

Alias Procedural and Automated Workflows for Industrial Design

Phil Botley

Alias Product Manager



Sketchbook/Alias/Dynamo/VRED

Daniel Wright – Technical Specialist





Daniel Wright.

10 years Industry Experience

Polygon Modelling, Surfacing Modelling, Animation and Viz

Modelling and Movie creation in Agencies for Automotive

5 Years @ Autodesk



Autodesk Design Portfolio

Industry leading sketching,
modeling and visualization
tools

- ✓ Sketchbook
- ✓ Alias
- ✓ VRED

Alias® 2021 industrial design software introduces new SUBD and immersive VR sketching tools to expedite design themes and Shotgun project management software to help creative teams focus on important tasks.





AUTODESK®
SKETCHBOOK®



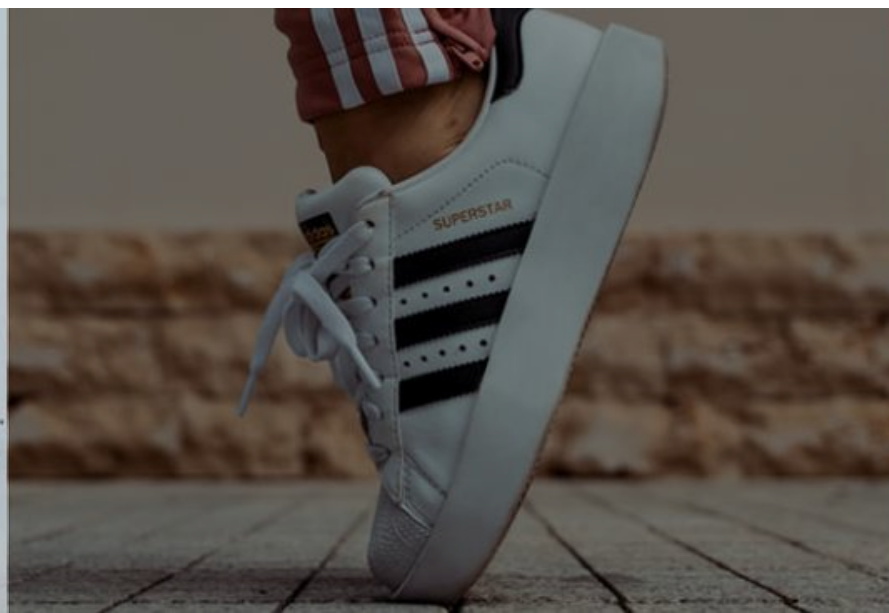
AUTODESK®
ALIAS®



AUTODESK®
VRED™

Where does ALIAS Belong?

Where your Ideas need to be brought to life





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SketchBook drawing and painting software provides designers, architects, and concept artists the tools to sketch ideas quickly and create beautiful illustrations.

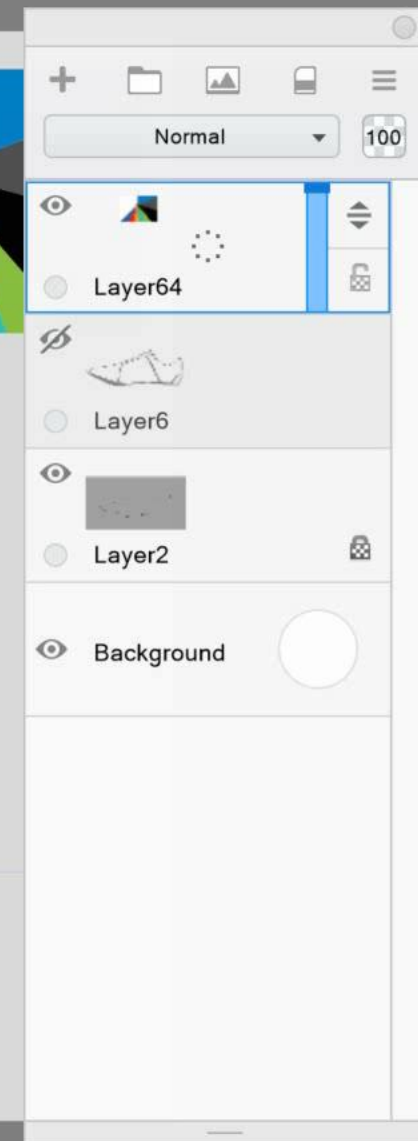
- **For the architectural professional** who creates, iterates, and refines ideas prior to a CAD or BIM workflow
- **For the product or automotive designer** who has a hand drawn and sketch-intensive design workflow
- **For the concept artist** who rapidly explores and iterates on ideas
- **For the storyboard artist** who needs a natural-feeling, core drawing tool to accelerate story visualization



2003



2021





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ALIAS®



Industrial design software for sketching, concept modeling, surfacing, visualization. Alias offers a unified hybrid modeling solution with integrated NURBS & SUBD modeling paradigms.

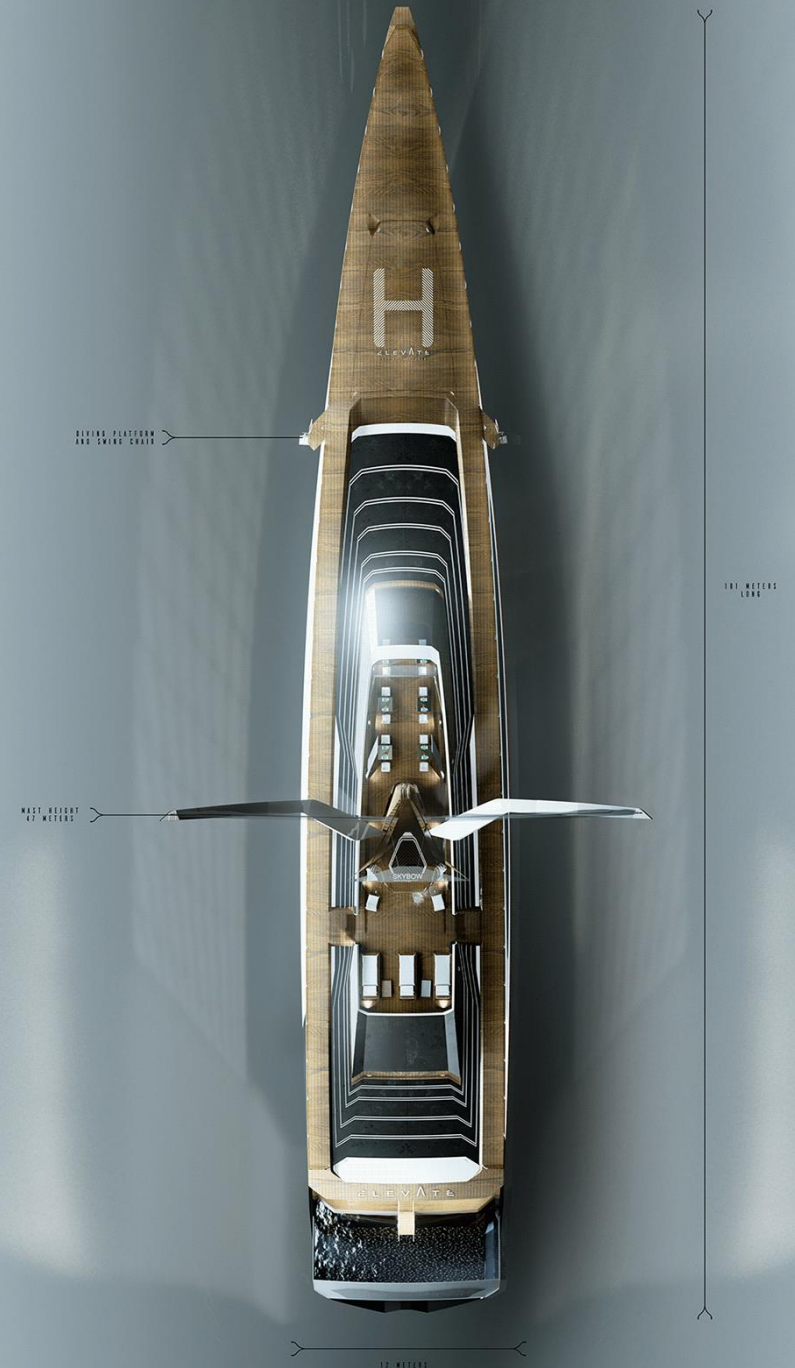
- **For the concept artist** who rapidly explores and iterates forms
- **For the product or automotive designer** who build concept models.
- **For the surfacing professional** who creates, iterates, and refines Class A data

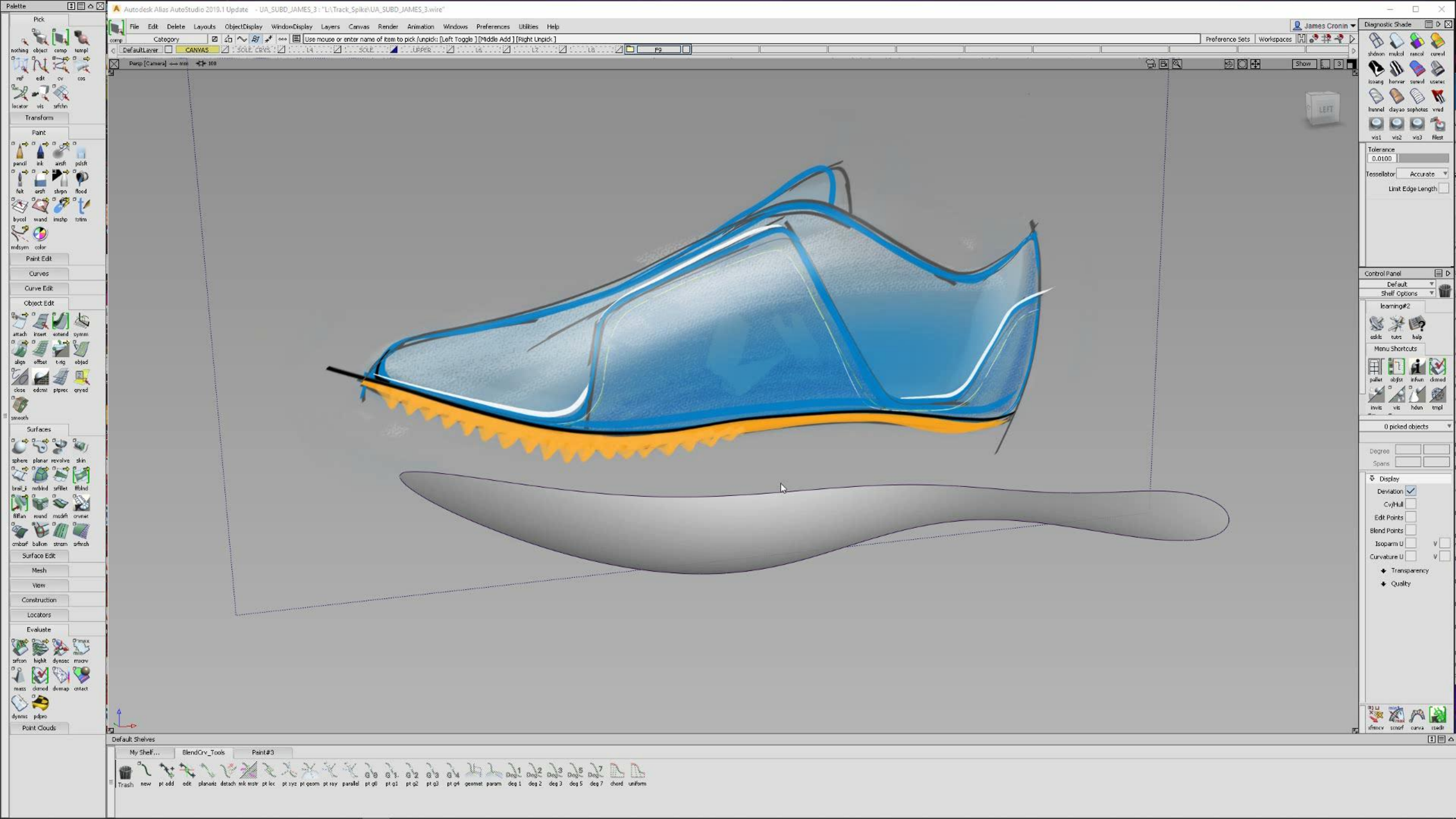


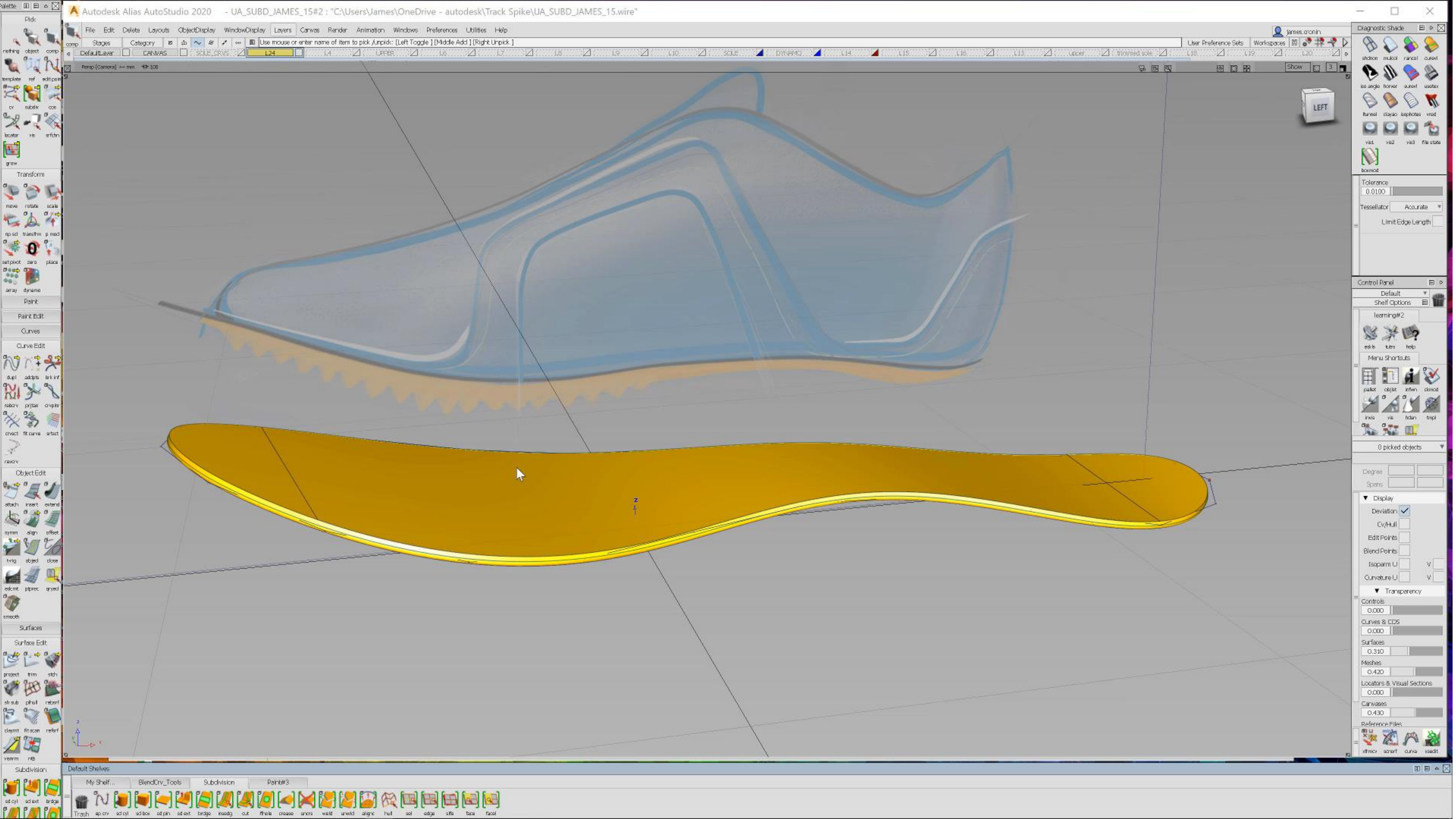
1985

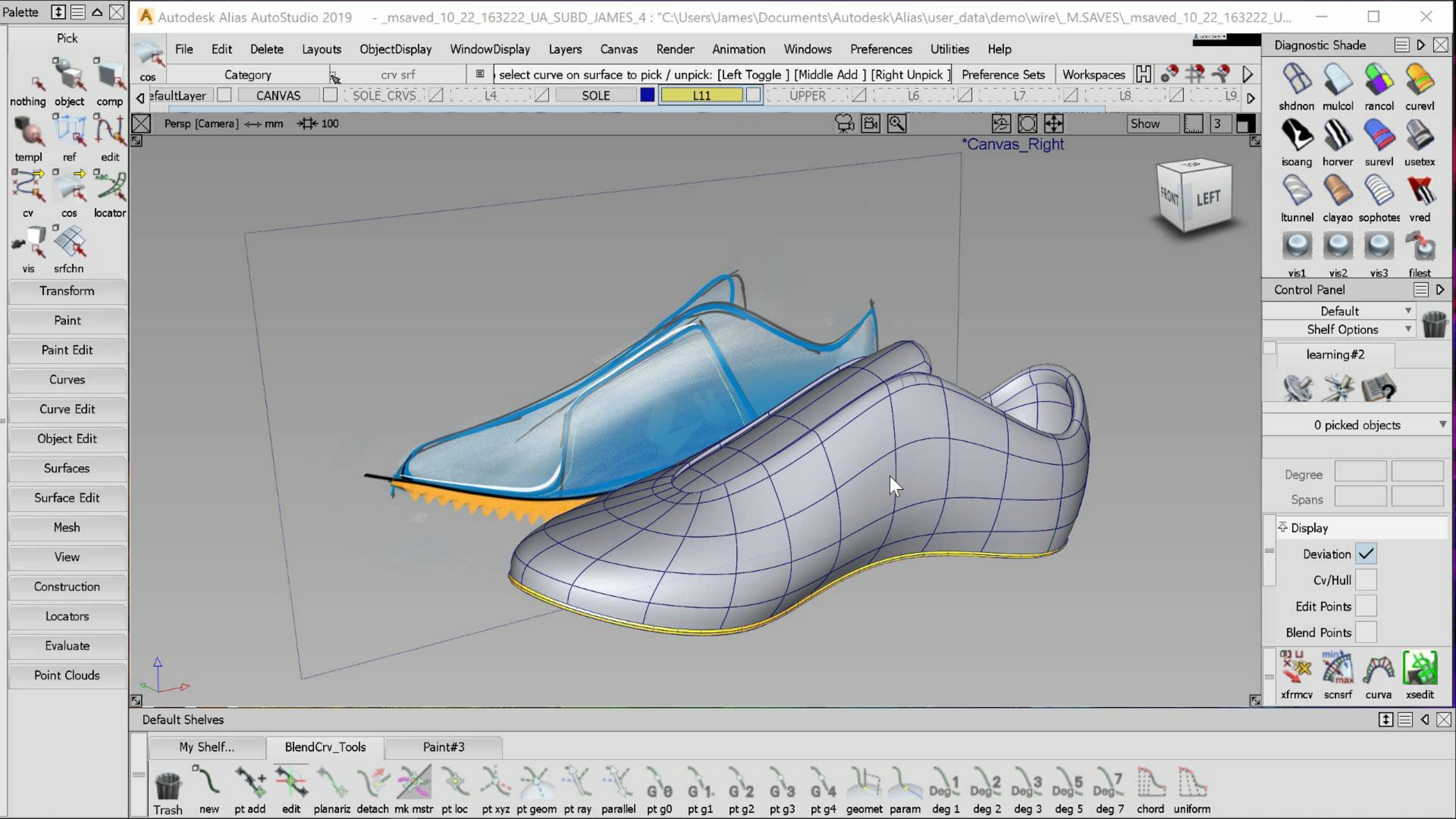


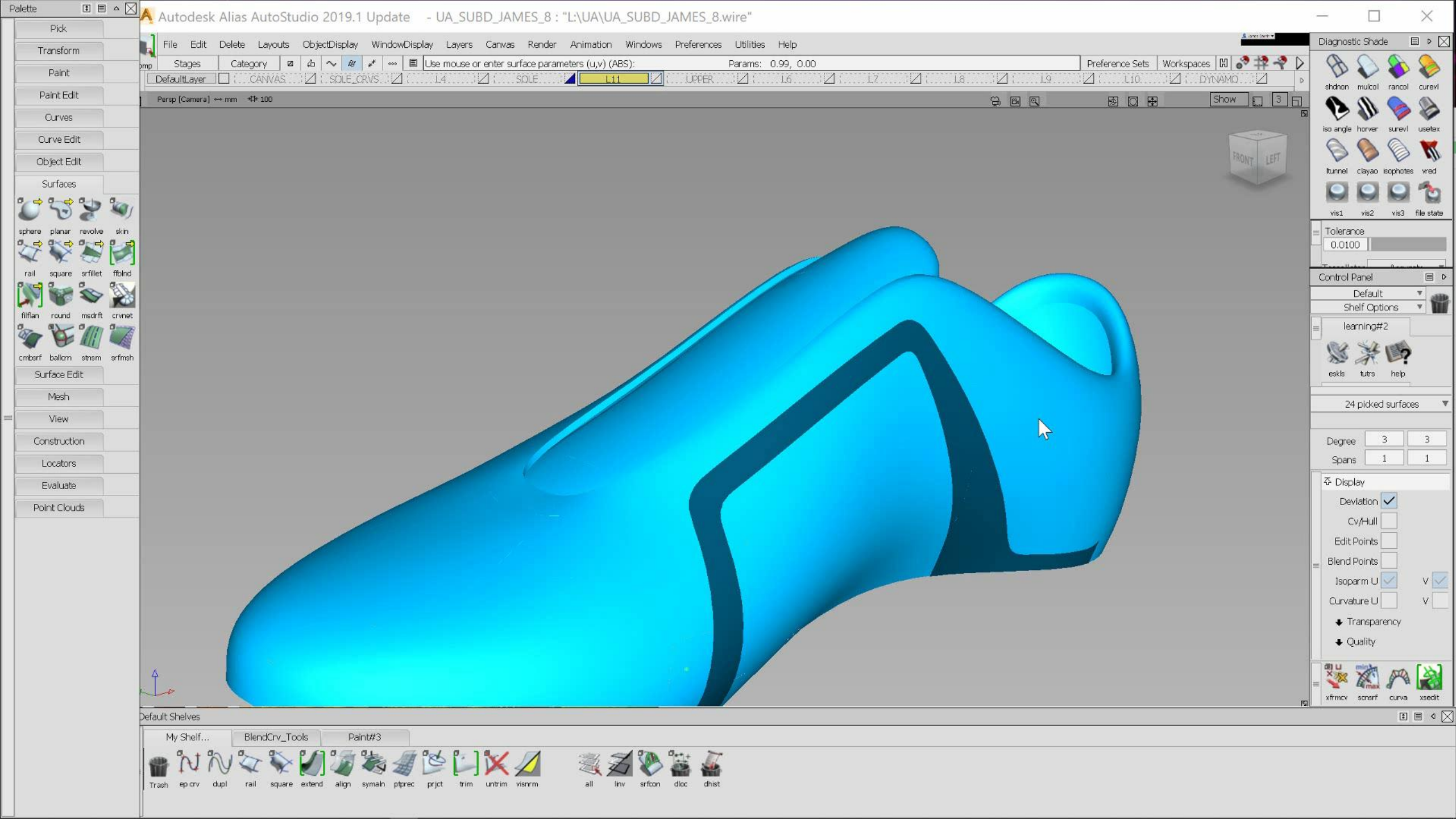
2020













Dynamo



Dynamo

Dynamo is a programming environment that enables designers to create visual logic to explore parametric conceptual designs and automate tasks.

- Create custom algorithms to process data and generate geometry.
- Drive design changes via parametric constraints.
- Create and reuse computational templates across the design and surfacing teams, capturing and reusing surfacing language.



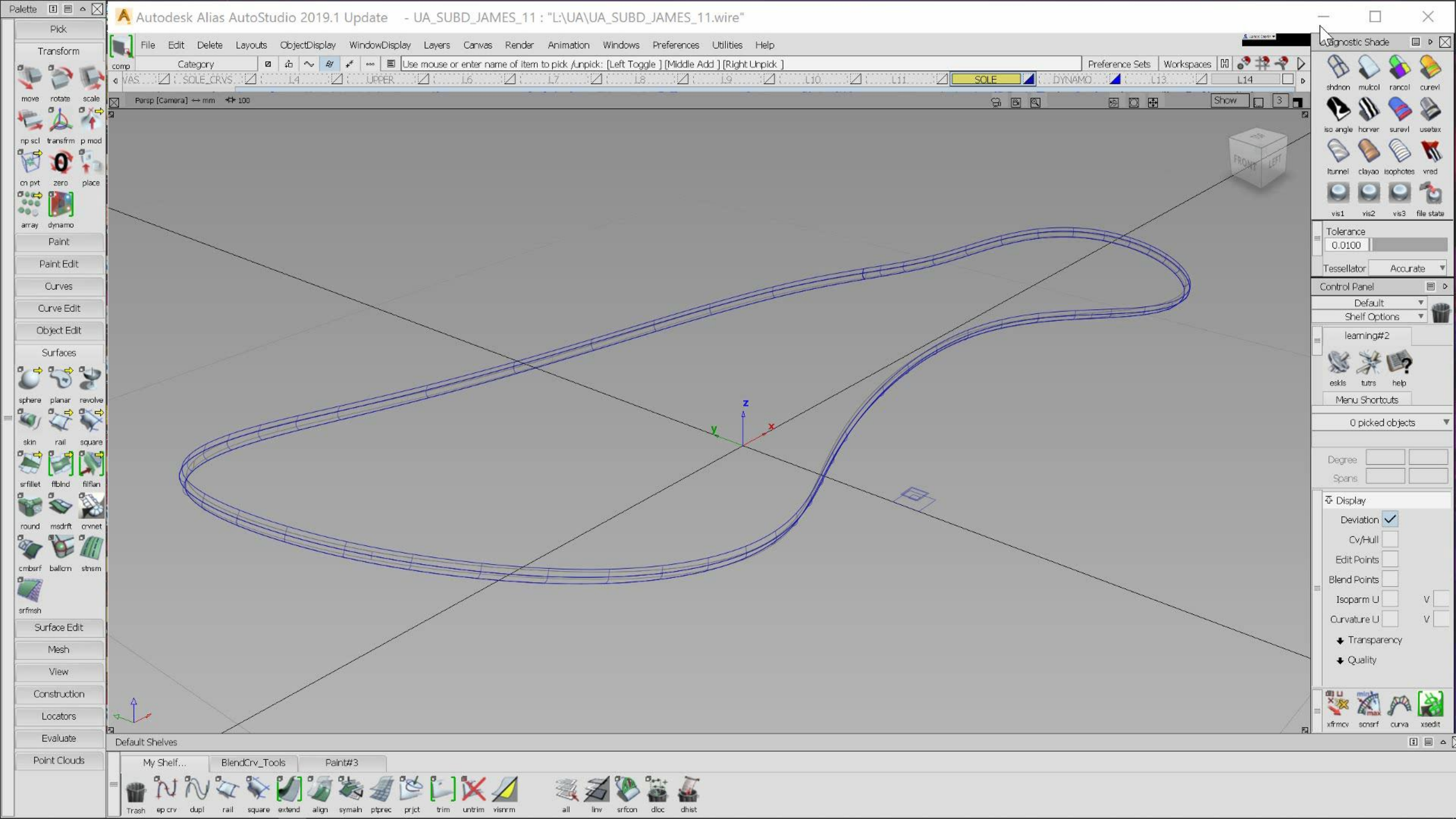
Dynamo

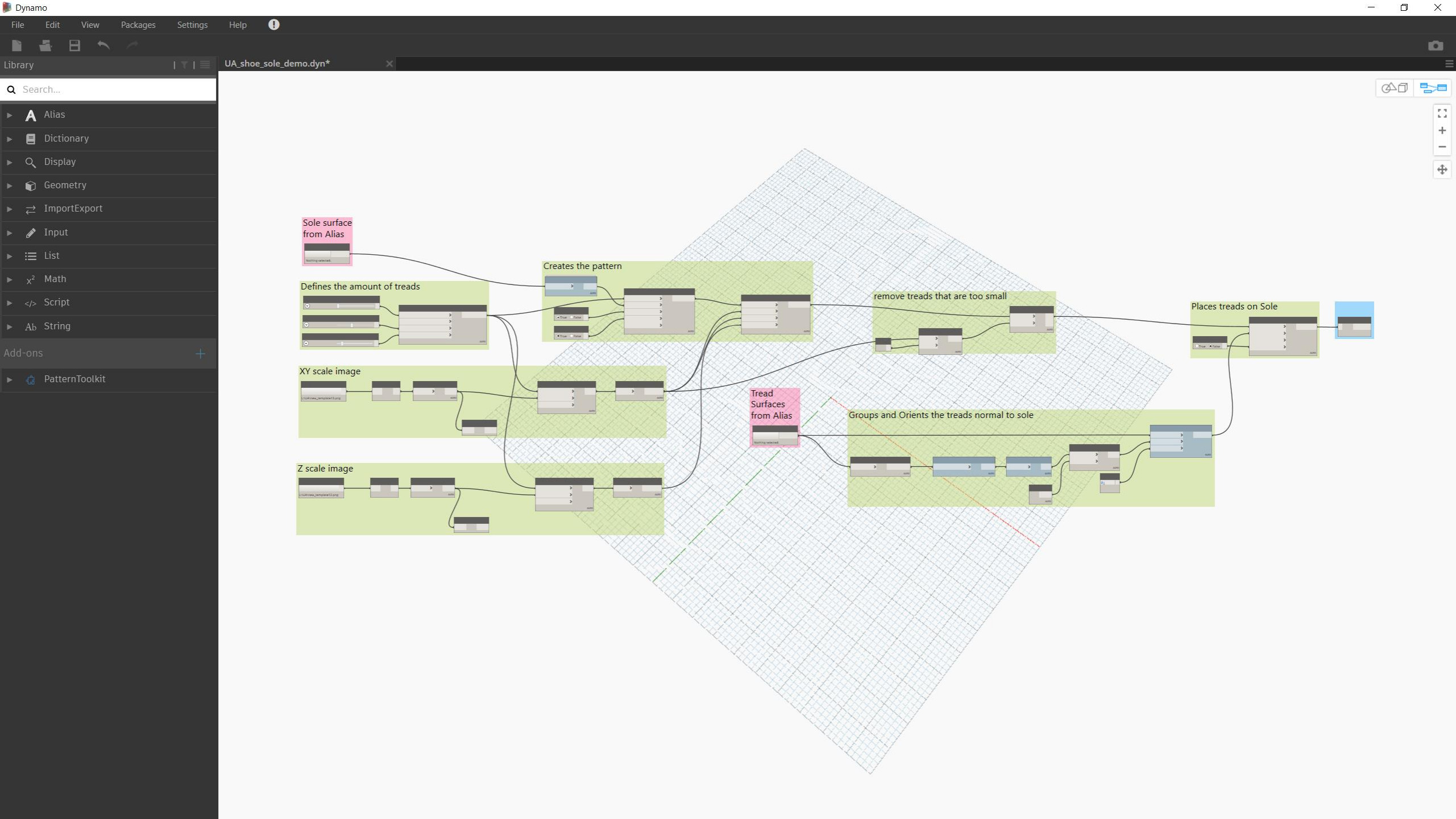
2013



2021



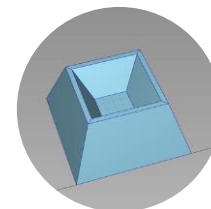
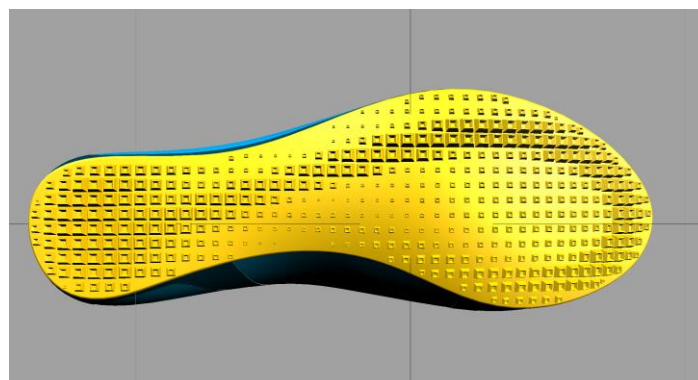




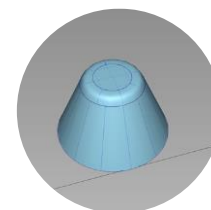
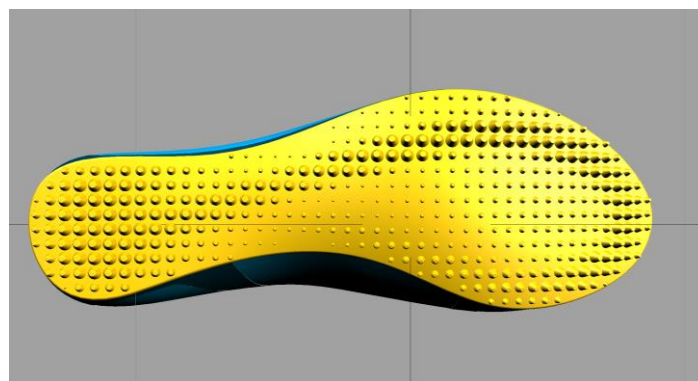
What's Possible?

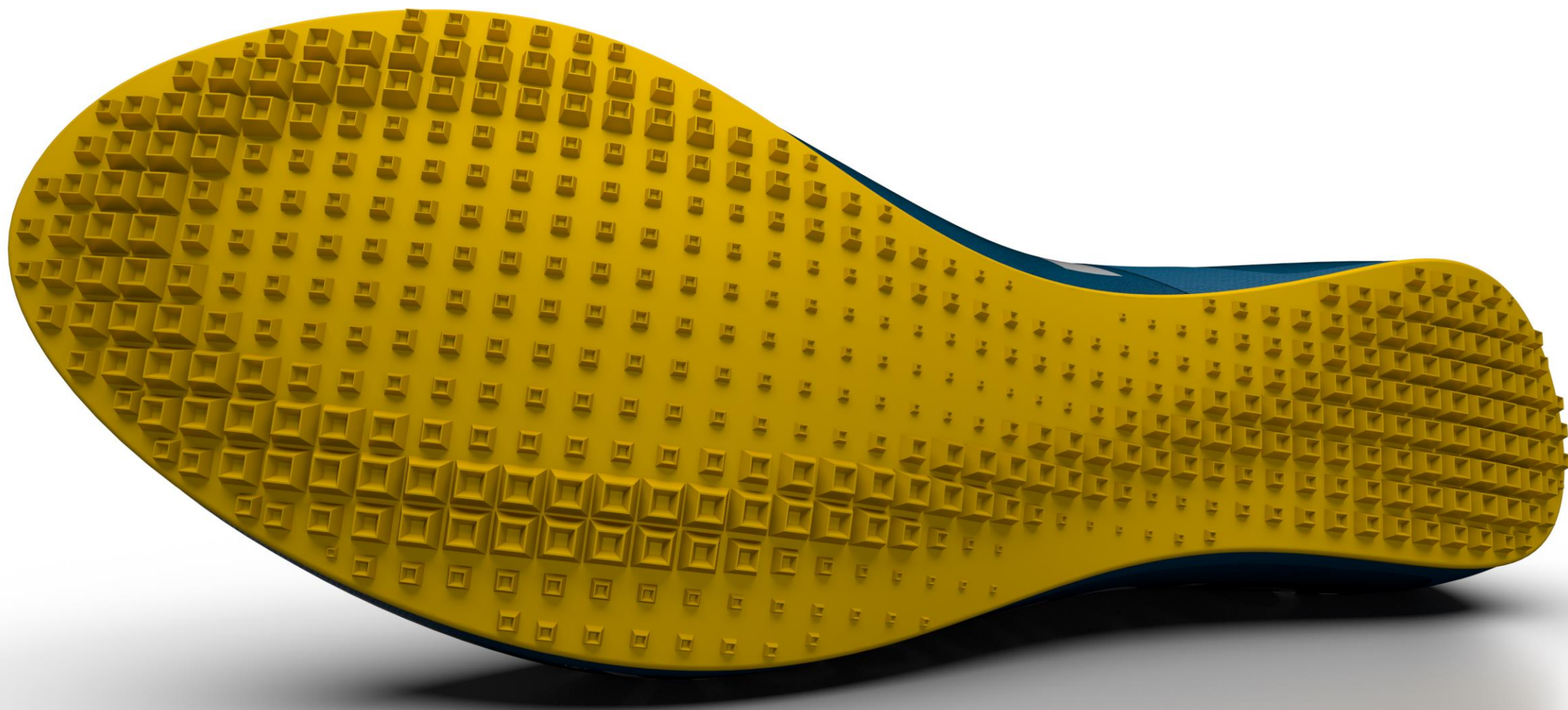
Each driving shape and be combined with the defined surface

Shape 1



Shape 2



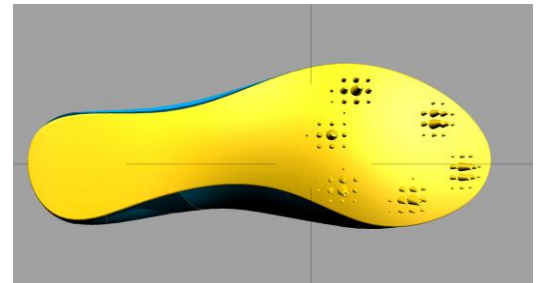
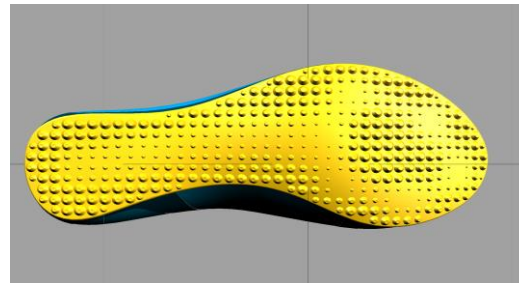
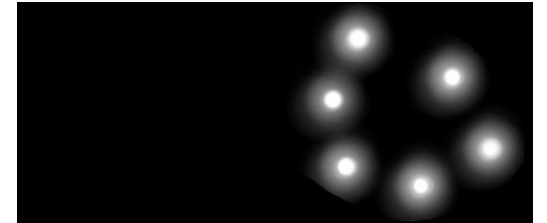
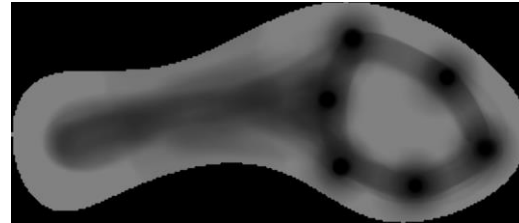
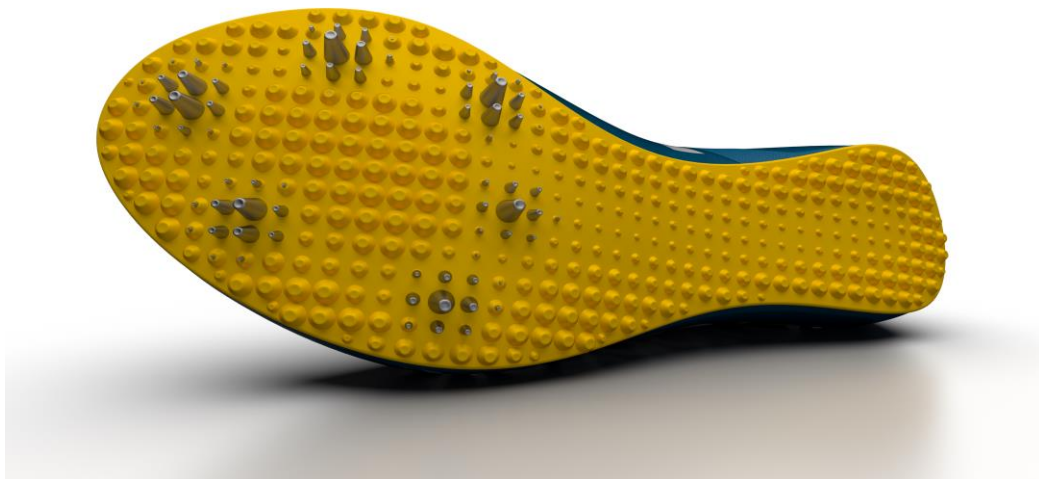


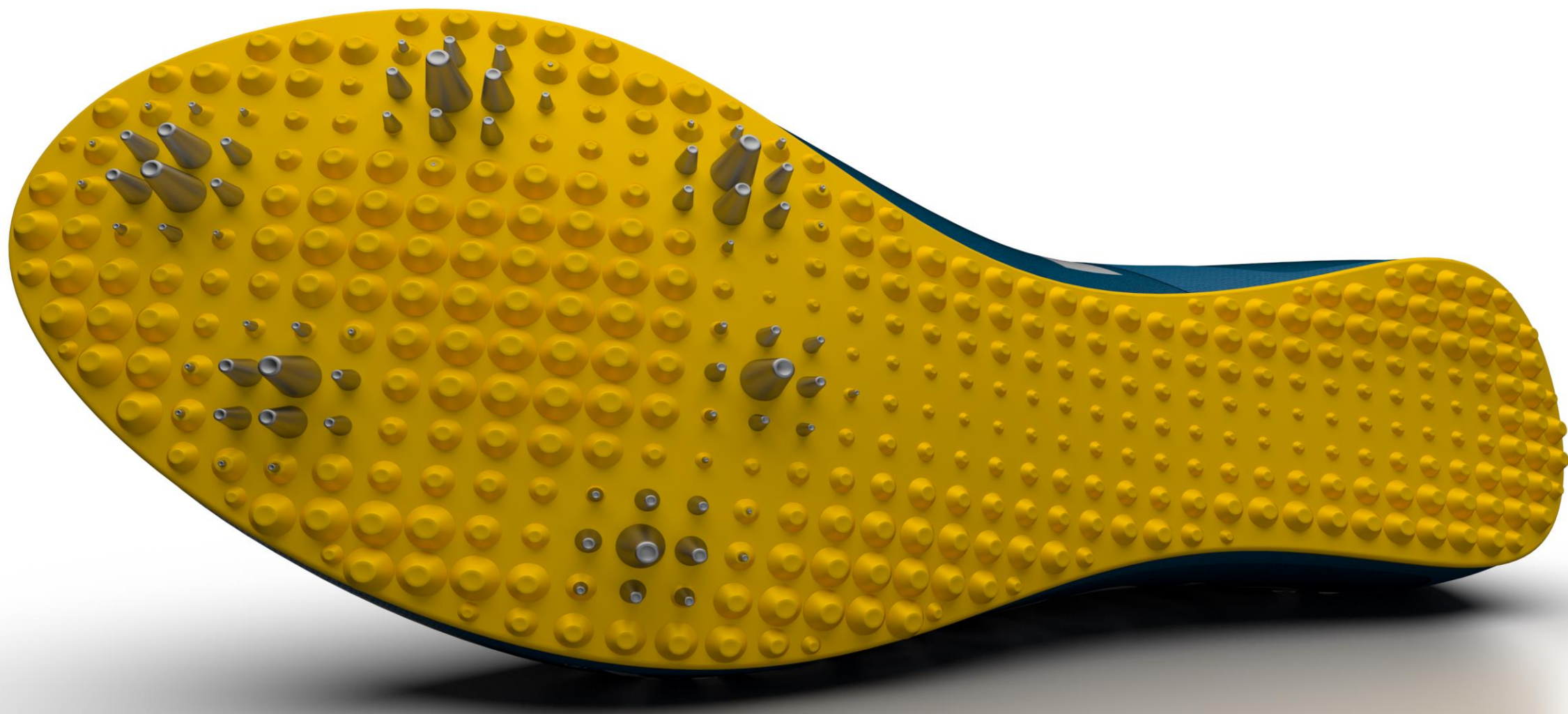




Combine Scripts..

Being able to run and make your own tools gives you endless possibilities







AUTODESK®
VRED™



3D visualization software helps designers and engineers create product presentations, design reviews, and virtual prototypes using interactive raytracing and analytic render modes.

- **Product Renderings**
- **Design Reviews**
- **Virtual Prototypes**
- **Immersive Collaborative VR**

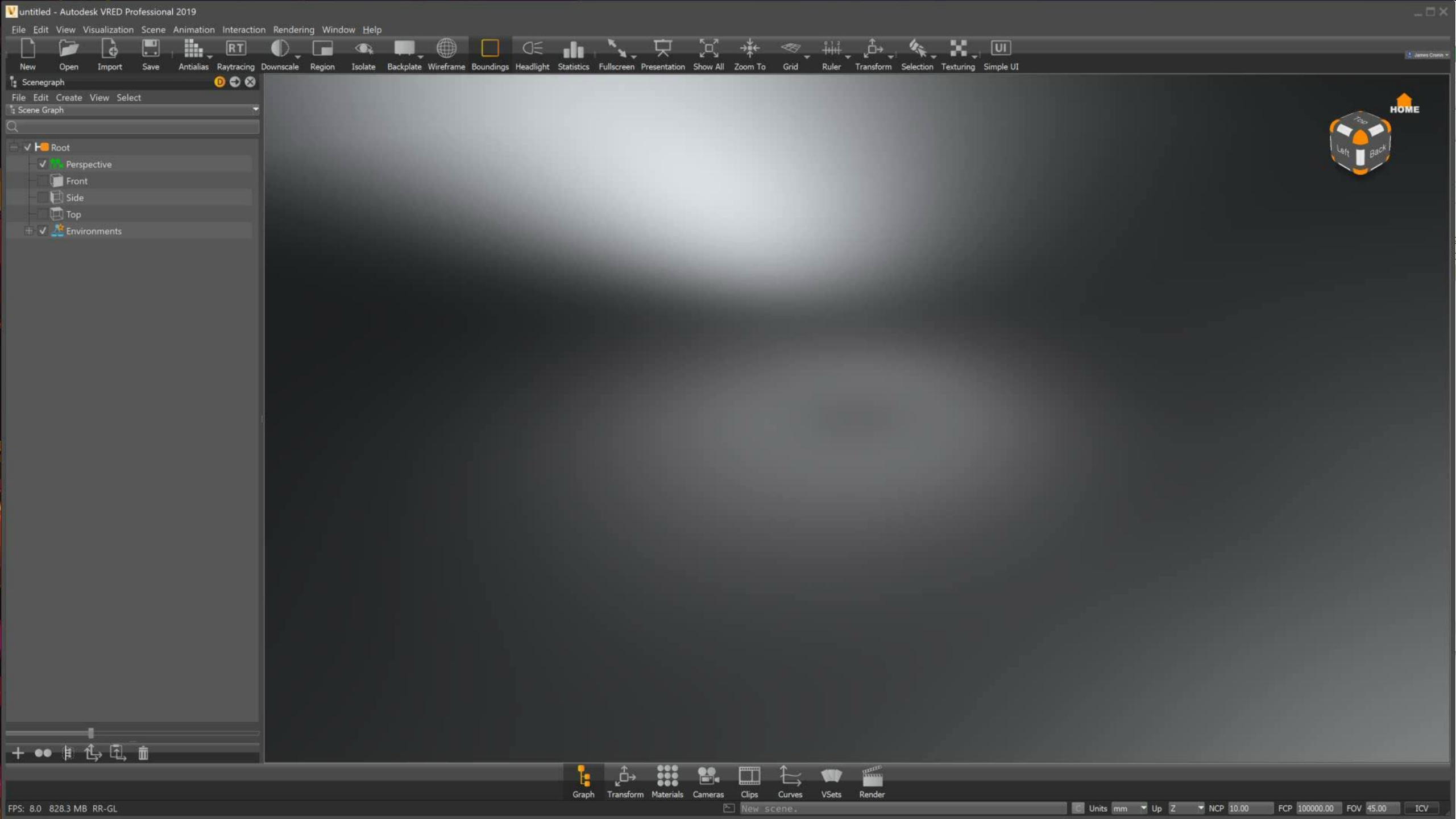


2008



2020









Variants

With VRED its possible to move quickly in the visualization phase to different ideas in **realtime**





Thank you.

Open to Q&A



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Make anything.

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