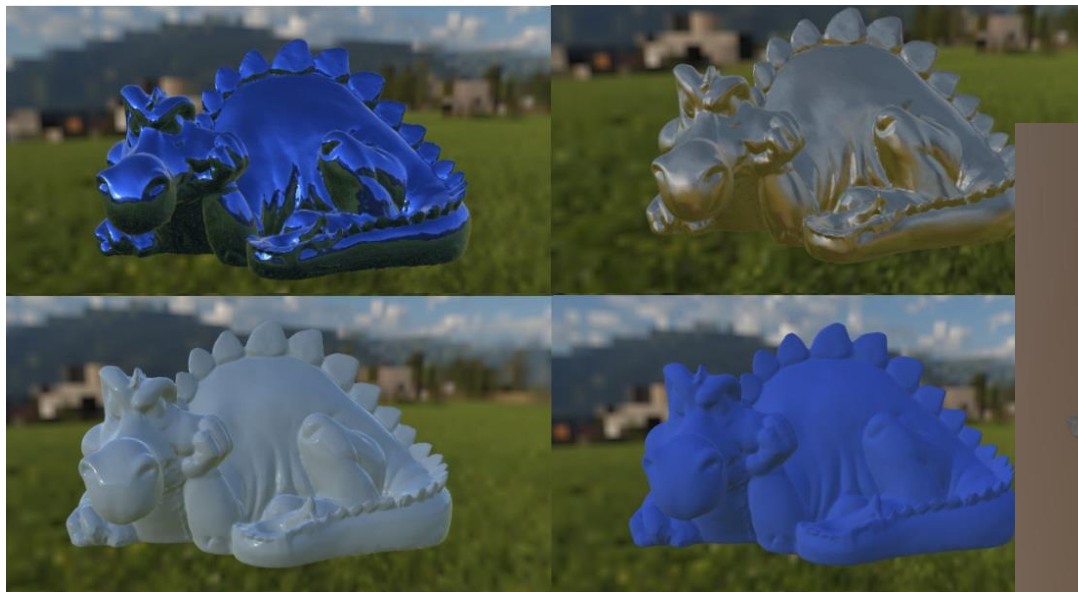


PBR-ready glTF in instant3Dhub / instantUV

Max Limper

Fraunhofer IGD / TU Darmstadt



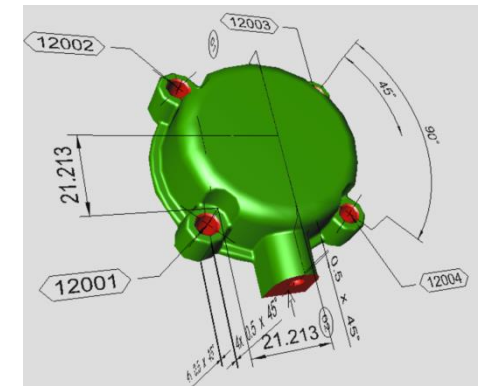
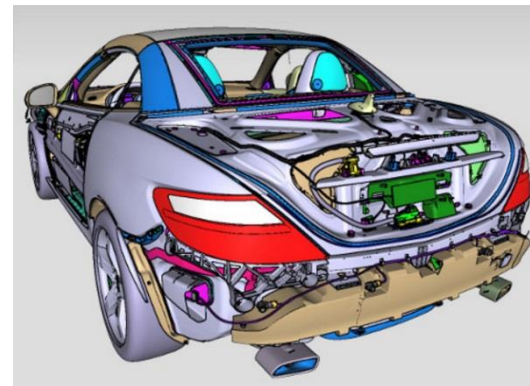
Motivation:

PBR in instant3Dhub / instantUV *

- **Distributed Visualization (VaaS) Software Suite**
 - Various **client hardware** configurations (Desktop, Mobile)
 - Various **client software** configurations (JS/Web, C++, Java)
 - Different **GPU / shading languages**

*Additional Information:

Instant3dhub.com / instantuv.org



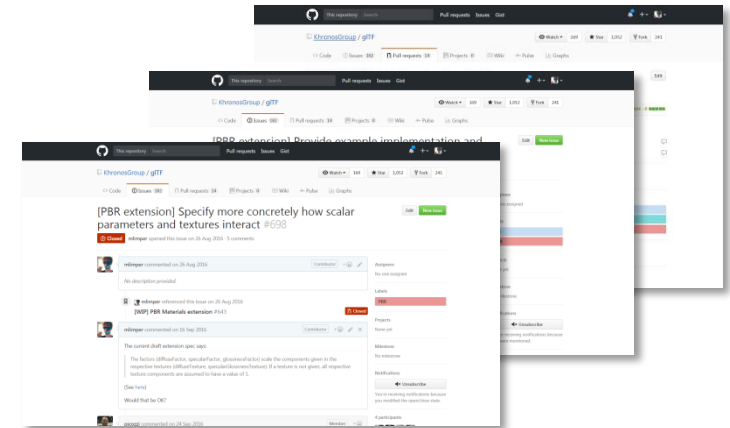
Proposal 06/2016

FRAUNHOFER_materials_pbr

- Tremendous feedback - huge momentum!



- We were, a bit, happily overwhelmed...
 - limited capacities for moving forward so quickly
 - as always, the devil's in the details ...



Some Questions & TODOs

public reference implementation?

one or two parameters sets?

where to put env. maps?

which approximations?

texture factors?

normal maps?

displacement maps?

bump maps?

occlusion maps?

why are we doing this?

gamma / sRGB?

Some Questions & TODOs

public reference implementation?

one or two param

W

which approxim

texture factors?



maps?

nt maps?

mp maps?

ion maps?

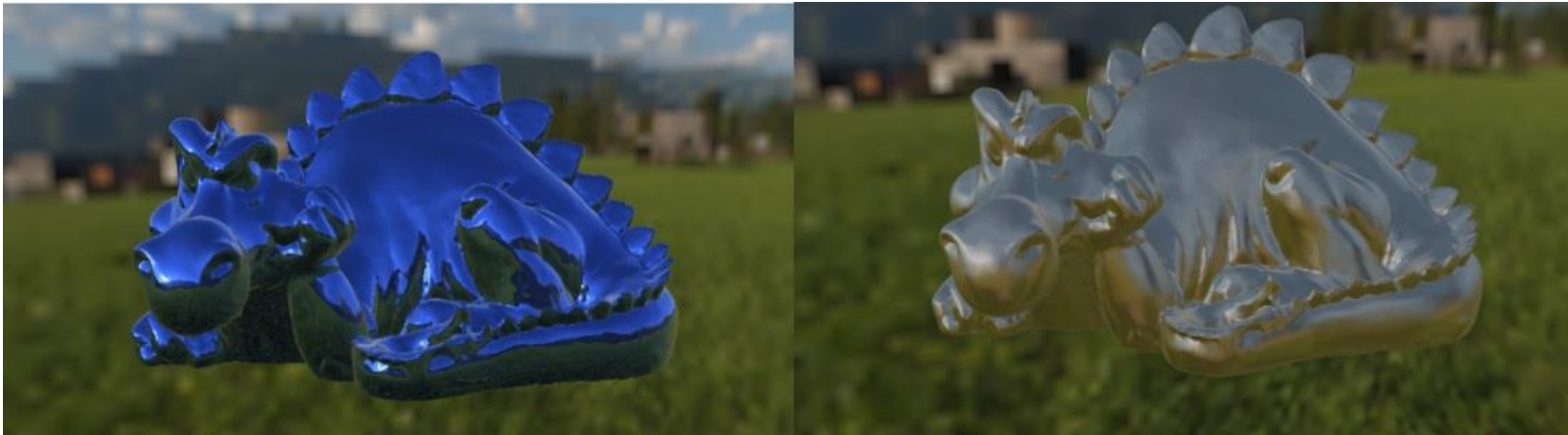
gamma / sRGB?

We can work it out together

Thanks to a great gITF community!

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 - Patrick Cozzi (AGI, University of Pennsylvania)
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 - Jeff from Marmoset
 - Ed Mackey (AGI)
 - Alexey Knyazev
 - Marco Hutter

Demo Time!



Thanks for your attention!