



Metal Material Mastery

July 28, 2016

Richard Funnell

Topics

- **How Metals work**
- **Best practices for modeling**
- **KeyShot Material Properties:**
 - **Metal**
 - **Metallic Paint**
 - **Anisotropic**
- **Working with Textures**
 - **Brushed**
 - **Machined**
 - **Worn**
- **Lighting techniques for Metals**
 - **Tips & tricks**
- **Q & A**





**Metal looks the way it does because of the specular color
& what's reflected.**

HDRI Environment

Polished Chrome

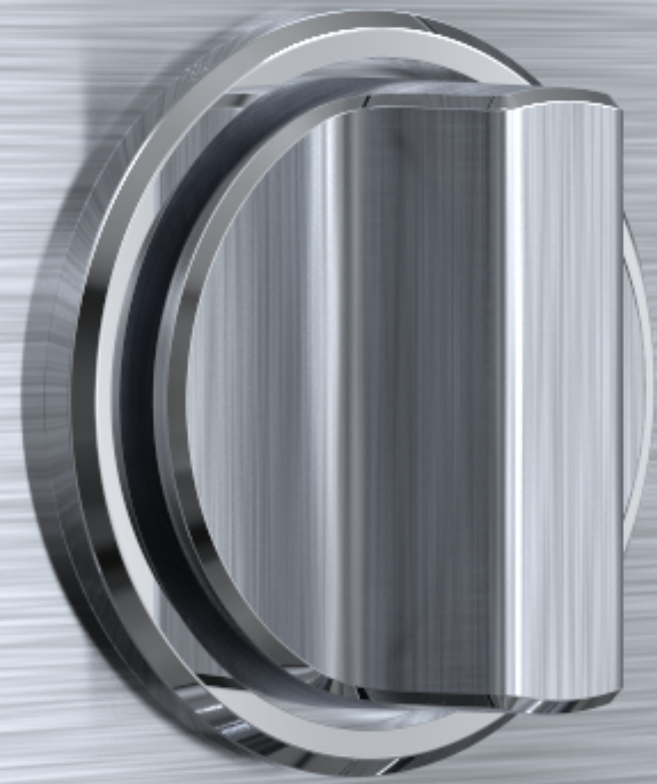
Textured Metal

**Material + Lighting
Environment = Result**

Geometry is still important



Rounded Corners



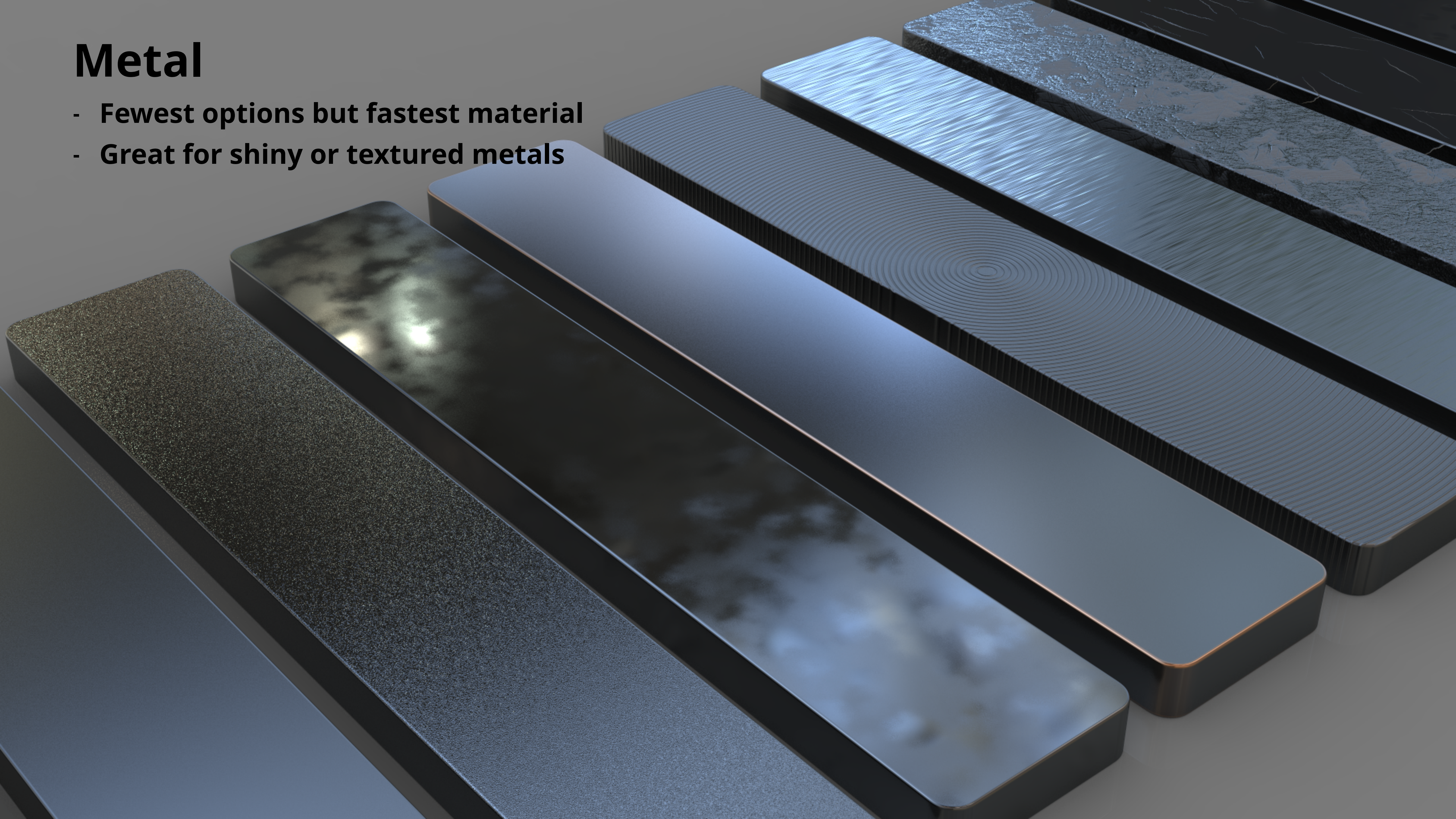
Sharp Corners



Material + **Lighting**
Environment = **Result**

Metal

- Fewest options but fastest material
- Great for shiny or textured metals



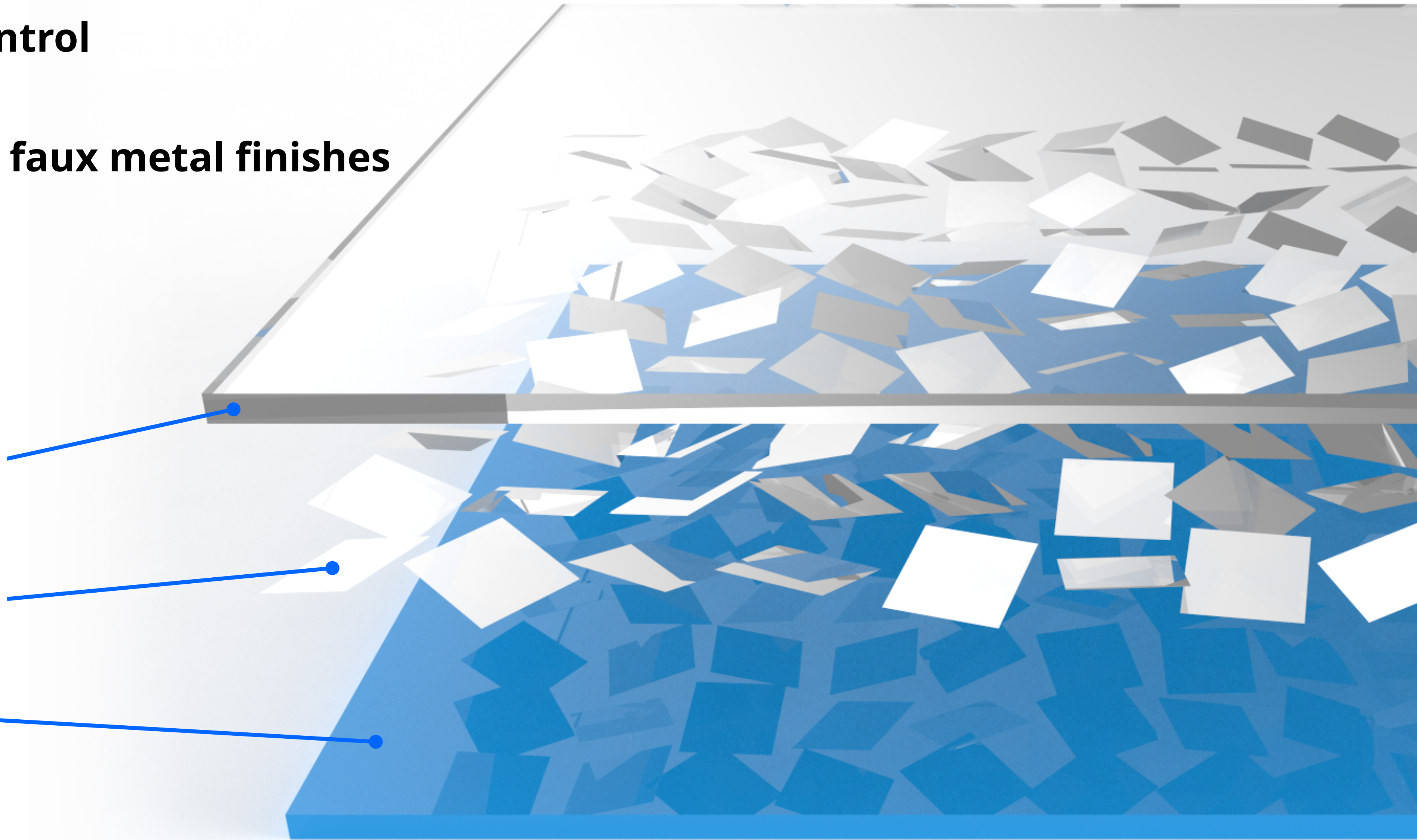
Metallic Paint

- More options & control
- Layered material
- Great for coated & faux metal finishes

Clear-coat

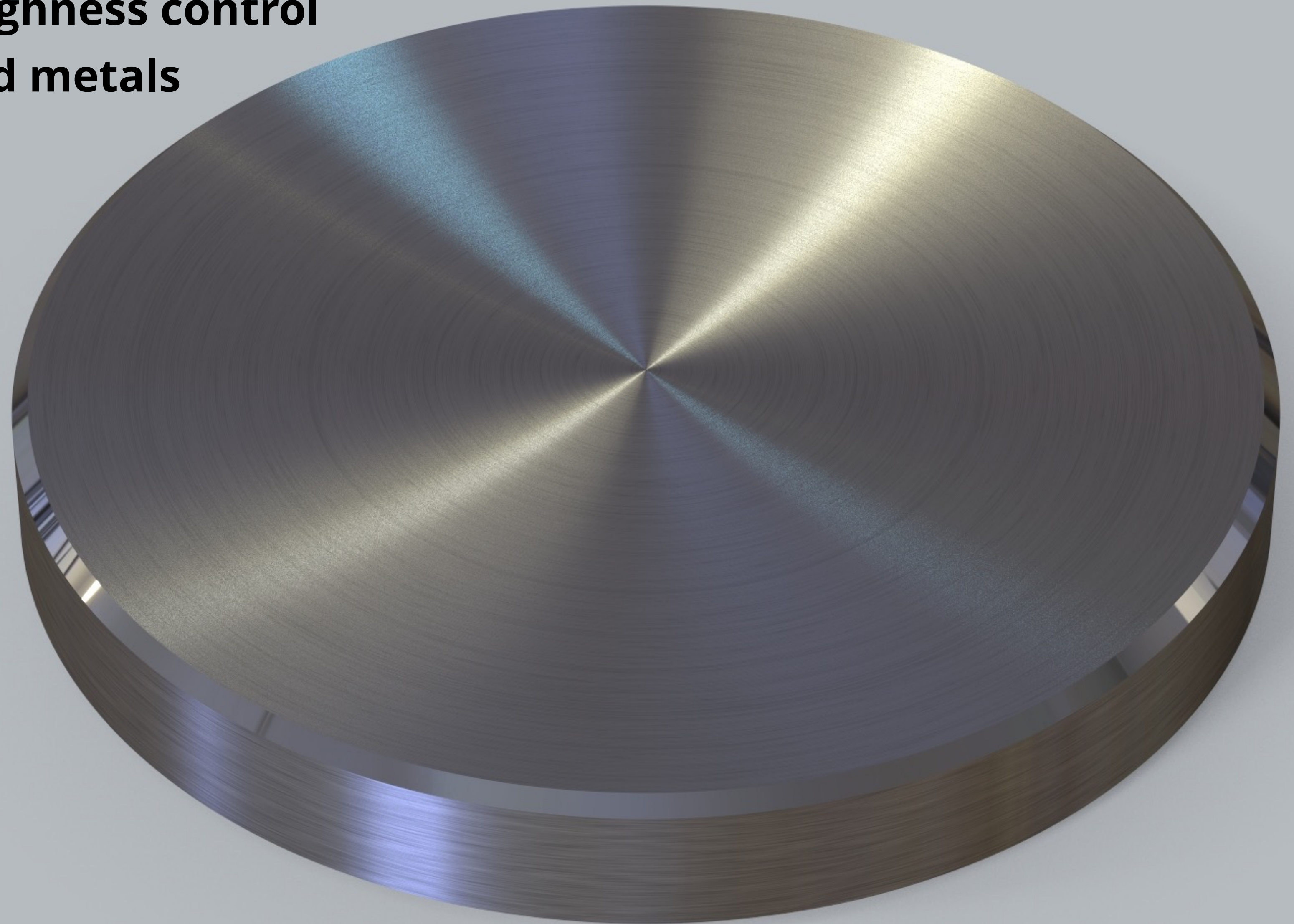
Metal Flake

Base Paint



Anisotropic (Advanced metal)

- Most control over reflections
- Versatile due to X / Y roughness control
- Best material for brushed metals



Material + **Lighting
Environment** = **Result**



**Same materials,
different environment**



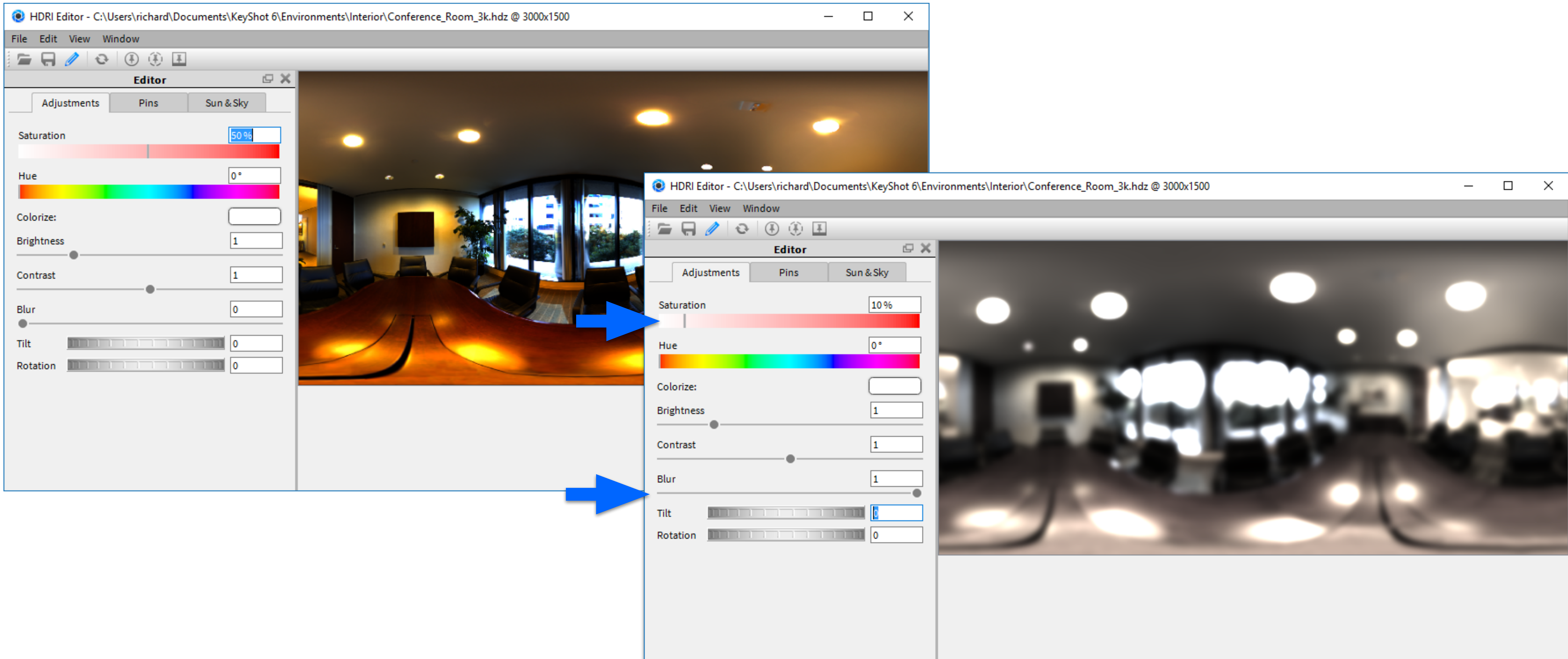
For rendering metals,
lighting is **equally**
important as
material settings.

With KeyShot Pro, the HDRI Editor enables full control over environment lighting.

Use pins to get perfect results



Desaturate & blur image-based HDRI's to quickly improve results





Material + **Lighting**
Environment = **Result**

Questions?

Resources:

- www.keyshot.com/blog
 - How to Render Brushed Metals in KeyShot
 - Roughness Textures
 - The Difference Between KeyShot Roughness and Bump Textures
- www.keyshot.com/forum
- Textures
 - KeyShot Cloud Library
 - www.poliigon.com



John Seymour



Nacho Riesco

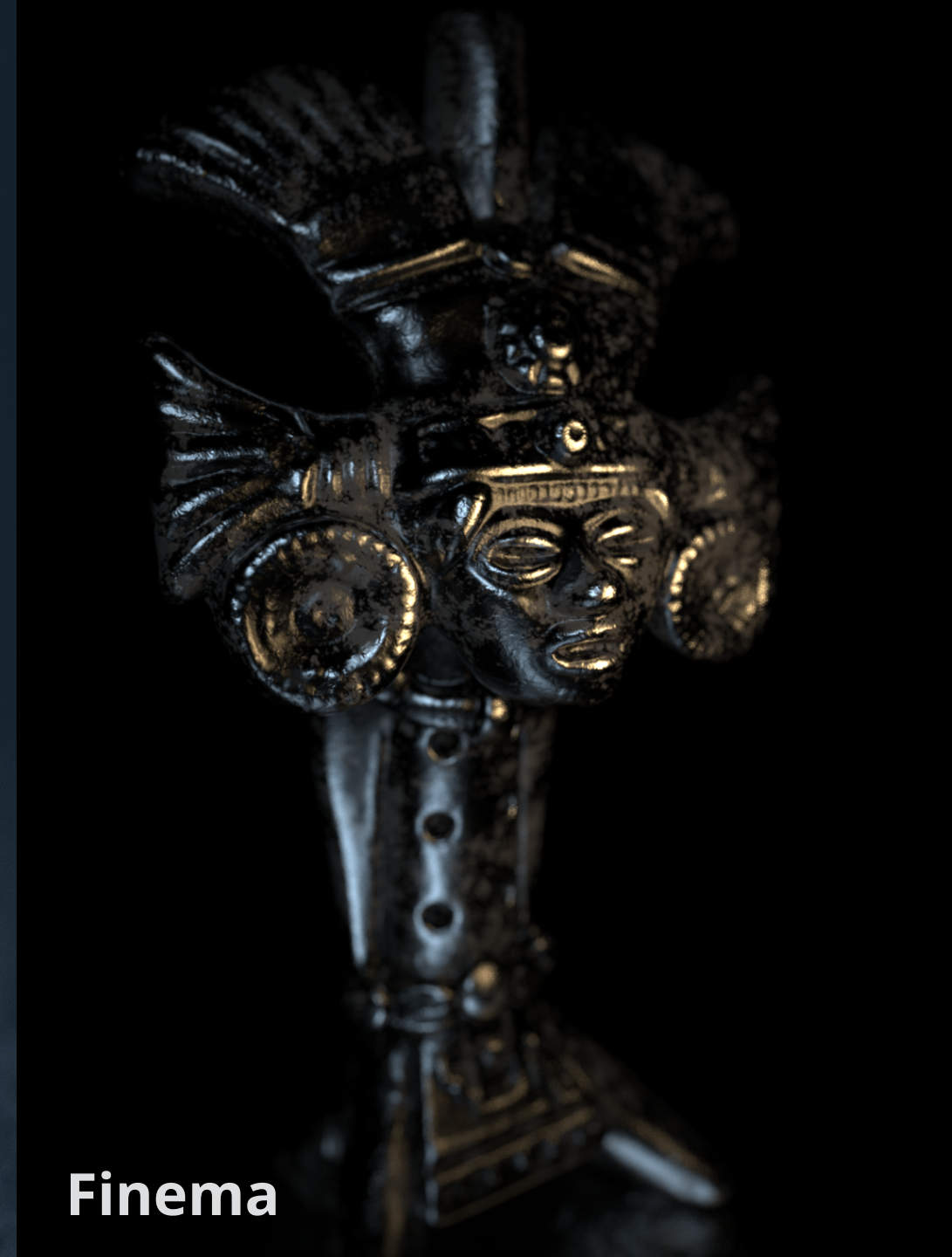
nacho
riesco
organic
jewelry
designs



Esben Oxholm



LM6



Finema

Thank you for watching!

keyshot.com/learning