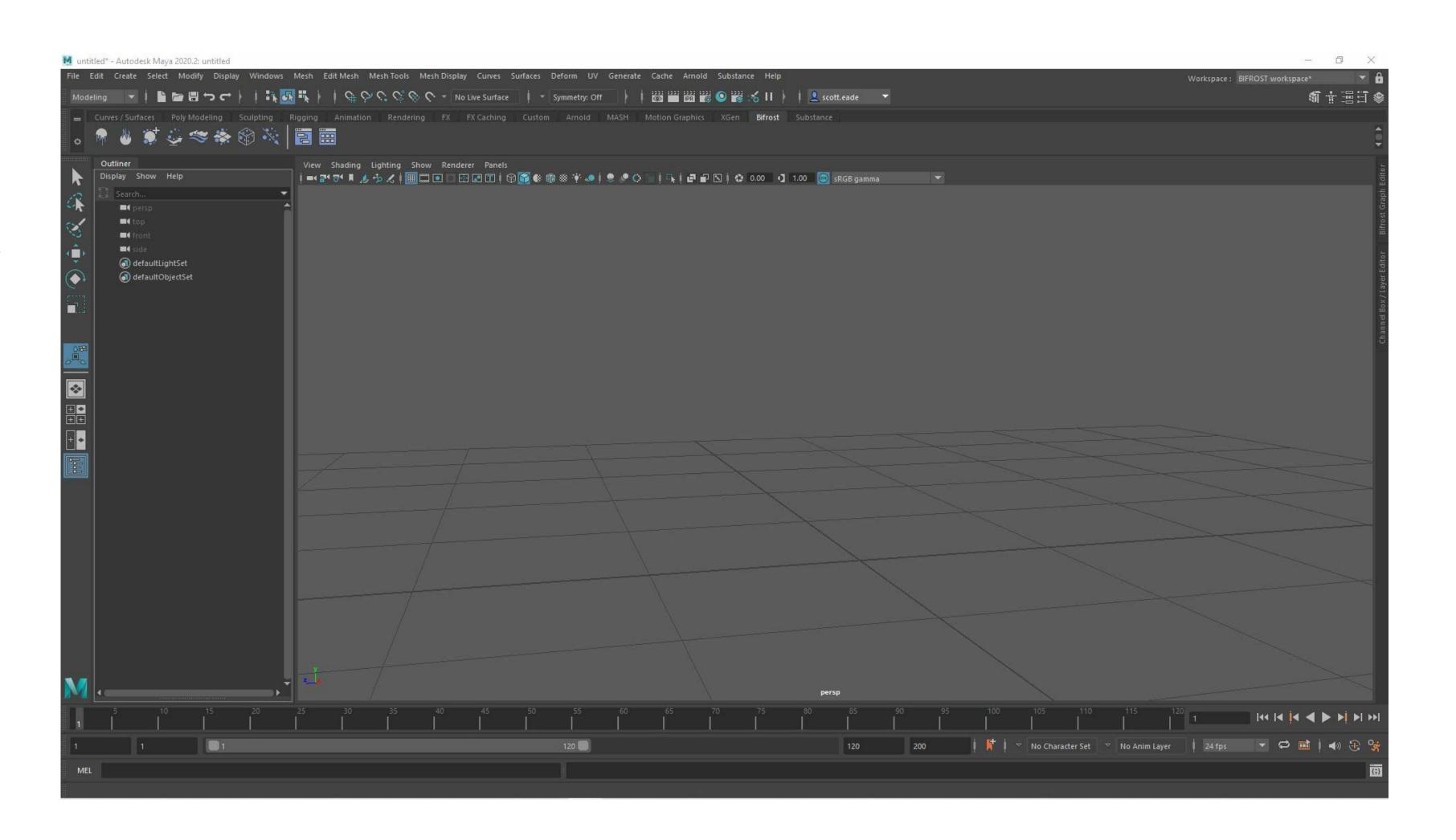
Go Faster

BIFRÖST in Maya

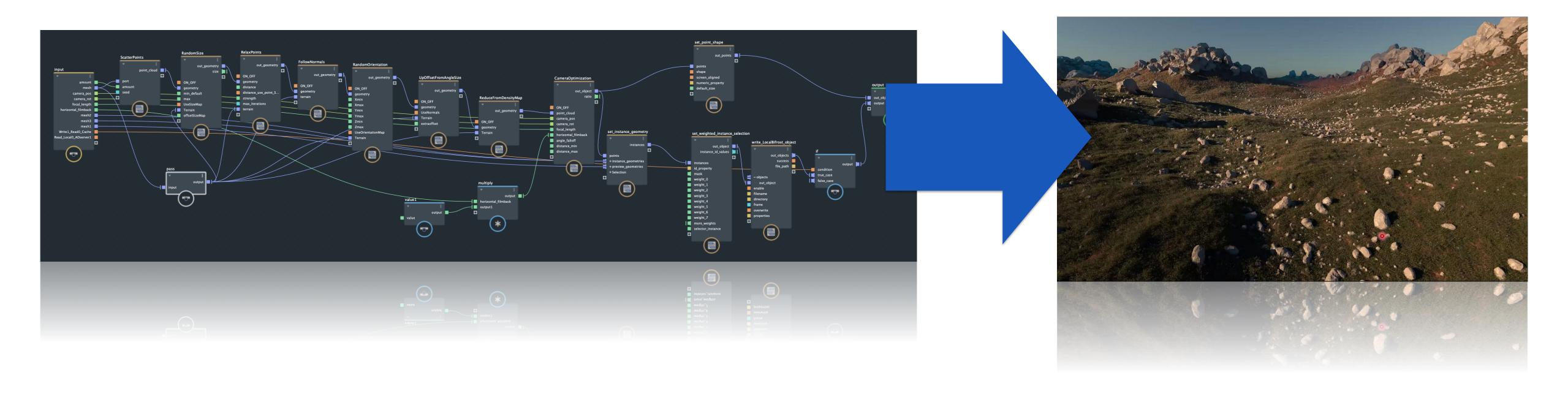
A visual programming environment for 3D graphics.

A powerful, procedural content creation framework.

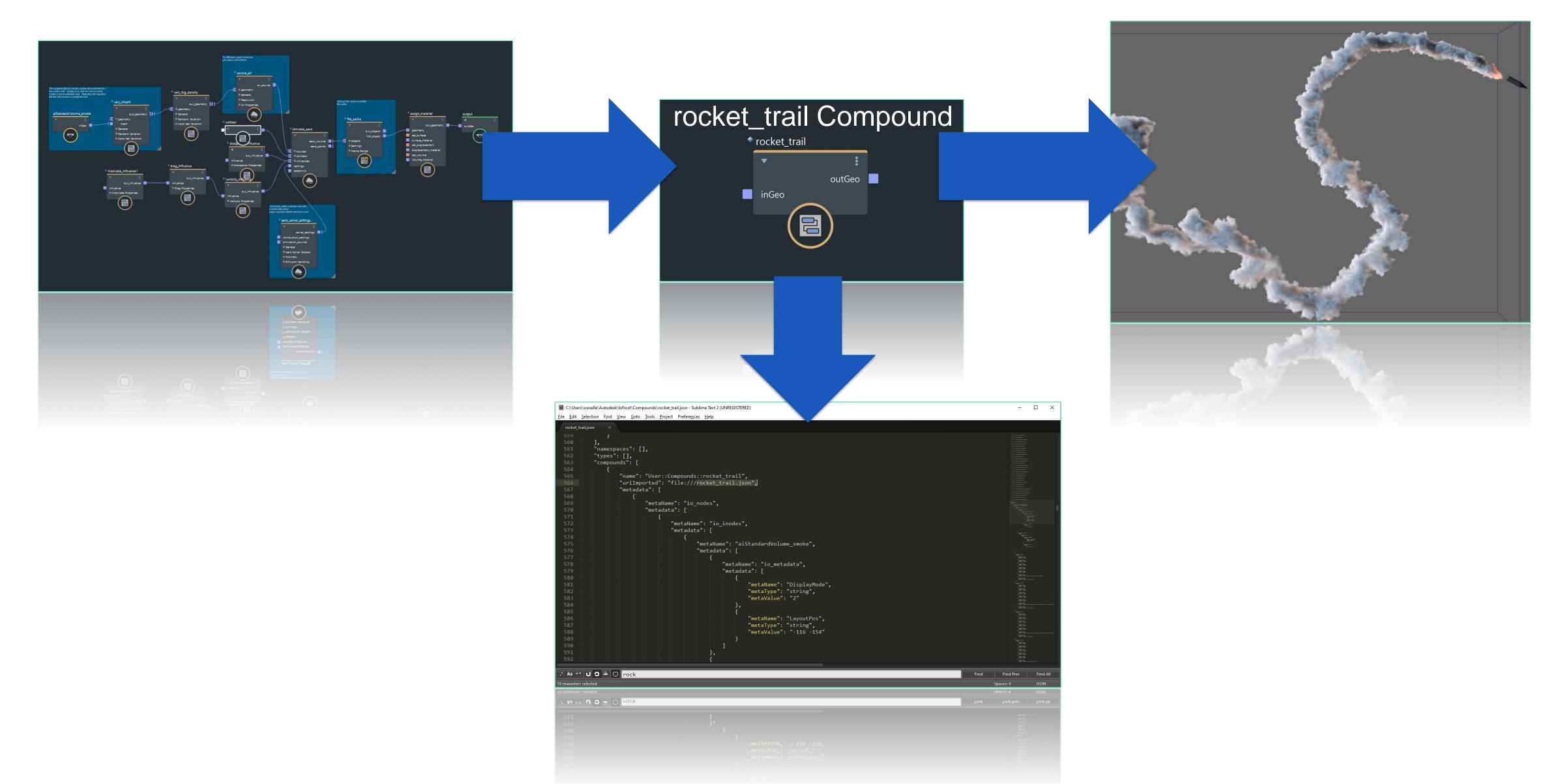
A tool for automated processes and asset creation.



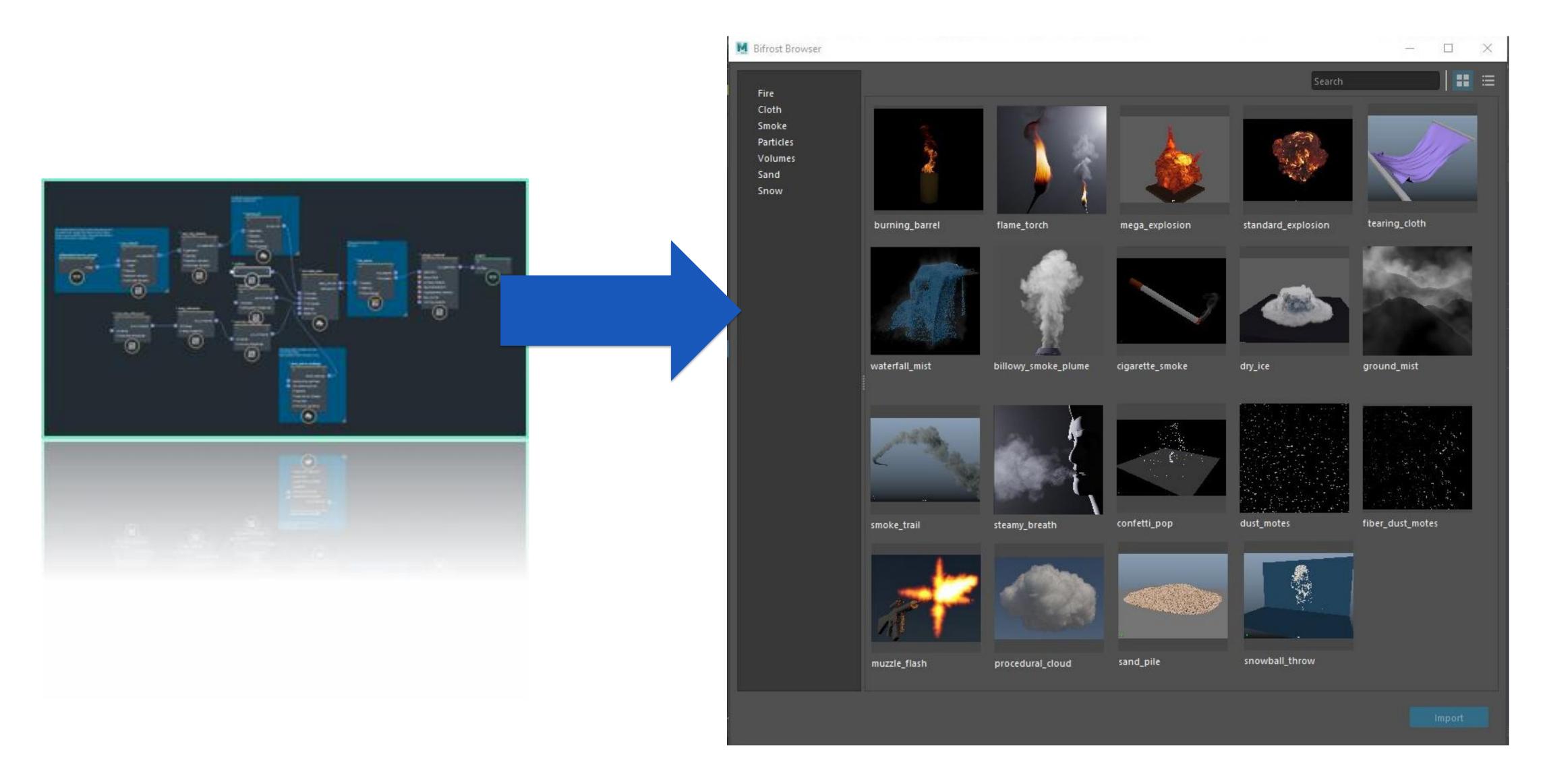
BIFRÖST I build and customize graphs



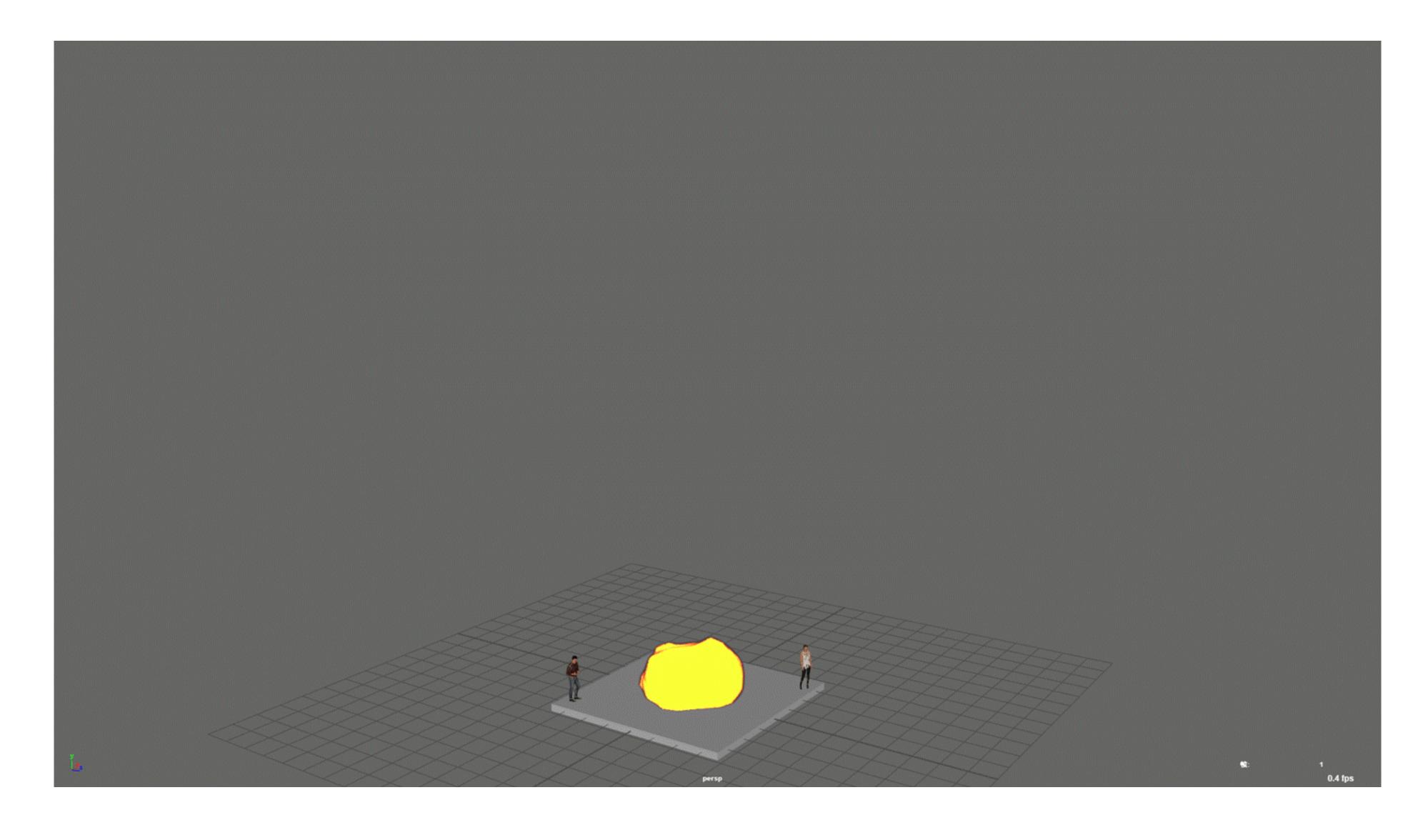
BIFRÖST | What is a Compound?



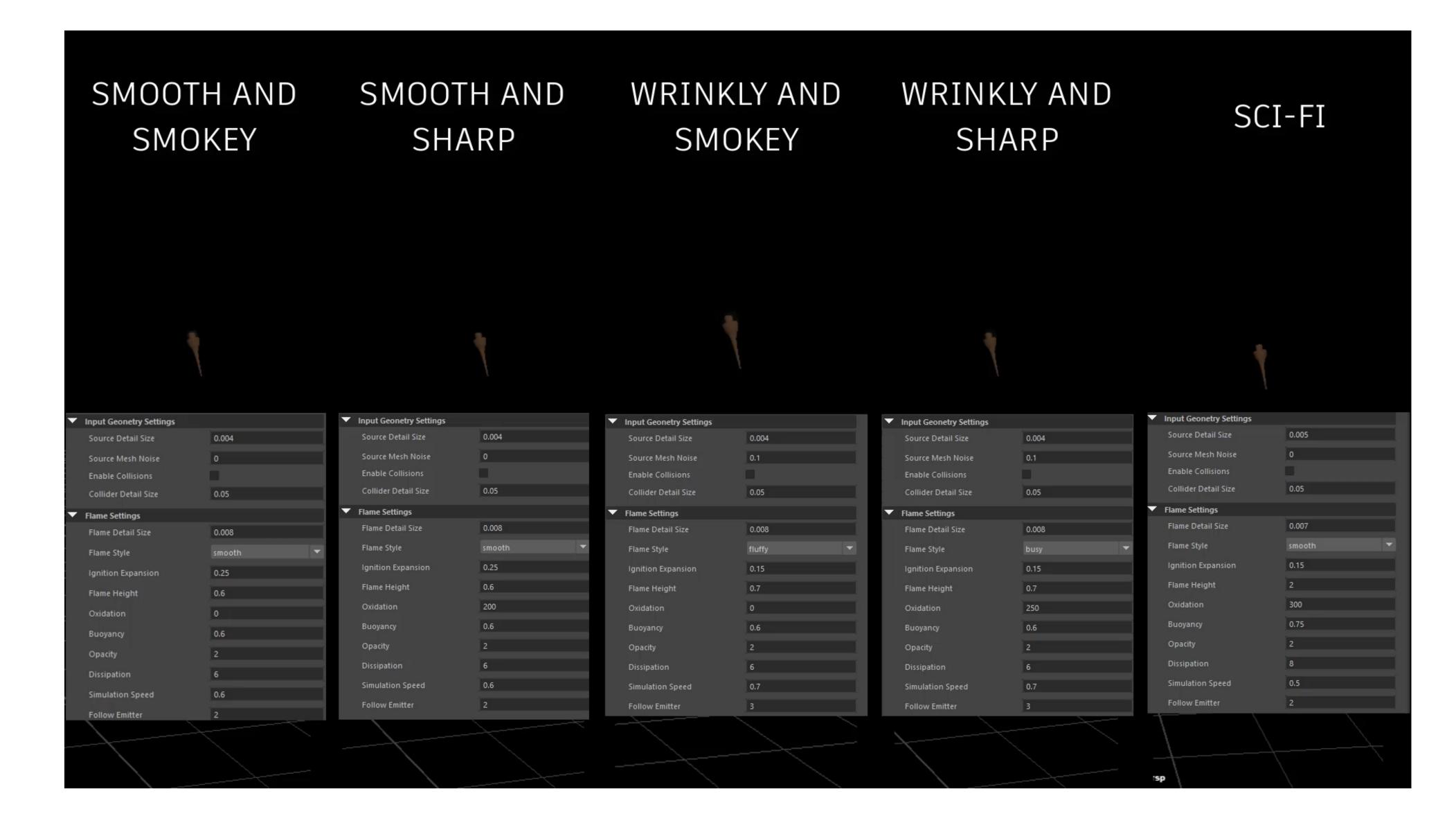
BIFRÖST | What is a Compound?



BIFRÖST | Libraries of graphs



BIFRÖST I Simple changes for big results

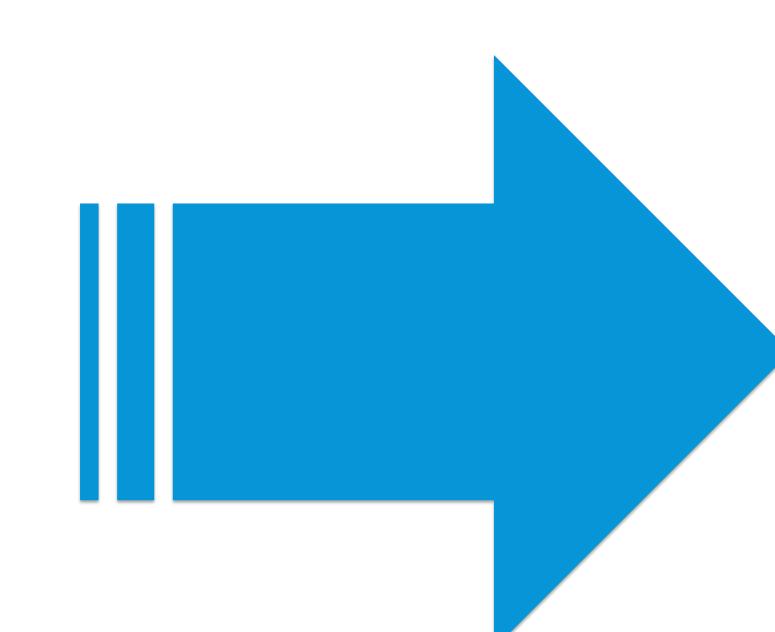


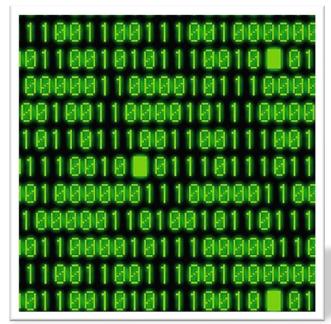
Collections of ready-to-use compounds

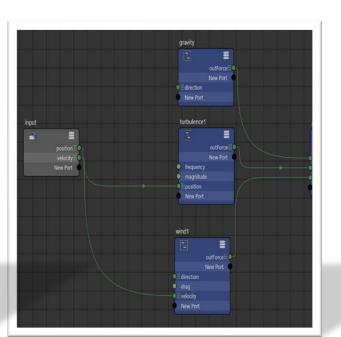
Core Pack

FX Pack

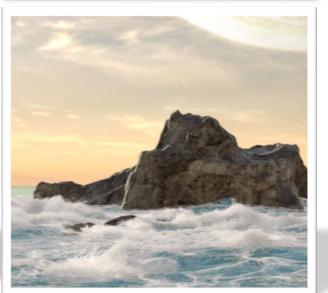
World Pack/Scattering

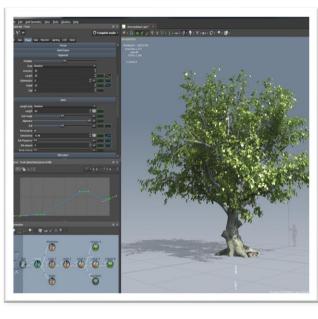






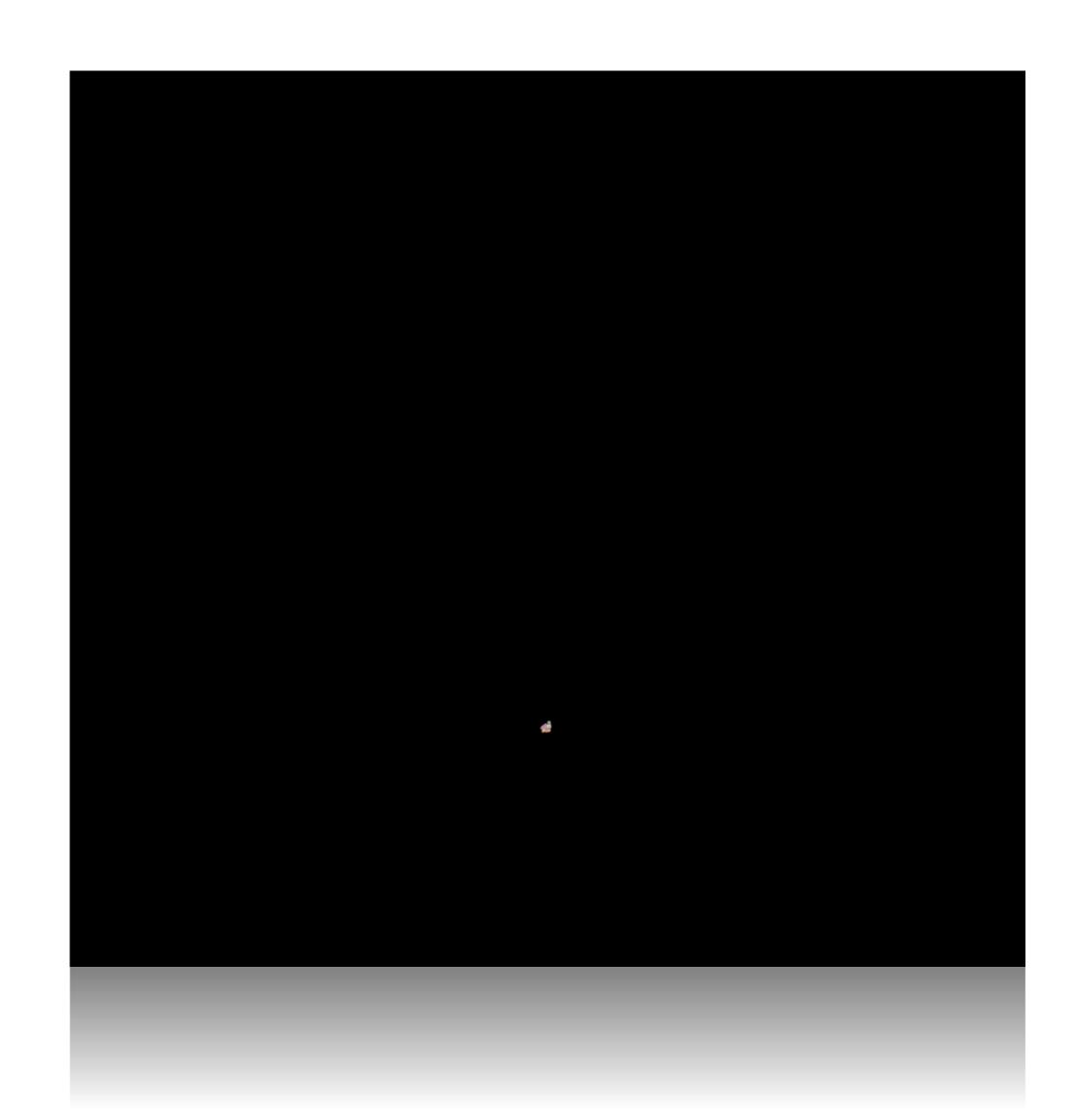








- Particles
- Aero
- Combustion
- MPM



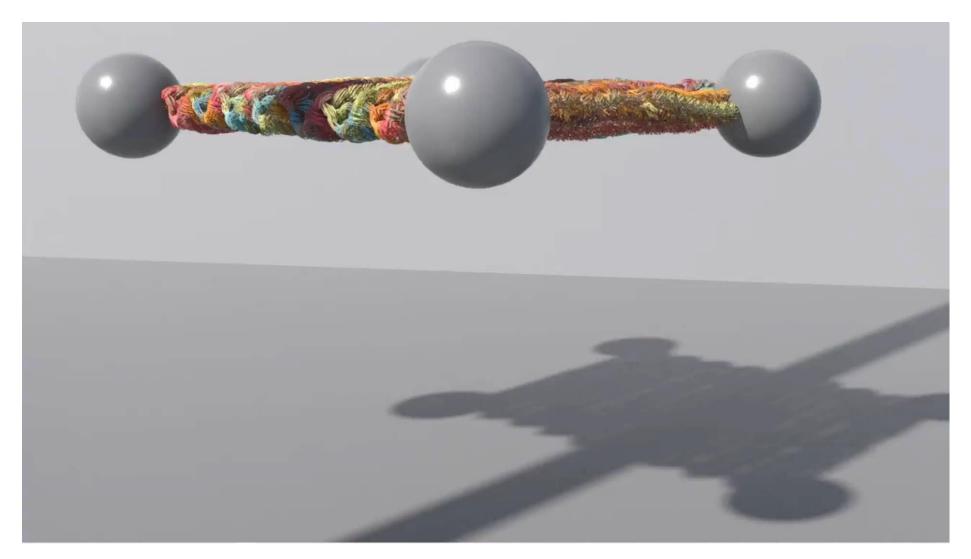
- Particles
- Aero
- Combustion
- MPN

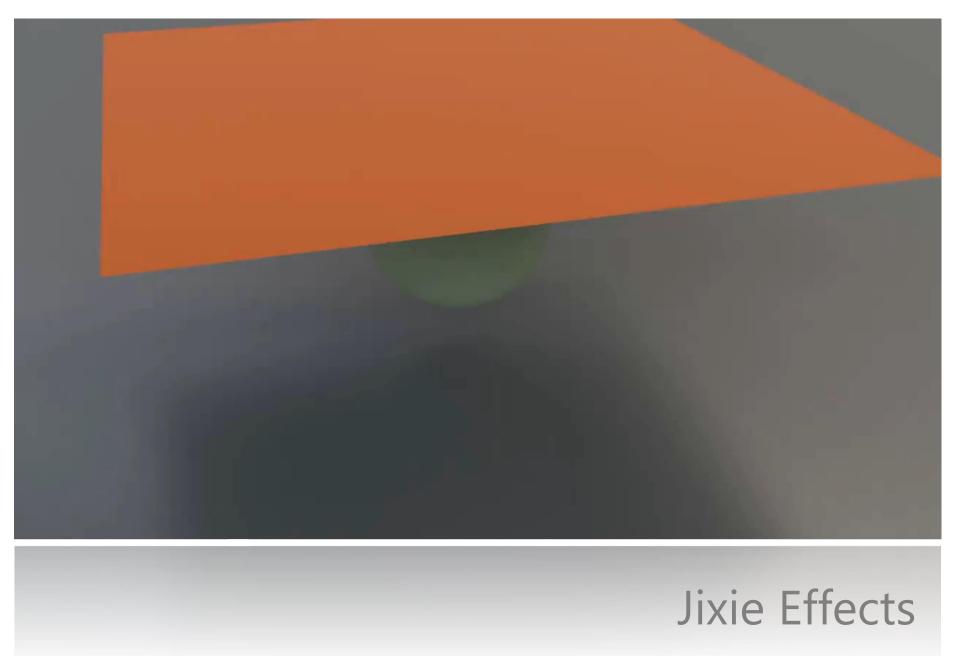


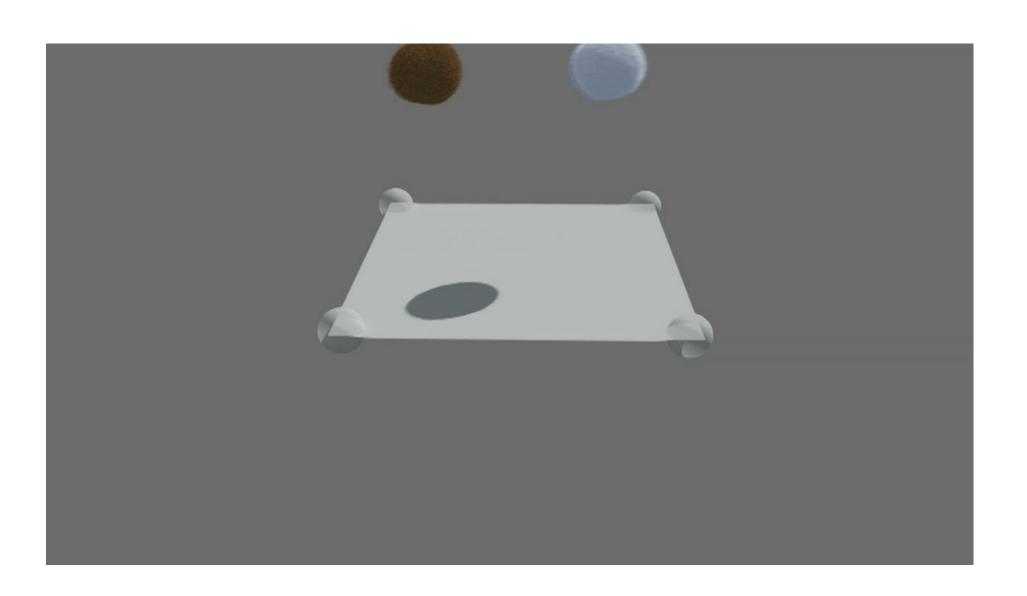
- Particles
- Aero
- Combustion
- MPM

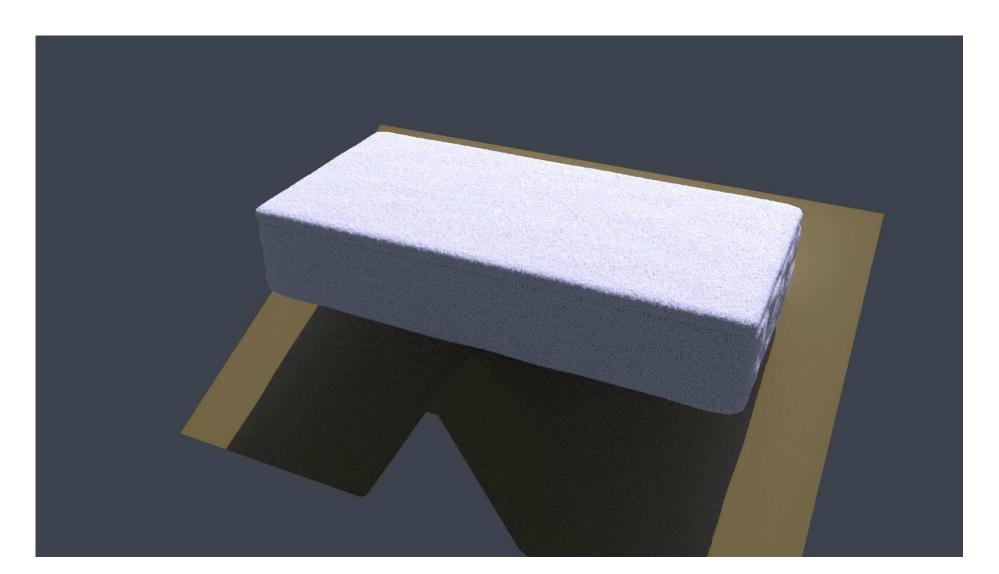


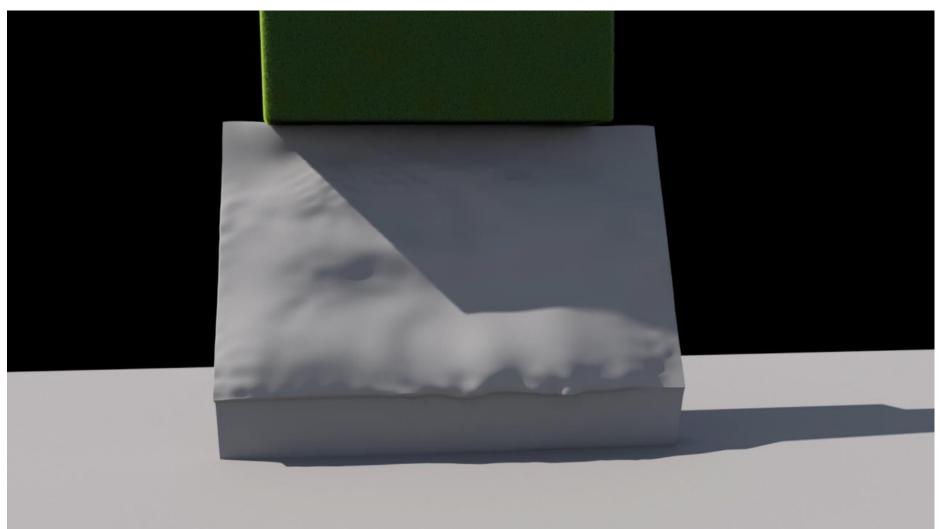
- Particles
- Aero
- Combustion
- MPM

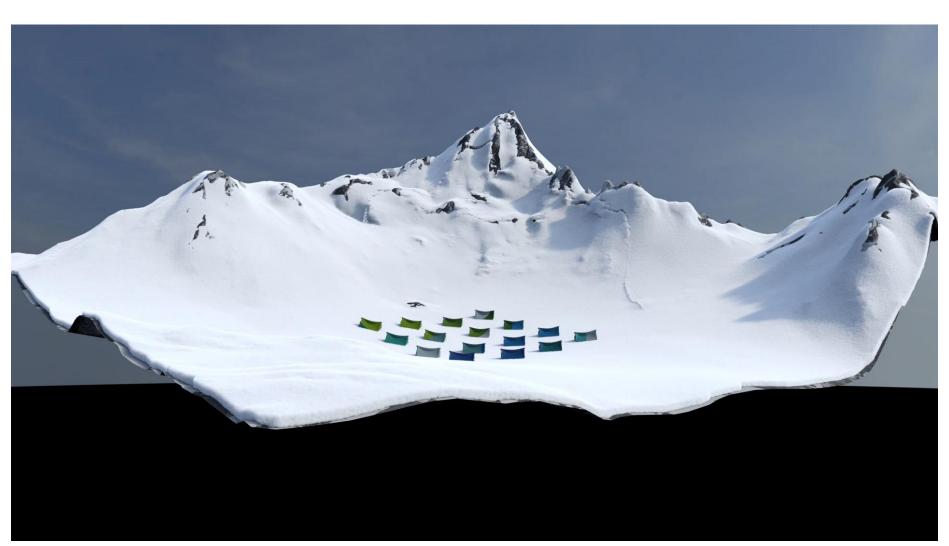




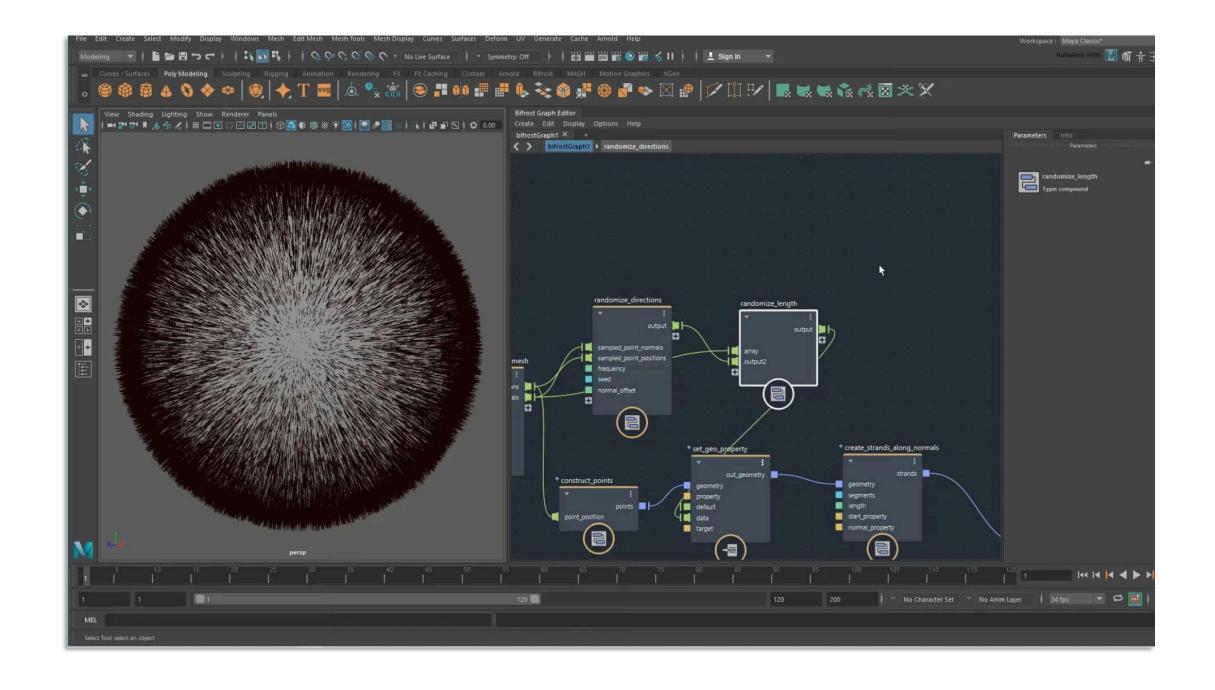


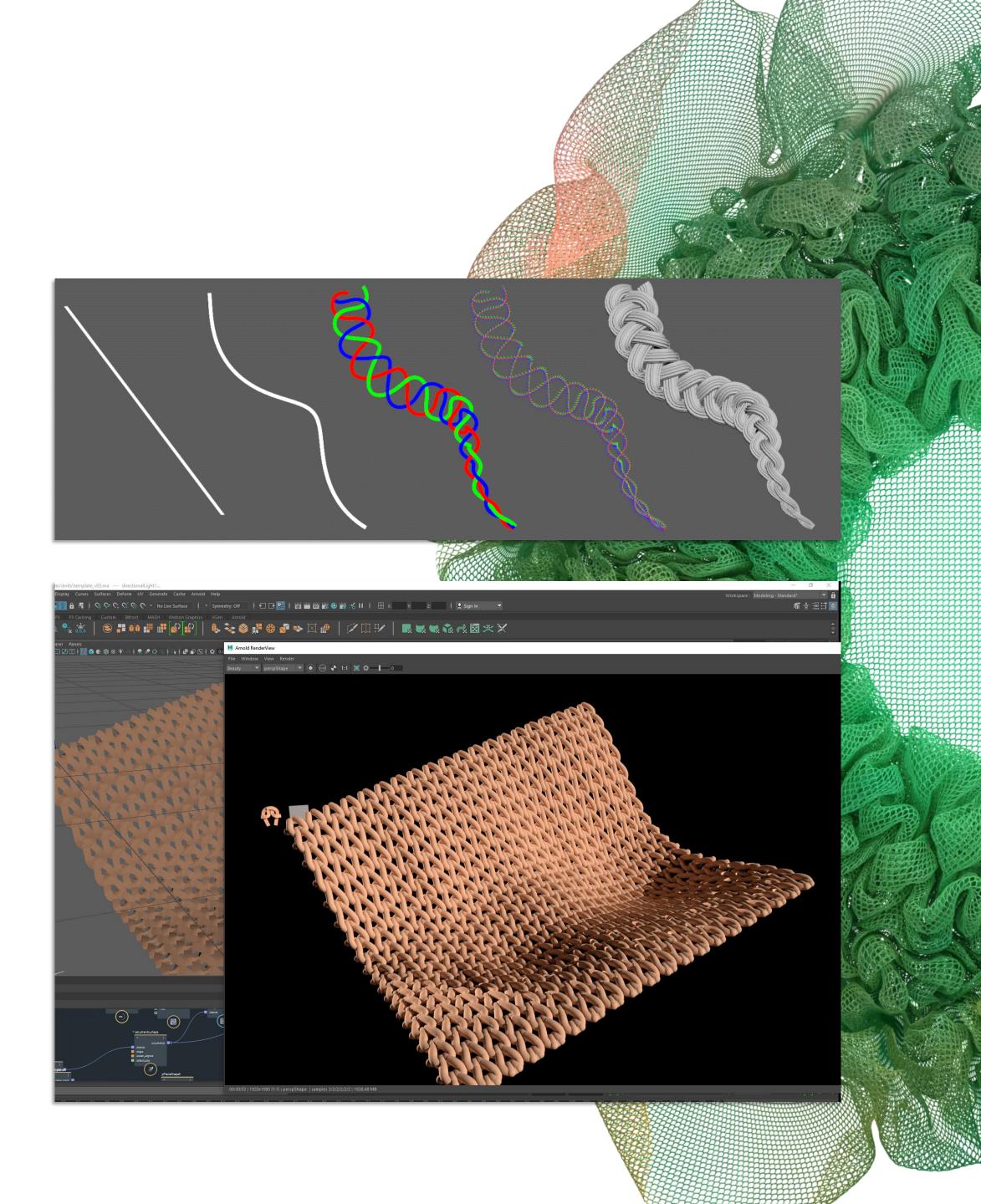




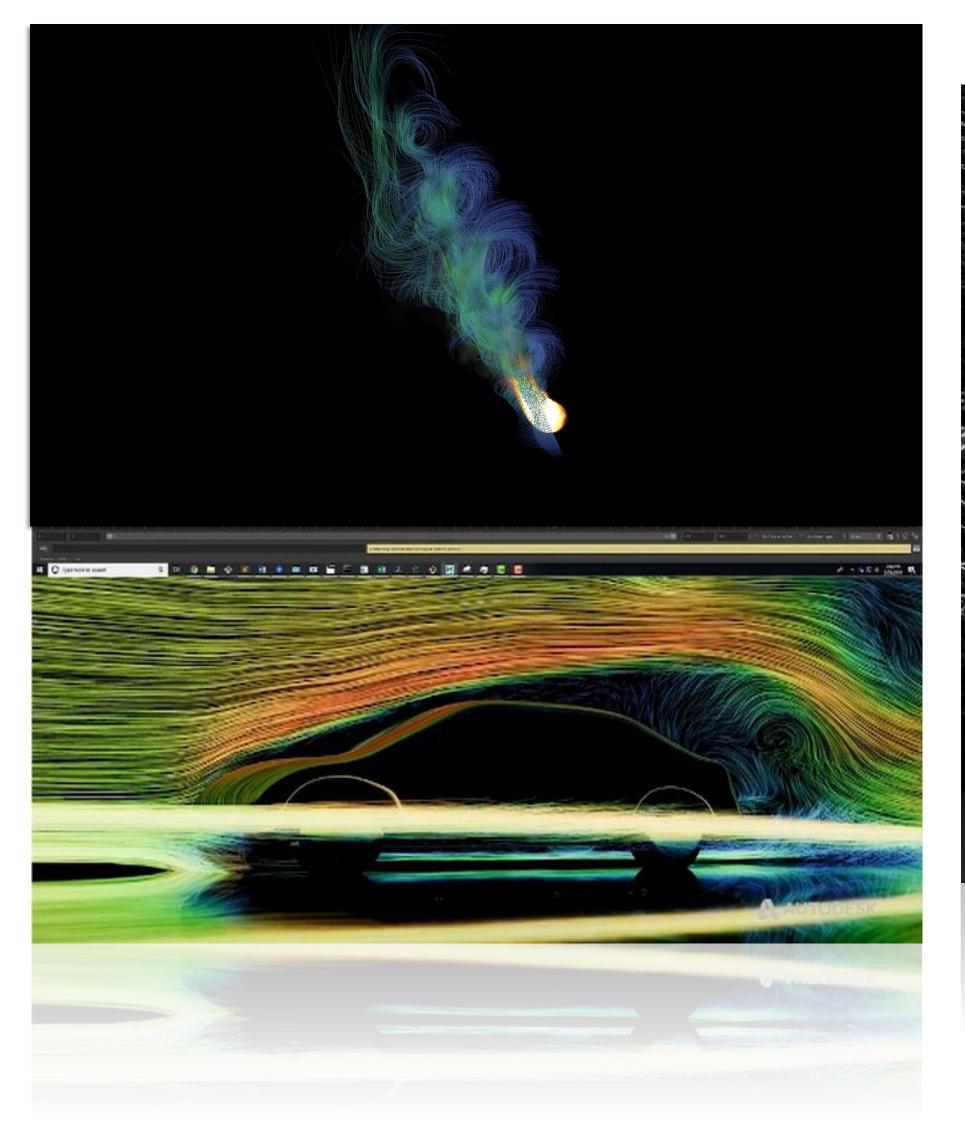


BIFRÖST | Strands





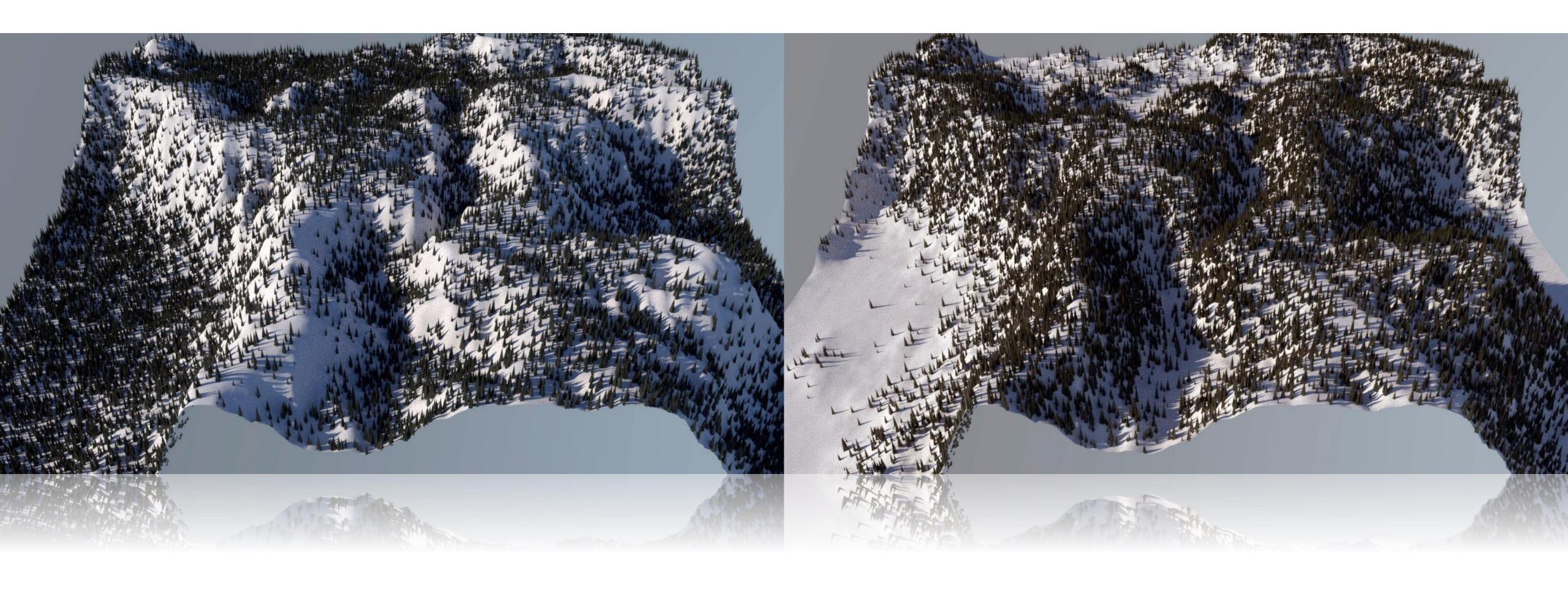
BIFRÖST | Experimentation





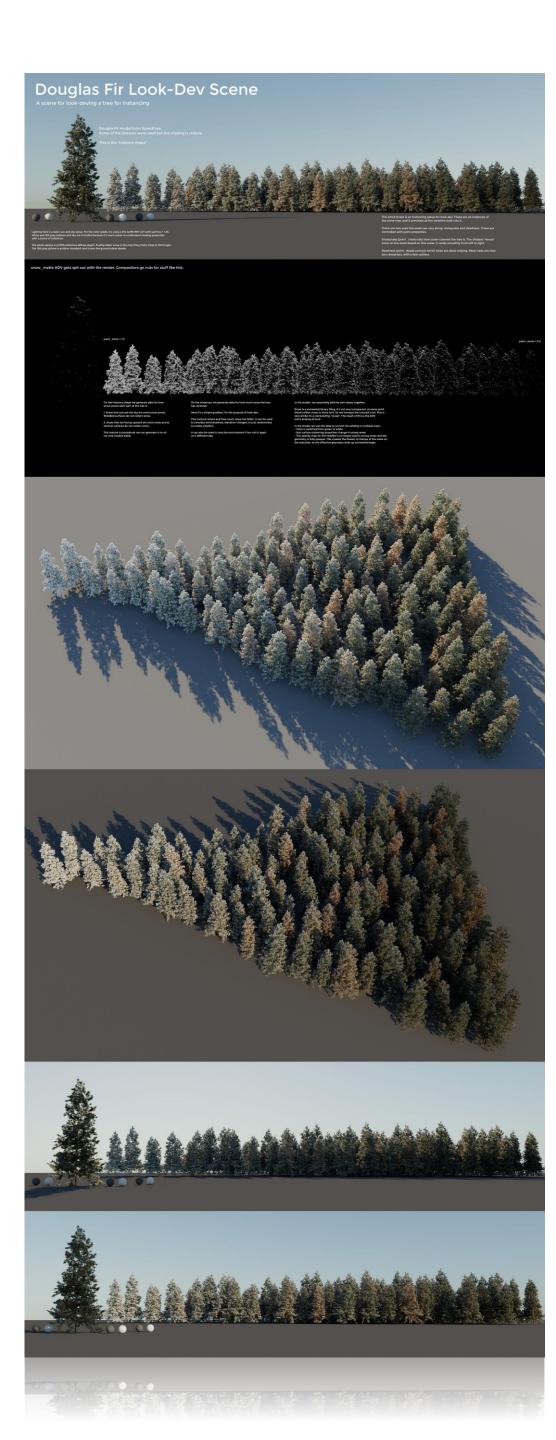
BIFRÖST I World Building

Creating lots of assets



BIFRÖST | Build environments easier



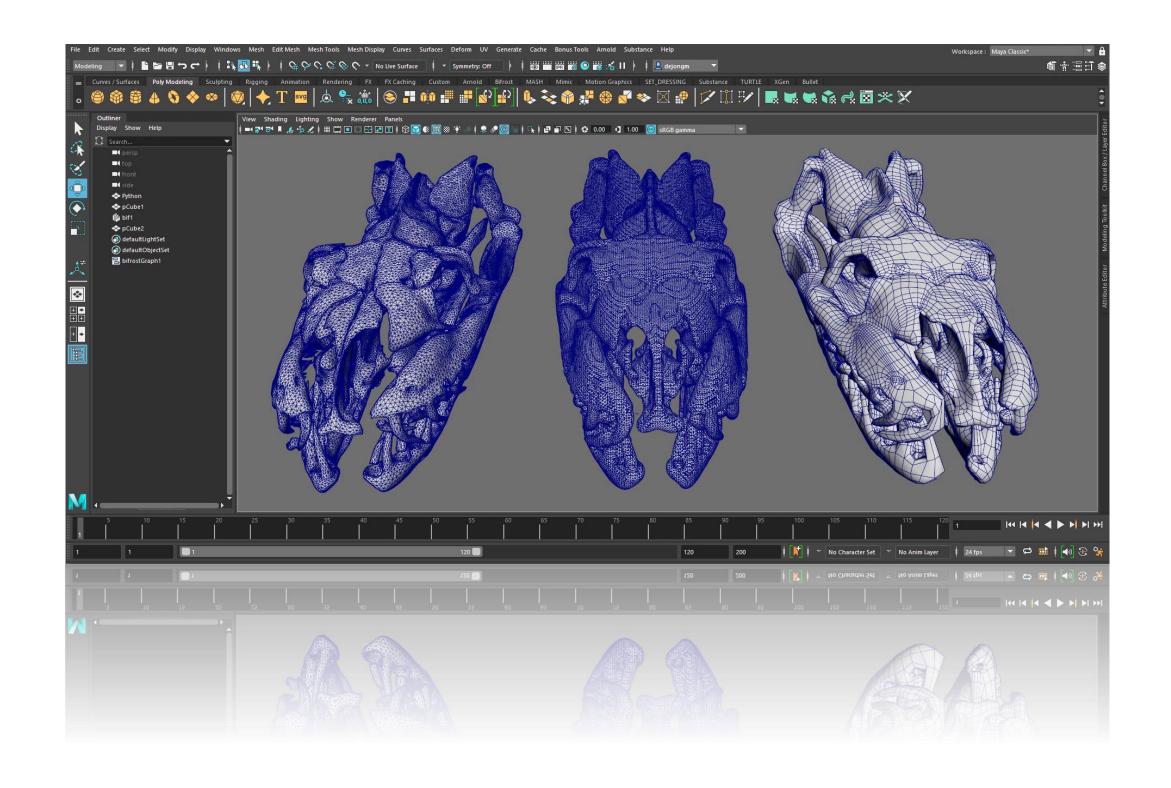


BIFRÖST | Create Assets

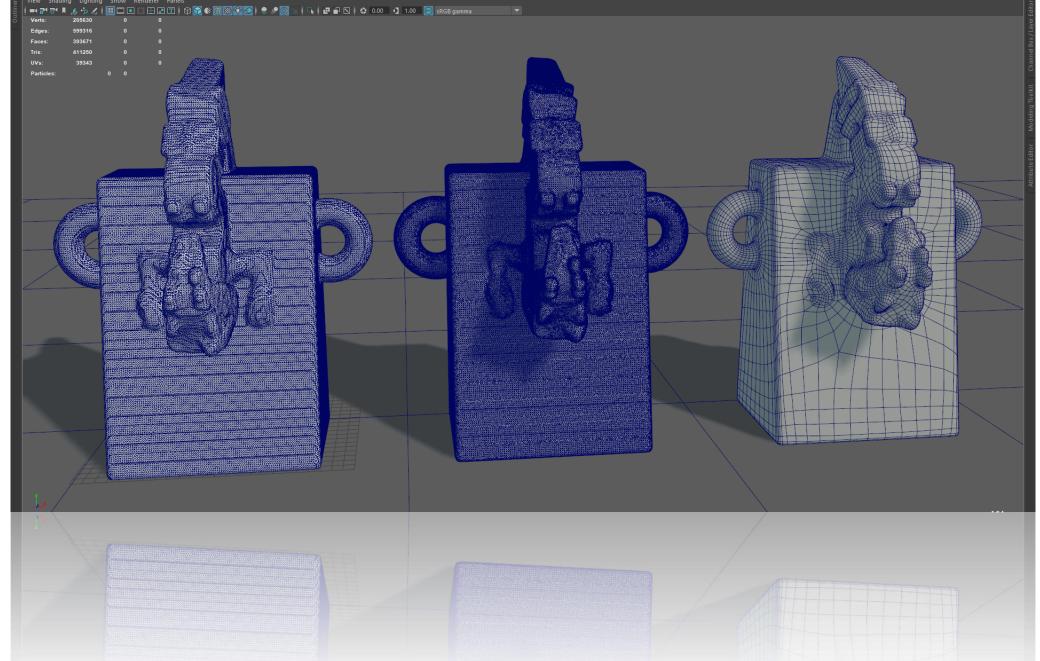
- Building an L-system in Bifrost
 - Support for angular and length noise
 - Twisting and twist noise
 - Rule-based leaf generation and growth
 - Procedurally edit



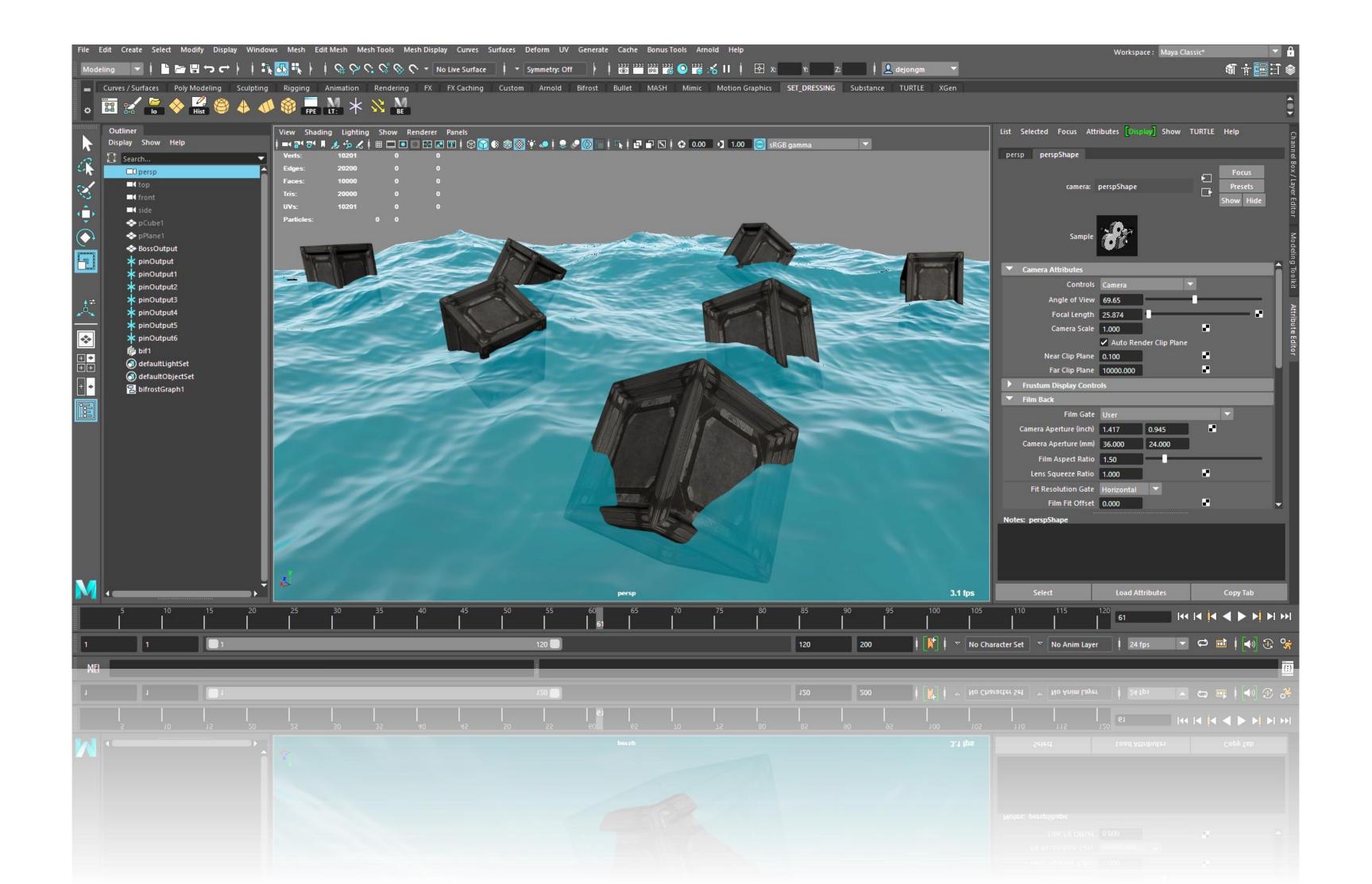
BIFRÖST | Modeling Operations





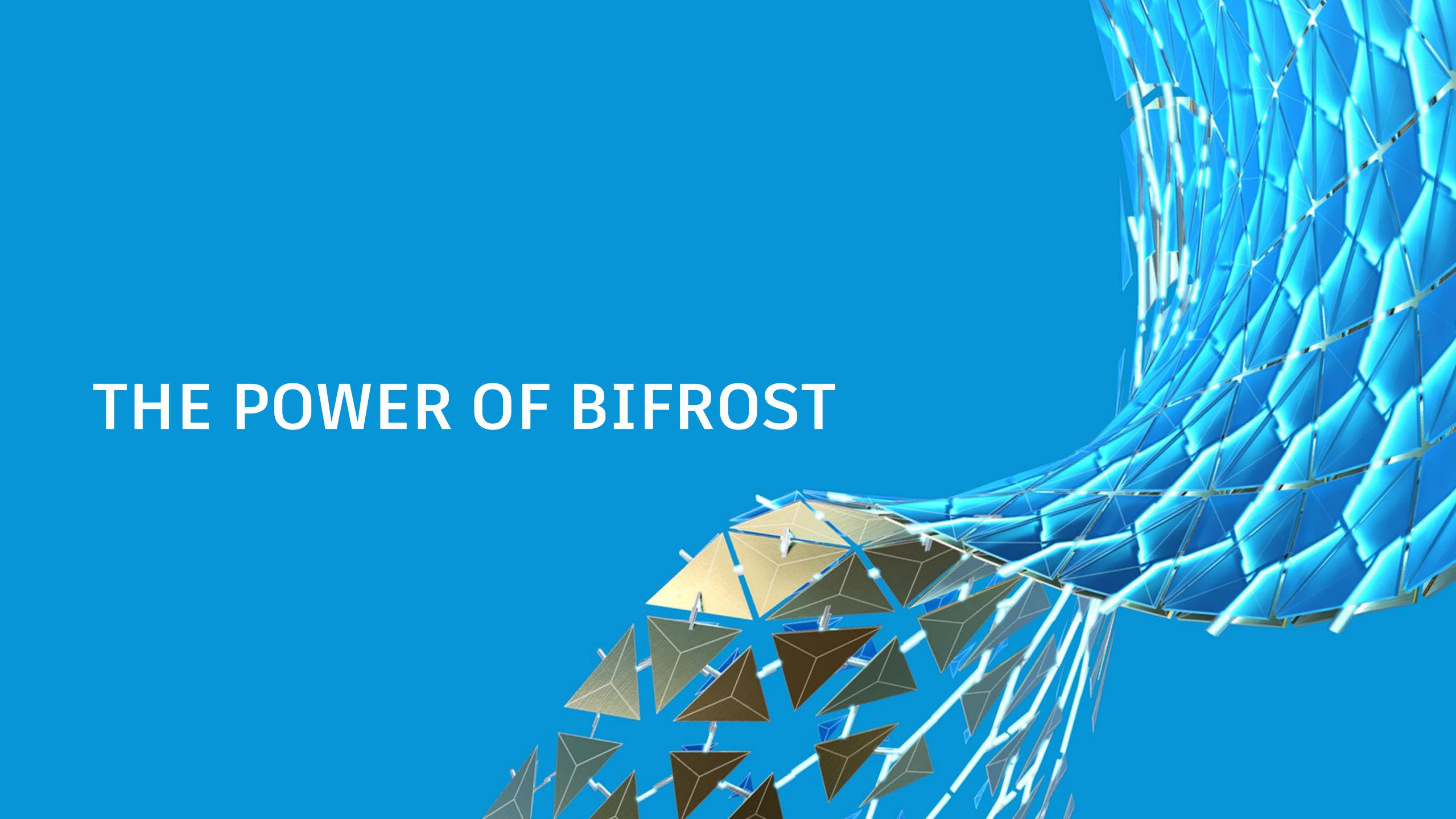


BIFRÖST I Combine with Maya and more

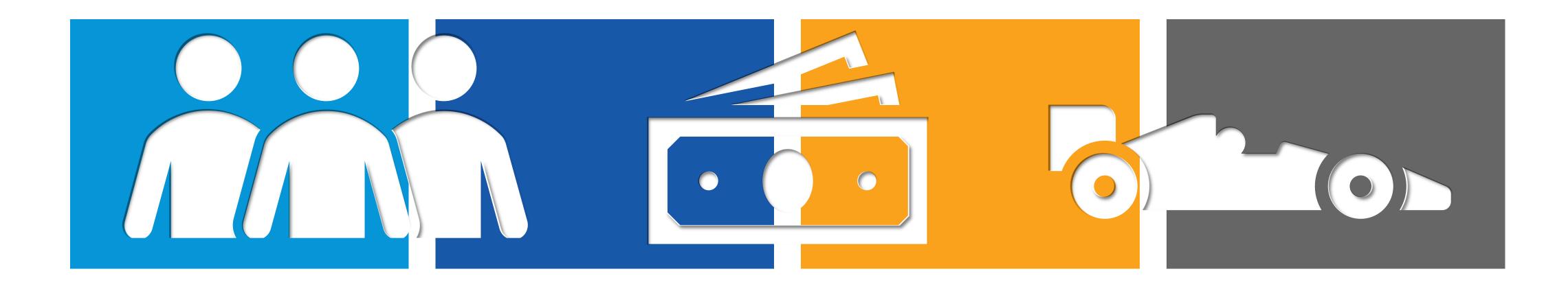








BIFRÖST

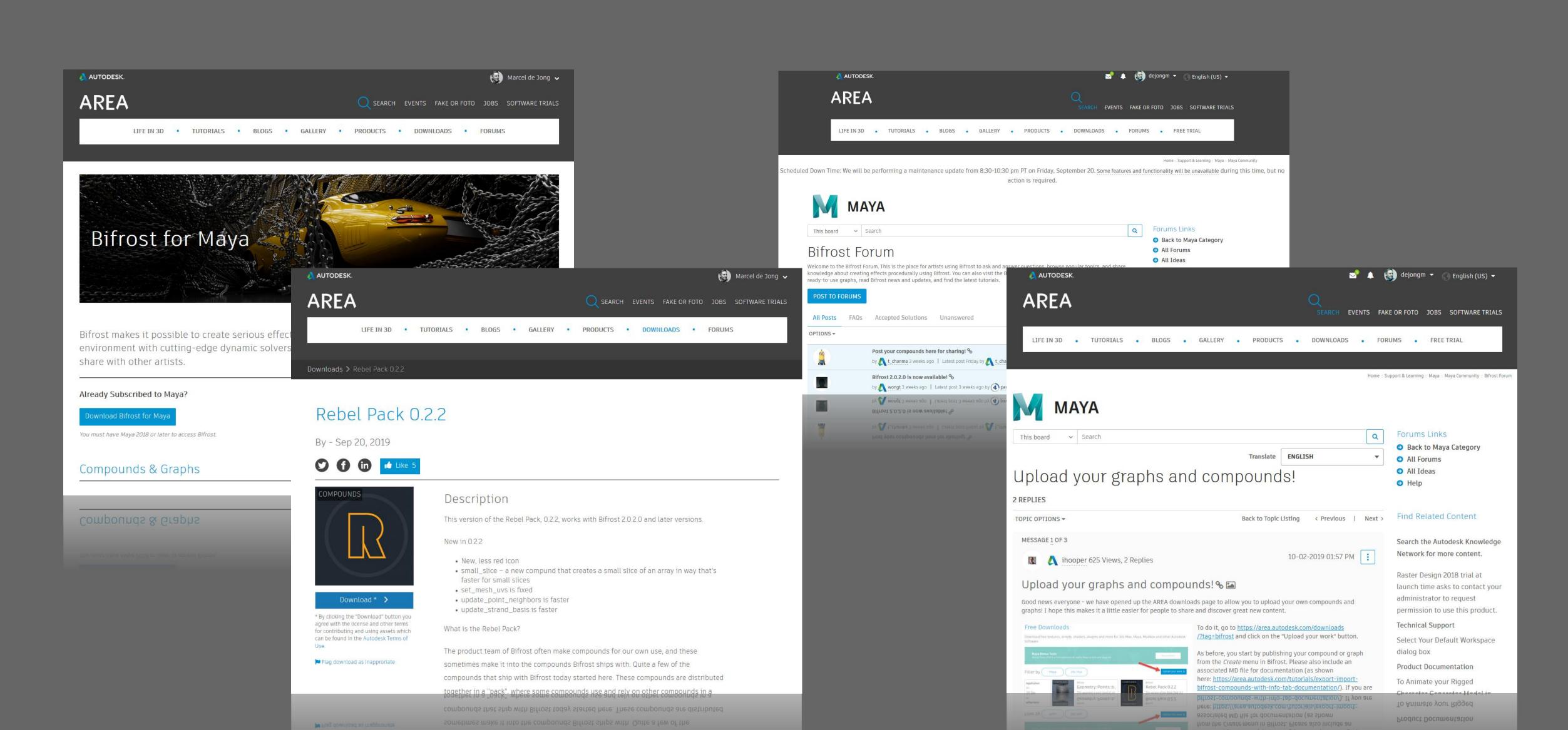


Collaborate

Reduce Costs

Go Faster

BIFRÖST | Resources



BIFRÖST | Resources

https://beforesandafters.com/2019/11/18/a-bifrost-journey/

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A BIFROST JOURNEY



HOW A CALL TO HELP DELIVER THE BIGGEST FILM IN THE WORLD CHANGED EVERYTHING FOR MARCUS NORDENSTAM.

BIFRÖST | How Much?

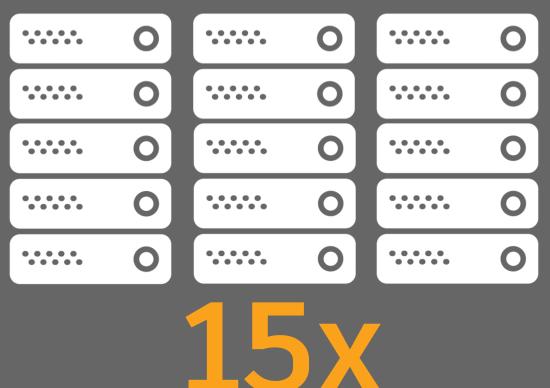
Bifrost is free with your active subscription of Maya (2018 or later)











BIFRÖST | Processing large scale simulations



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