

How to work with Cesium Imagery Services?

Initial Steps:

1. Download and install **Cesium JS** <https://cesiumjs.org/downloads.html>
 2. Download the zip file **Cesium_Imagery_Services_Sample_code.zip** and extract it in the Cesium folder.
 3. The **Cesium_Imagery_Services_Sample_code** folder has three files: **CesiumWMS.html**, **CesiumTMS.html**, and **CesiumWMTS.html**
 4. Open **command prompt** and start the Cesium server by: **node server.js**
 5. Check if the Cesium server is up and working by accessing <http://localhost:8080/> in the browser (preferably Google chrome).
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Working with WMS

Open the file **CesiumWMS.html** in the browser by accessing http://localhost:8080/sample_codes/CesiumWMS.html

Let's see how it works?

Open the file **CesiumWMS.html** using a **text editor**.

In this file, there are several options to specify the properties of the imagery to be fetched from the server.

For instance:

- a) `var url='https://geodata.nationaalgeoregister.nl/top100raster/wms?';`
- b) `layers: 'top100raster'`

a) specifies the **URL of the WMS service** and b) specifies the **layer** to be displayed in the browser.

Working with TMS

Open the file `CesiumTMS.html` in the browser by accessing http://localhost:8080/sample_codes/CesiumTMS.html

Let's see how it works?

Open the file `CesiumTMS.html` using a **text editor**.

In this file, there are several options to specify the properties of the imagery to be fetched from the server.

For instance:

- a) `var url=`
`'https://geodata.nationaalgeoregister.nl/tms/1.0.0/top100raster@EPSG:`
`28992@png';`
- b) `fileExtension: 'png',`

a) specifies the **URL of the TMS service (including layer name and SRS)** and b) specifies the file extension of the **layer** to be displayed in the browser.

Working with WMTS

Open the file `CesiumWMS.html` in the browser by accessing http://localhost:8080/sample_codes/CesiumWMTS.html

Let's see how it works?

Open the file `CesiumWMTS.html` using a **text editor**.

In this file, there are several options to specify the properties of the imagery to be fetched from the server.

For instance:

- a) `var url=`

'https://geodata.nationaalgeoregister.nl/files/service/wmts/brtachtergrondkaart?request=GetCapabilities';

b) layer: 'brtachtergrondkaart'

c) format: 'image/png'

d) tileMatrixSetID: 'EPSG:28992',

**e) tileMatrixLabels: ['EPSG:28992:0',
'EPSG:28992:1','EPSG:28992:2','EPSG:28992:3','EPSG:28992:4','E
PSG:28992:5','EPSG:28992:6','EPSG:28992:7','EPSG:28992:8','EPS
G:28992:9','EPSG:28992:10','EPSG:28992:11','EPSG:28992:12','EP
SG:28992:13','EPSG:28992:14'],**

a) specifies the **URL of the WMTS service** and **b)** specifies the **layer** to be displayed in the browser and **c)** specifies the **Mime type** for the **image** to be fetched from the server and **d) and e)** specify the identifiers for the tile matrix set and individual tile matrices respectively.