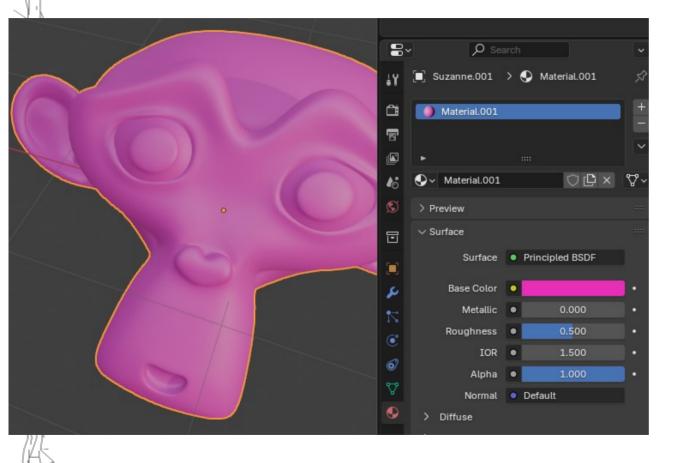


### Outline

- 1 material to 1 object
- 2 materials to 1 object
- Principled BSDF
- Useful tips
- Special shaders
- Lighting

## 1 material to 1 object



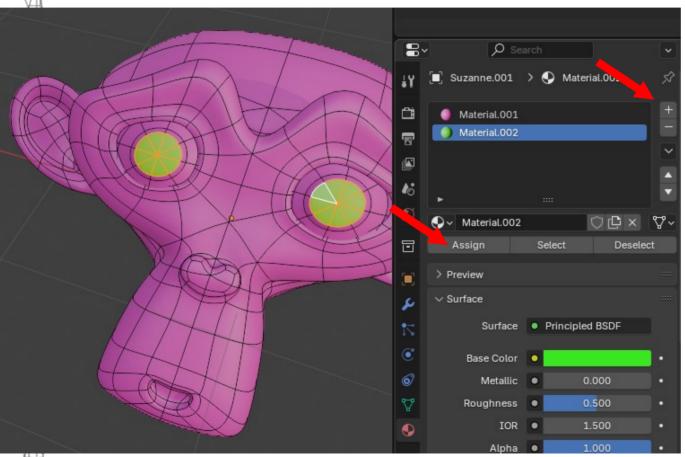


- Select object
- Go to Material options and create a **New** material



## 2 materials to 1 object

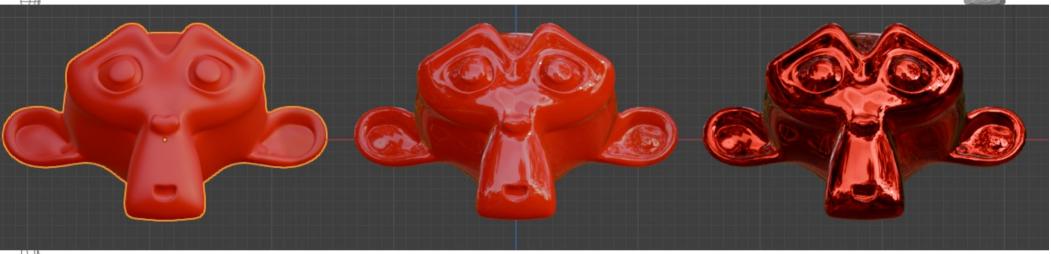




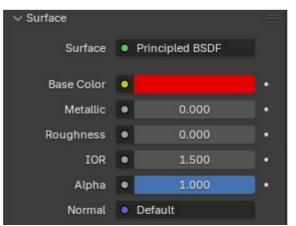
- Add one material to object
- Create a **New (+)** material
- In Edit Mode,
   select faces and
   click **Assign** button

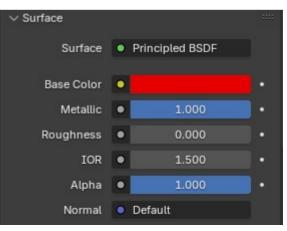
## Principled BSDF basics











## Useful tips



Principed BSDF main values:

Base Color (Overall color of the material)

**Roughness** (roughness of the surface for reflection and transmission)

Metallic (blends between dielectric and metallic )

IOR (Index of refraction specular reflection and transmission)

*Alpha* (Controls the transparency)

Transmission (for water and glass)

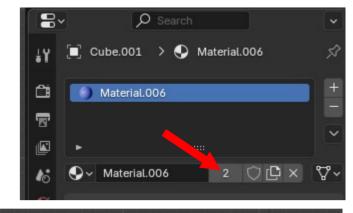
Emission (for light emitting objects)

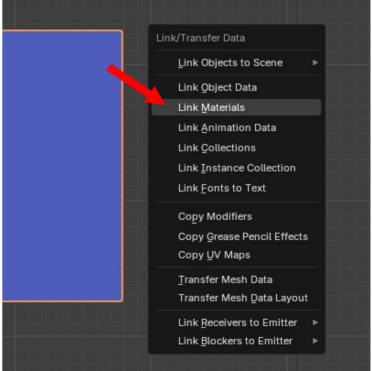
## Useful tips

- One material can be used by many object. Number indicates how many objects are using this material.
- If number is clicked, a new material with same values is created

To copy a material to several objects...

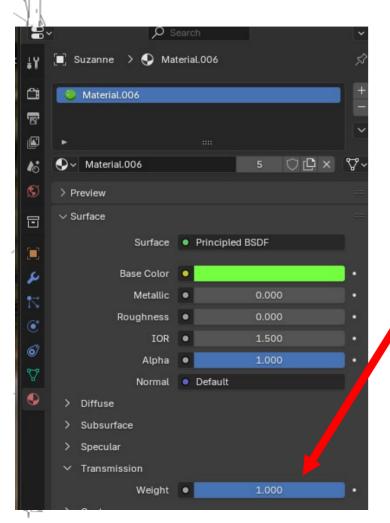
- First select objects. Last selected object is the object to copy material from.
- Press **Ctrl+L** and select Link Materials.





## Special shaders – Glass/water (EEVEE)



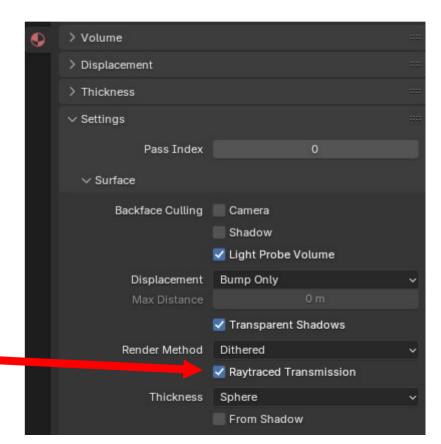


Choose **Base Color** 

Choose IOR

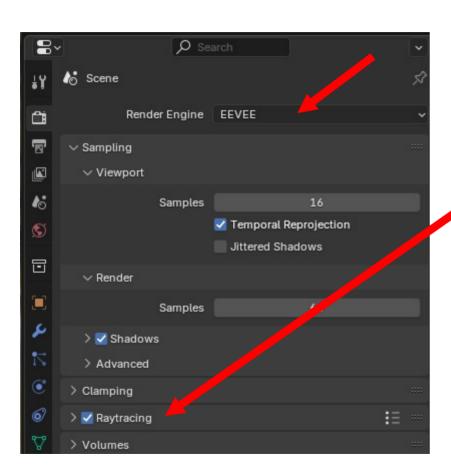
Increase **Transmission**Weight

Check
Raytraced Transmission



## Special shaders – Glass/water (EEVEE)





In render engine (EEVEE) settings, check **Raytracing** 

TIP Cycles doesn't need this settings, you can just use Glass Shader, but rendering is very slooooooowwwwwww



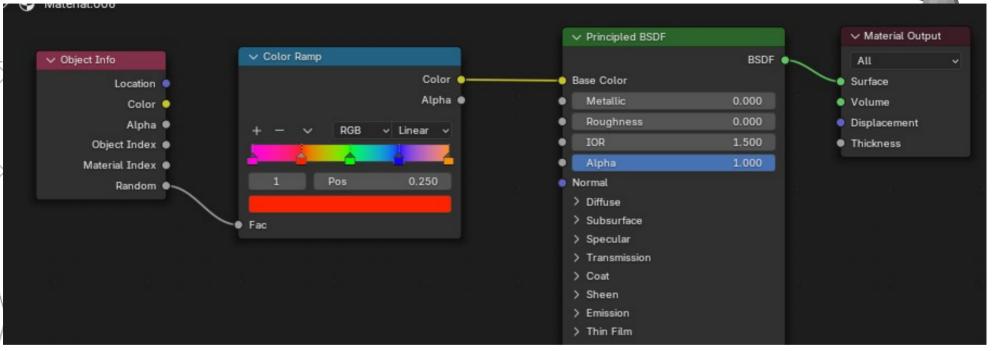


## Use the Shader Editor

# Shader Editor is your friend!

## Special shaders – Random color



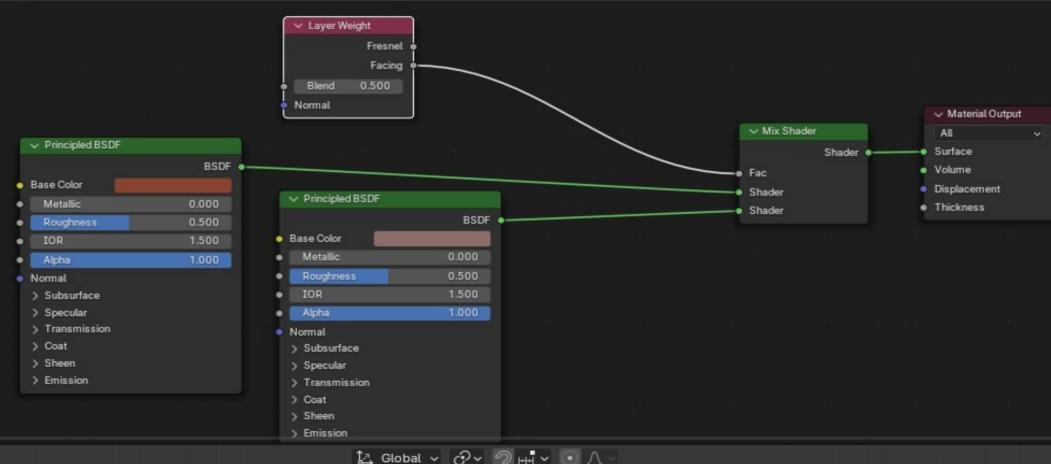


Use **Object Info** and **Color Ramp** nodes.

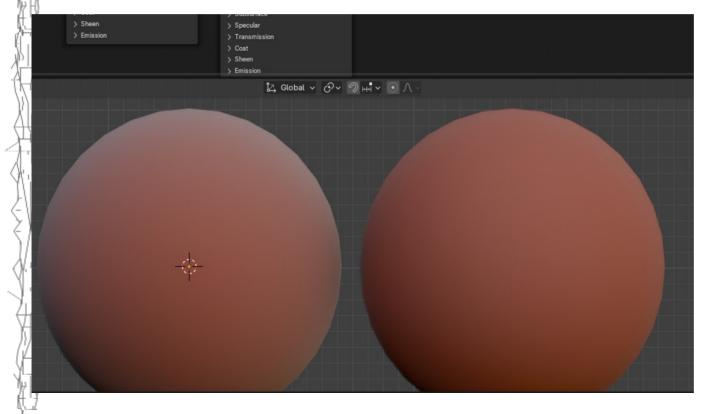


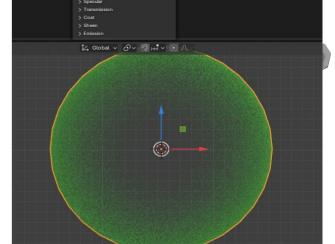
## Special shaders – Mix colors (facing)



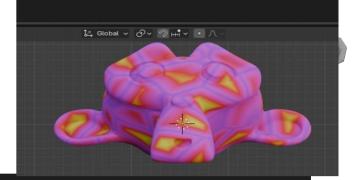


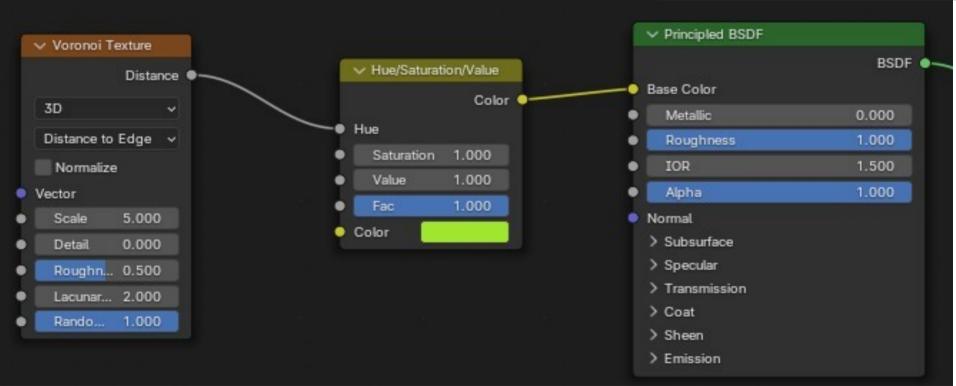
## Special shaders – Mix colors (facing)





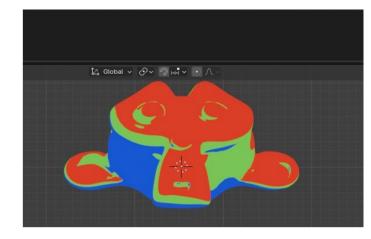
## Special shaders – Mix colors (texture)

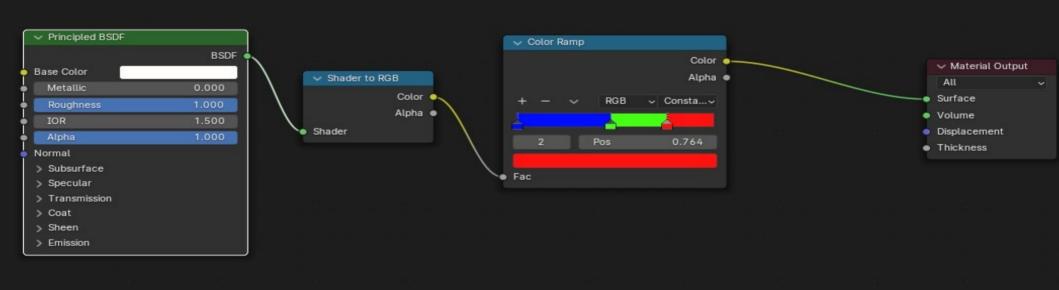






## Special shaders – Stylized







## Lighting – 2 Backgrouds (1 for lighting)



