# KHR SNOS GROUP

### FBX to/from glTF

Cyrille Fauvel Sr. Program Manager – ADN / Forge

ormation



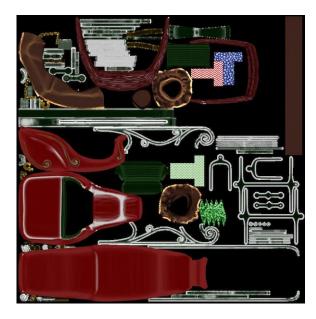
# Beyond graphics APIs, we need a runtime 3D Model Format



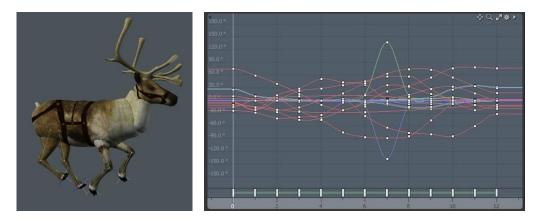
### What's in a 3D model?



Node hierarchy and geometry



Materials and textures

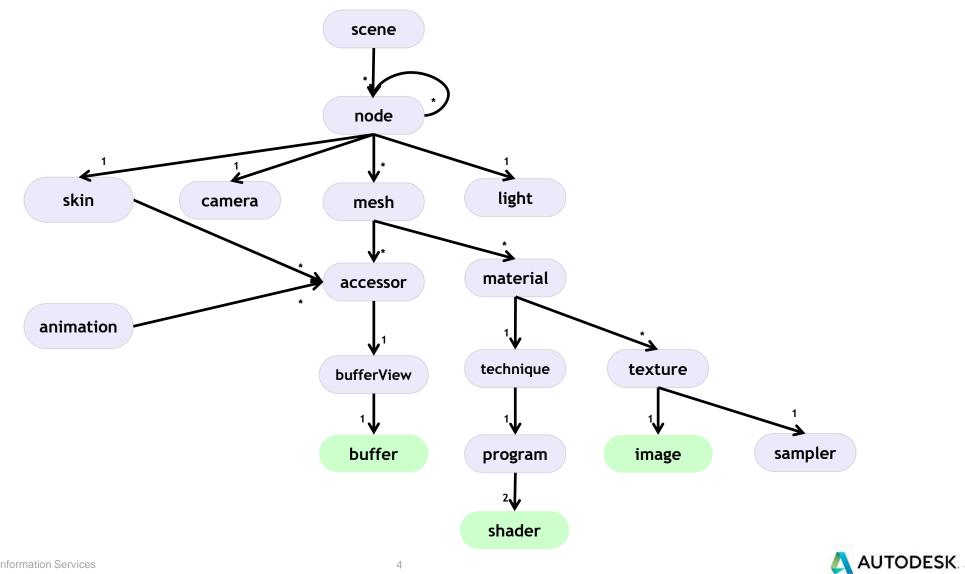


Animations and skins

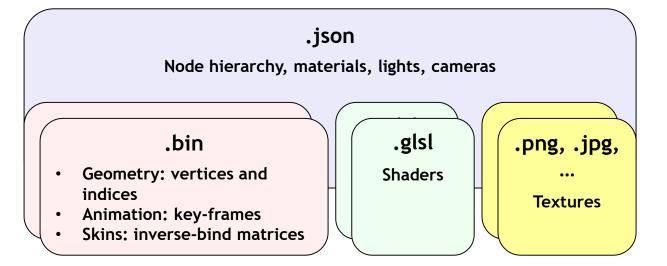




### **gITF** Internals



### **gITF Internals**





© 2016 Autodesk | Enterprise Information Services

### **gITF viewers**

three.js Loader https://github.com/mrdoob/three.js/





It's the native format!



Autodesk View & Data http://developer.Autodesk.com/



#### **PIPELINE TOOLS**

collada2gltf converter https://github.com/KhronosGroup/glTF

Online drag and drop COLLADA to glTF converter http://cesiumjs.org/convertmodel.html

#### FBX/... to gITF Convertor

(in development) Online Drag and drop convertor coming <u>http://gltf.autodesk.io/</u>



© 2016 Autodesk | Enterprise Information Services

© Copyright 2015 Autodesk. All rights reserved

### More than just FBX



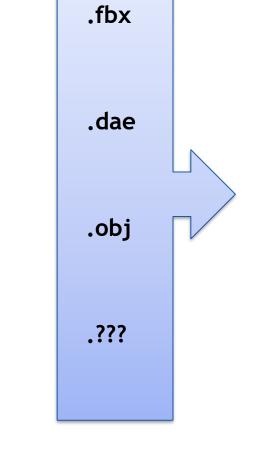
х

**FBX** 









### I/O FBX plug-in DLL

## 2 components

### Command line tool

- -f/--file file to convert to gITF [string]
- -o/--output path of output directory [string]
- -n/--name override the scene name [string]
- -c/--copy copy all media to the target directory (cannot be combined with --embed)
- -e/--embed embed all resources as Data URIs (cannot be combined with --copy)

### I/O FBX runtime extension

# Supported on the 3 main platforms

- Windows, osx, linux
- Actually can work on iOS too, but...



### **Engine integration**

Microsoft - Babylon.jsThree.js

Autodesk Forge – View & Data API

. . .





- https://github.com/cyrillef/FBX-gITF
- <u>http://gltf.autodesk.io</u>







Autodesk is a registered trademark of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

© 2016 Autodesk | Enterprise Information Services. All rights reserved