



3D | OPEN
SOURCE



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AGENDA

❖ 3D med QGIS

- ❖ QGIS2threeJS

- ❖ CZML To Cesium

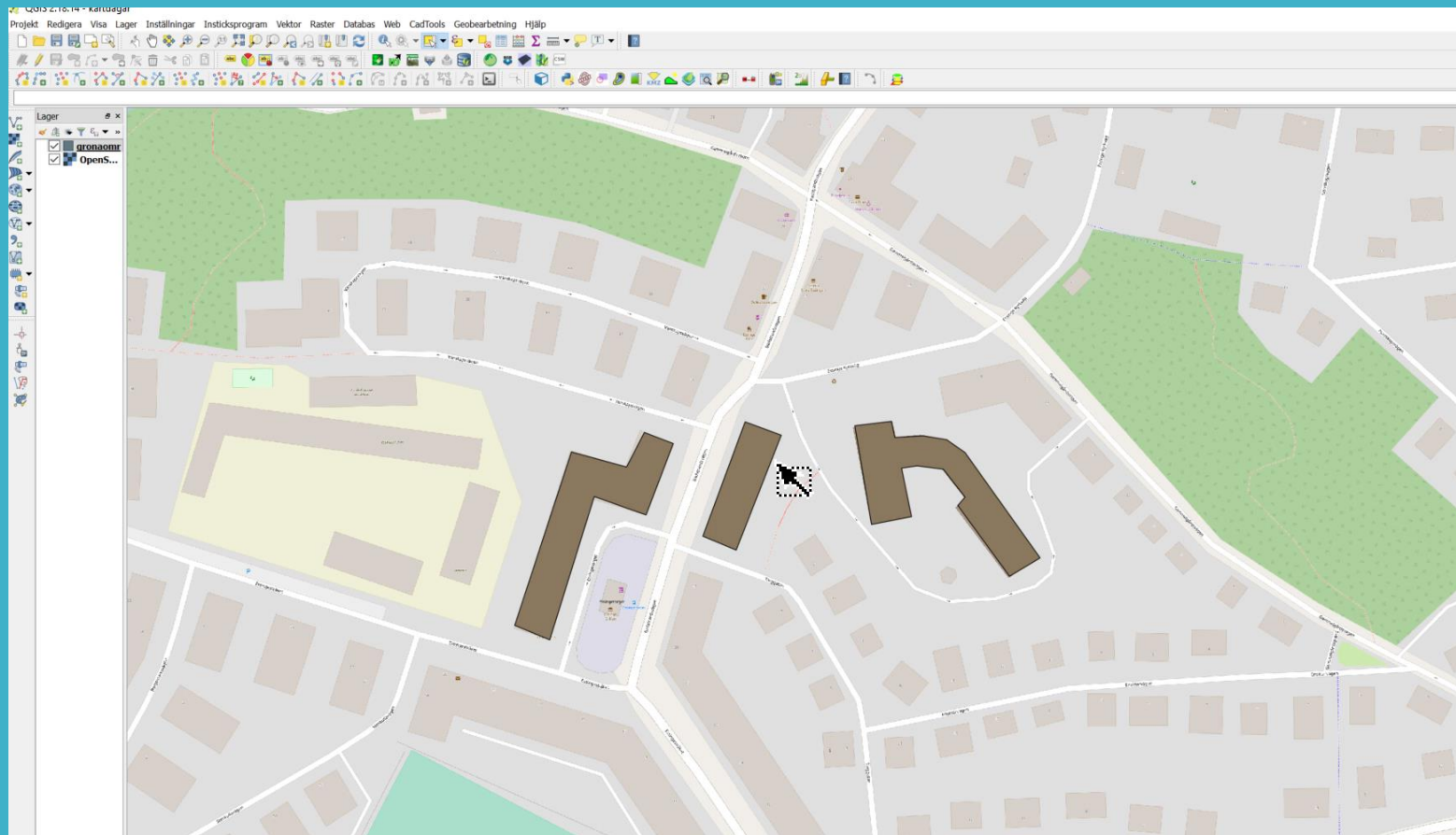
❖ 3D med Cesium

- ❖ Ladda ner och installera CesiumJS

- ❖ Cesium konfiguration med SandCastle

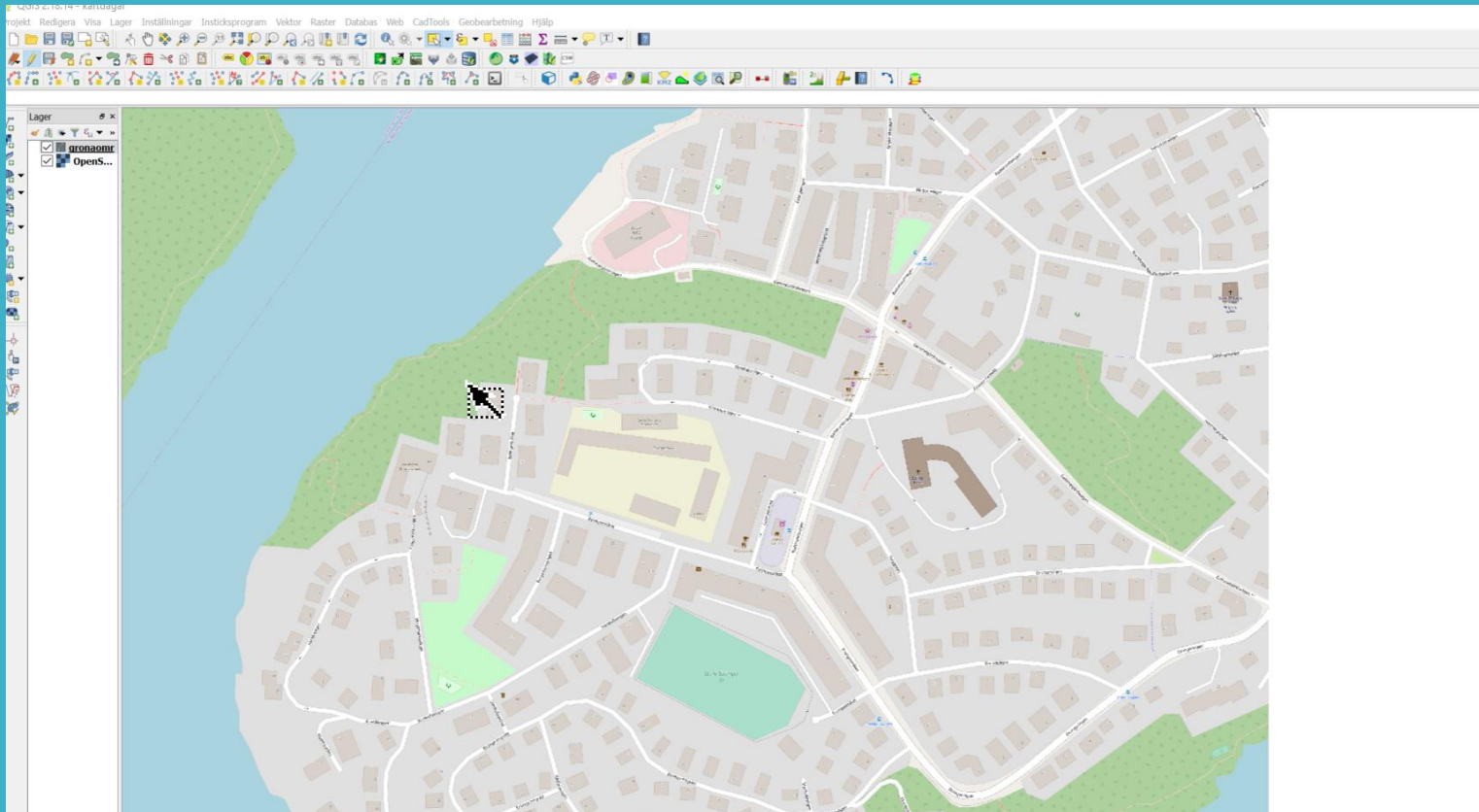
❖ Sokigos 3D webbkartan

3D med QGIS QGIS2threeJS



- Installera QGIS2ThreeJS
- Lägg till ett eller flera lager som innehåller attributen med höjder
- Konfigurera och exportera kartan

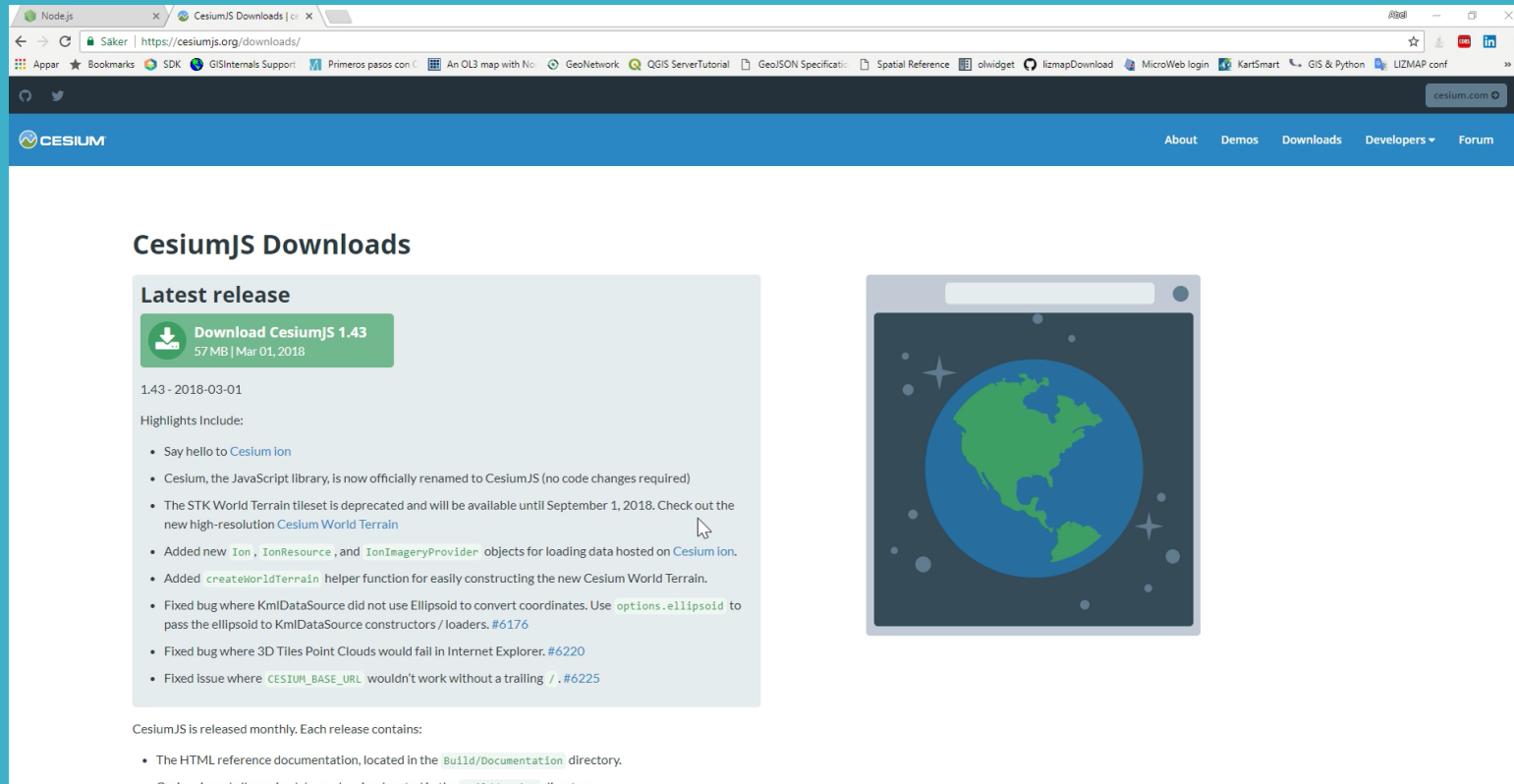
3D med QGIS CZML To Cesium



- Installera CZML Generator från https://github.com/samanbey/czml_generator
- Rita eller lägg till ett polygon som innehåller attributen med höjder
- Exportera lagret

3D med Cesium

Ladda ner och installera CesiumJS



CesiumJS Downloads

Latest release

[Download CesiumJS 1.43](#)
57 MB | Mar 01, 2018

1.43 - 2018-03-01

Highlights Include:

- Say hello to [Cesium ion](#)
- Cesium, the JavaScript library, is now officially renamed to CesiumJS (no code changes required)
- The STK World Terrain tileset is deprecated and will be available until September 1, 2018. Check out the new high-resolution [Cesium World Terrain](#)
- Added new `Ion`, `IonResource`, and `IonImageryProvider` objects for loading data hosted on [Cesium ion](#).
- Added `createWorldTerrain` helper function for easily constructing the new Cesium World Terrain.
- Fixed bug where `KmlDataSource` did not use `Ellipsoid` to convert coordinates. Use `options.ellipsoid` to pass the ellipsoid to `KmlDataSource` constructors / loaders. #6176
- Fixed bug where 3D Tiles Point Clouds would fail in Internet Explorer. #6220
- Fixed issue where `CESIUM_BASE_URL` wouldn't work without a trailing `/`. #6225

CesiumJS is released monthly. Each release contains:

- The HTML reference documentation, located in the `Build/Documentation` directory.
- CesiumJS and all required dependencies, located in the `Build/Cesium` directory.

- Ladda ner Cesium från <https://cesiumjs.org/downloads/>
- Installera NodeJS från <https://nodejs.org/en/>
- Öppna cmd kommandot och navigera till mappen där Cesium finns
- Skriv kommandot "npm install"
- Starta servern genom att skriva "node server.js"
- Skriv på din webbläsaren: `localhost:8080/Apps/helloworld.html`

3D med Cesium

Cesium konfiguration med SandCastle

The screenshot displays a web browser window with the Cesium logo in the top right corner. The browser's address bar shows a search for "Cesium 1.43". The main content area is split into two panes: "JavaScript code" on the left and "Cesium 1.43" on the right. The code pane contains the following JavaScript code:

```
1 // An example showing a point cloud tileset classifi
2 var viewer = new Cesium.Viewer('cesiumContainer');
3
4 //Point Cloud by Prof. Peter Allen, Columbia Univers
5 var tileset = new Cesium.Cesium3DTileset({
6   url: Cesium.IonResource.fromAssetId(3838)
7 });
8 viewer.scene.primitives.add(tileset);
9
10 // Geometry Tiles are experimental and the format is
11 // For more details, see:
12 // https://github.com/AnalyticalGraphicsInc/3d-ti
13 var classificationTileset = new Cesium.Cesium3DTiles
14   url: Cesium.IonResource.fromAssetId(3842),
15   classificationType: Cesium.ClassificationType.CE
16 });
17 viewer.scene.primitives.add(classificationTileset);
18
19 classificationTileset.style = new Cesium.Cesium3DTil
20   color : {
21     conditions : [
22       ["${id} === 'roof1'", "color('#004FFF',
23       ["${id} === 'towerBottom1'" "color('#33
```

The 3D viewer pane shows a 3D model of a castle with a blue tower and a brown roof, rendered over a point cloud. The viewer includes a search icon, a home icon, a globe icon, and a help icon. A timeline at the bottom of the viewer shows the current time as 18:22:50 UTC on Mar 19 2018. Below the viewer, there are tabs for "Gallery" and "Console". The "Gallery" tab is active, showing a list of showcases: "3D Tiles Point Cloud Classification", "CZML", "3D Models Coloring", "3D Models", "3D Tiles BIM", "3D Tiles Clipping Planes", "3D Tiles Feature Picking", "3D Tiles Feature Styling", and "3D Tiles Feature Styling". Each showcase has a small thumbnail image.

Sokigos 3D webbkartan



Vi tittar på kartan!