



So what is Cesium? Cesium is an open-source Javascript library for 3D globes and maps. Cesium was founded by AGI in 2012 started in 2012 and went open source in 2013. We've seen a wide range of uses with Cesium in many different areas. Starting on the top left is hi res terrain and imagery captured from matt nolan at the universvity of alaska. To the right is a view of New York City fro CityGML data, which will show up later in the talk. To bottom left is the roots of Cesium, which was founded by AGI, showing all the unclassified satellites in space. Next is Norad tracks santa which has been running on Cesium since 2012 and gets about 20 million unique visitors on Christmas Eve. And the last image is from the GEFS flight simulator, which migrated from Google Earth to Cesium due to the google earth plugin deprecation.







Cesium is used for every building Manhattan to every satellite in space. Cesium of course does the classic streaming on high resolution terrain and imagery, however our users also want to take advantage of 3D to stream million of buildings, billions of points, render instanced trees, and draw 3d vector data that conforms to terrain.



To handle all these cases we designed 3D Tiles. In summary, 3D tiles is an open specification for streaming massive heterogeneous 3D geospatial datasets. And here I'm going to show what these datasets look like.





