V3ct3D

Structuring project

École nationale des sciences géographiques

09 december 2016



Processing chain md => pdf

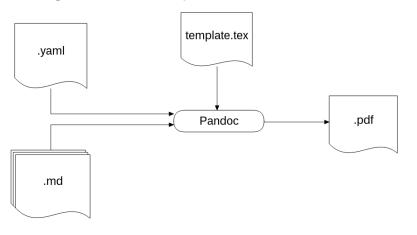
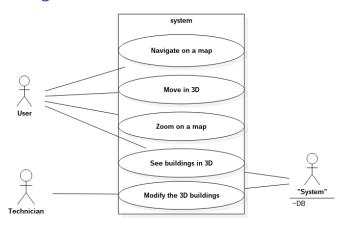


FIGURE: Processing chain

Use case diagramm



 $FIGURE: \ Use \ case \ diagram$



Personal report - Hugo BALTZ

Computer skills

- Pandoc
- Markdown
- ► UML diagrams
- 3D-Viewer

Social skills

- Organization
- Relationships
- Communication
- Efficiency



Production chain: global

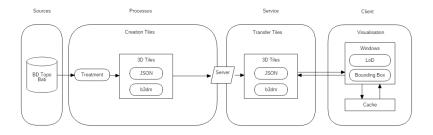


FIGURE: Production chain

Personal report - Julie MARCUZZI

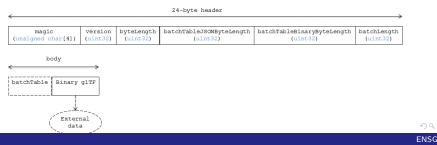
- Learn Markdown methods
- UML diagrams
- Communication
- Discover Cesium, file format & library

b3dm Batched 3D Model

OGC is considering a proposed work item for 3D Tiles as a Community

The Batched 3D Models is an initial tile format proposed by **Open Geospatial Consortium (OGC®)** for **buildings**, terrain, massive models, etc. and the transfer of 3DTiles.

A tile is composed of two sections: a **header** immediately followed by a **body**, i.e. Binary gITF.



gITF GL Transmission Format

Used by 3DTiles

.gltf (JSON)

Node hierarchy, materials, cameras

.bin

Geometry: vertices and indices
Animation: key-frames
Skins: inverse-bind matrices

.glsl

Shaders

.png

.jpg

•••

Textures

^{*} Providing an efficient, extensible, interoperable format for the transmission and loading of 3D content. * Abling to faithfully

Personal report

- Rediscovery of Cesium & Node is
- Discovery of streams (WMTS) and file transfers (gltf, b3dm ...) + library js like OpenLayers
- Knowledge about Markdown
- Curious and Analytical mind