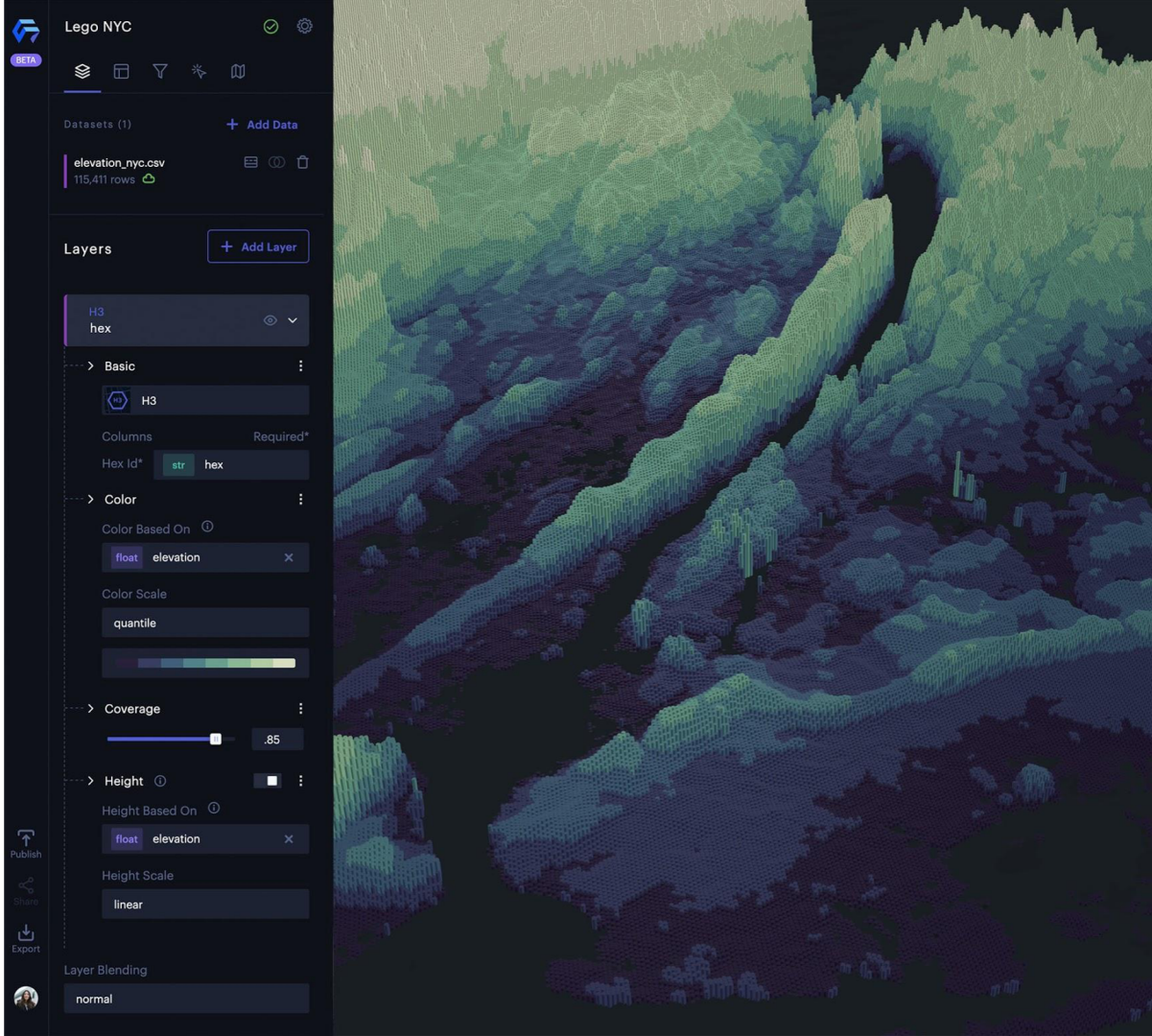
Unfolded Studio

Advanced Geo-analytics on the Web

Showcasing the power of open WebGL frameworks deck.gl, kepler.gl and H3.

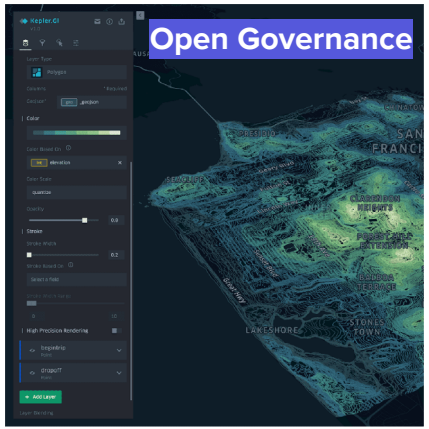
Public Slides. Updated 11.18.2020



Open Core

Unfolded Studio is built on a suite of open geospatial web technologies

Analytics



kepler.gl

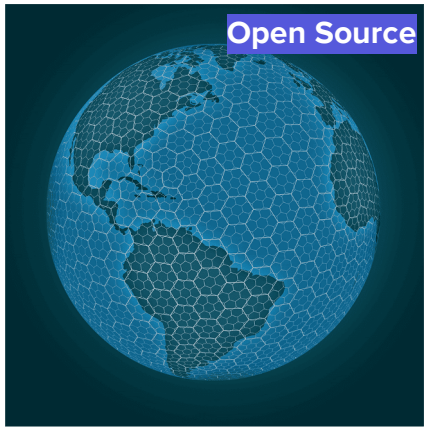
A powerful web application for geospatial analysis and fast exploration of large-scale datasets.

Rendering

deck.gl

A framework focused on high-performance, WebGL-based visualization of large datasets on web.

Spatial Indexing



H3

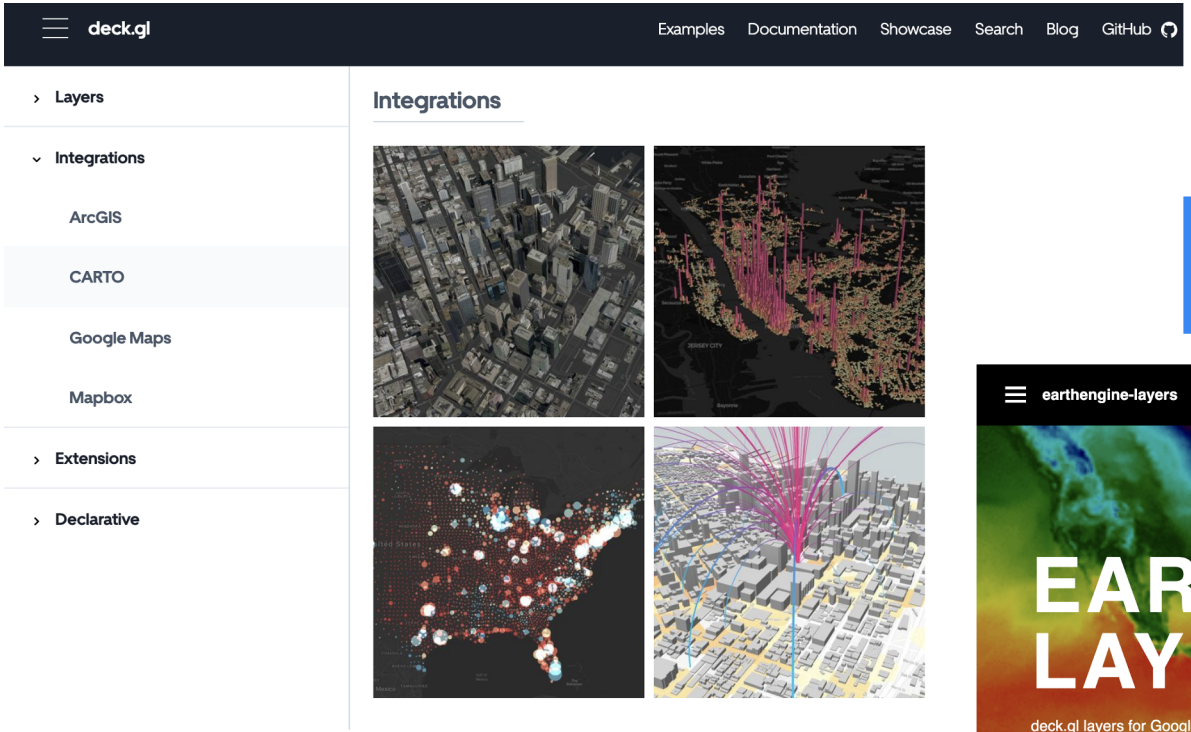
A hexagonal grid based geospatial indexing system, enabling hierarchical hexagonal aggregation of data.

Confidential

Under Open Governance through the Linux Foundation (UCF)

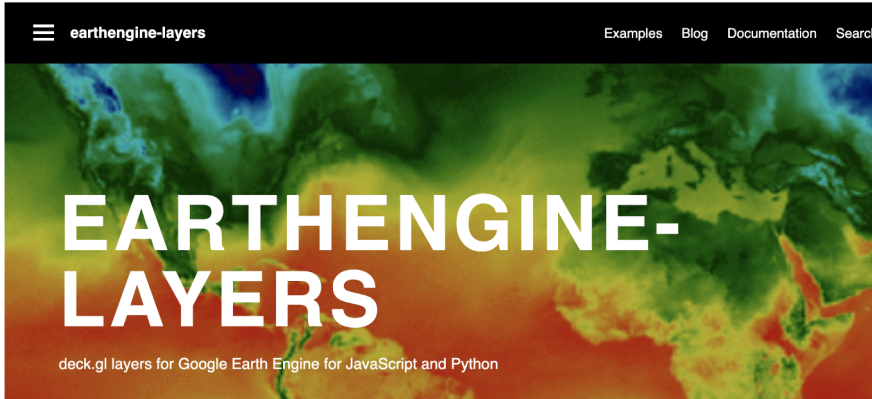
Cross-Industry Adoption

deck.gl / vis.gl - integration and adoption across the geospatial industry



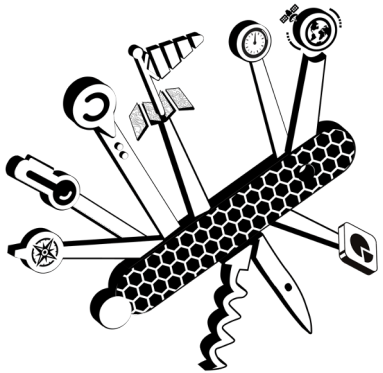
CARTO for deck.gl: The Best Way to Develop Spatial Apps

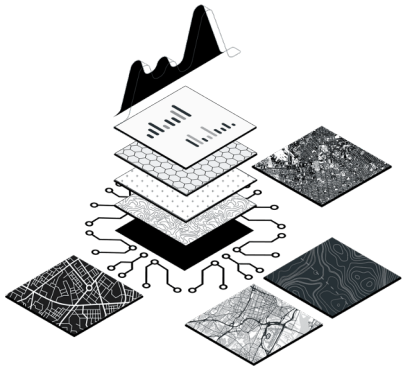
NEWS 6 mins read Share



Unfolded Studio is built for fast exploration of million-row geospatial datasets in the browser.

Free community access
https://studio.unfolded.ai





All-In-One Tool

Make geospatial insights with a few simple clicks

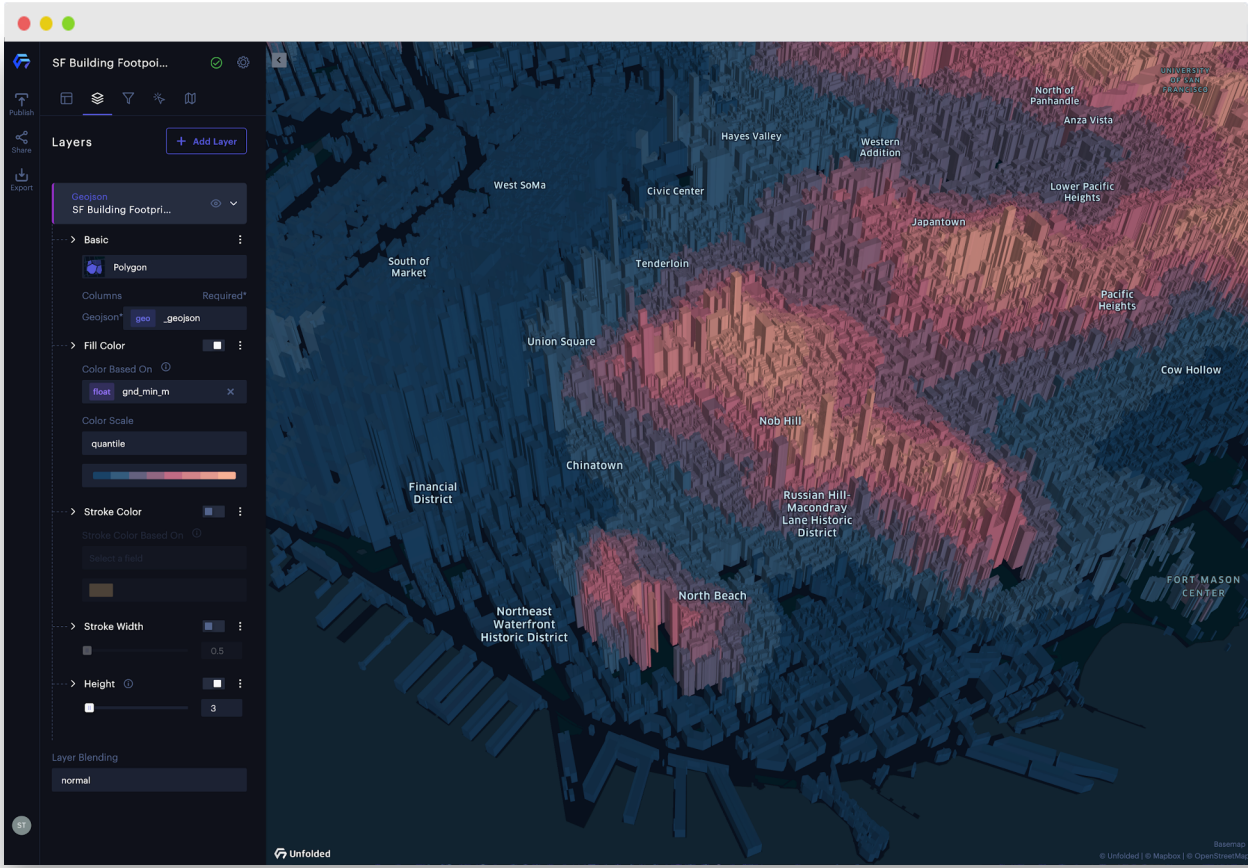
GPU-based Analytics and Visualization

Fluidly filter, aggregate, and playback million-row datasets in your browser

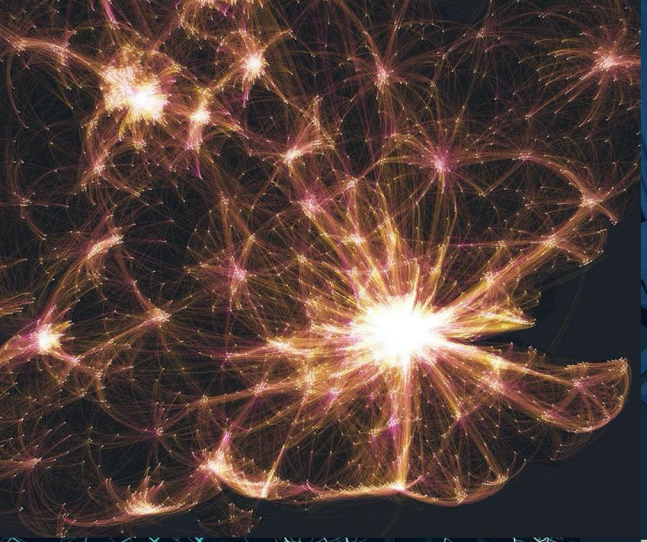
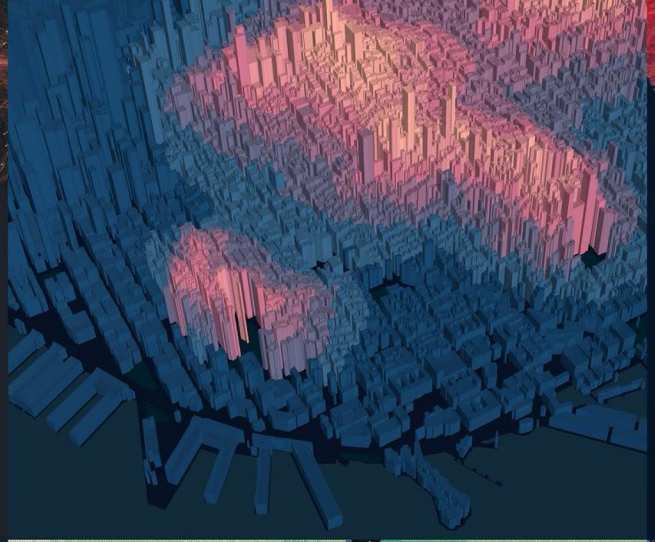
Unfolded

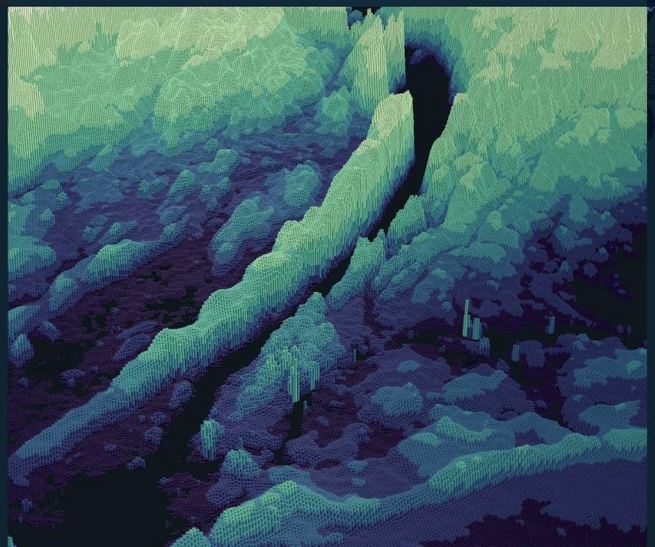
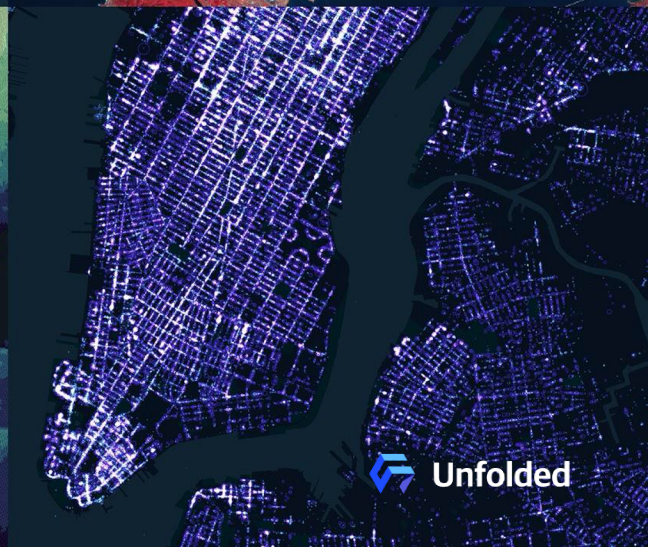
Unfolded Studio

- Client Side Exploration
- GPU Acceleration
- 15+ Preset Layers
- Filtering and Interaction
- Data Operations
- 3D Maps
- Planetary Datasets
- Time Animation
- On the Fly Aggregation



Unfolded



Unfolded

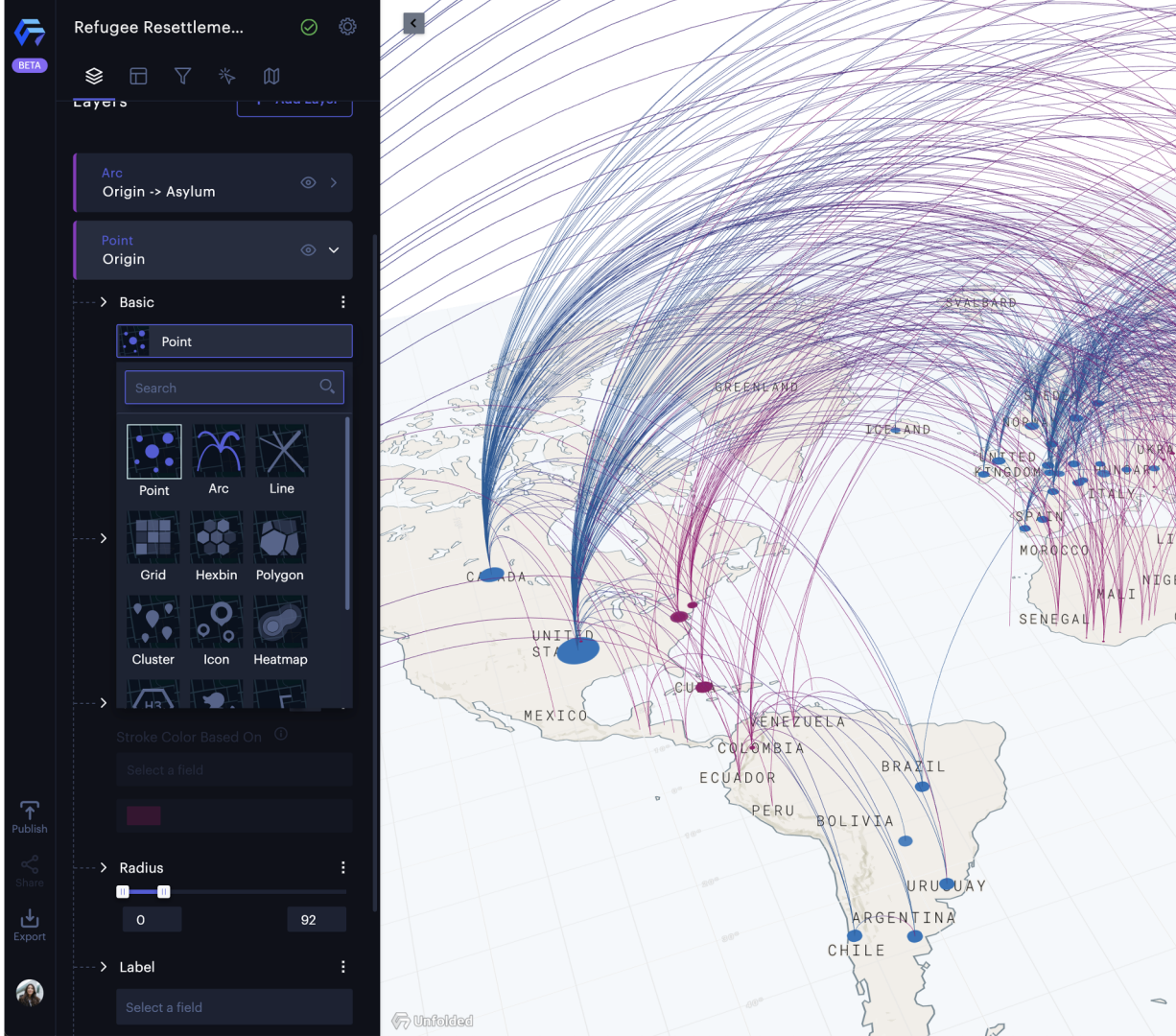
Data Layers

Extensive list of data layers to visualize all major geospatial data formats.

Includes point, arcs, path, admin boundary, vector tile, raster, H3, and scenegraphs.

- 15 preset data layers
- Photoshop like layer UI
- Multi channel visual encoding

Unfolded

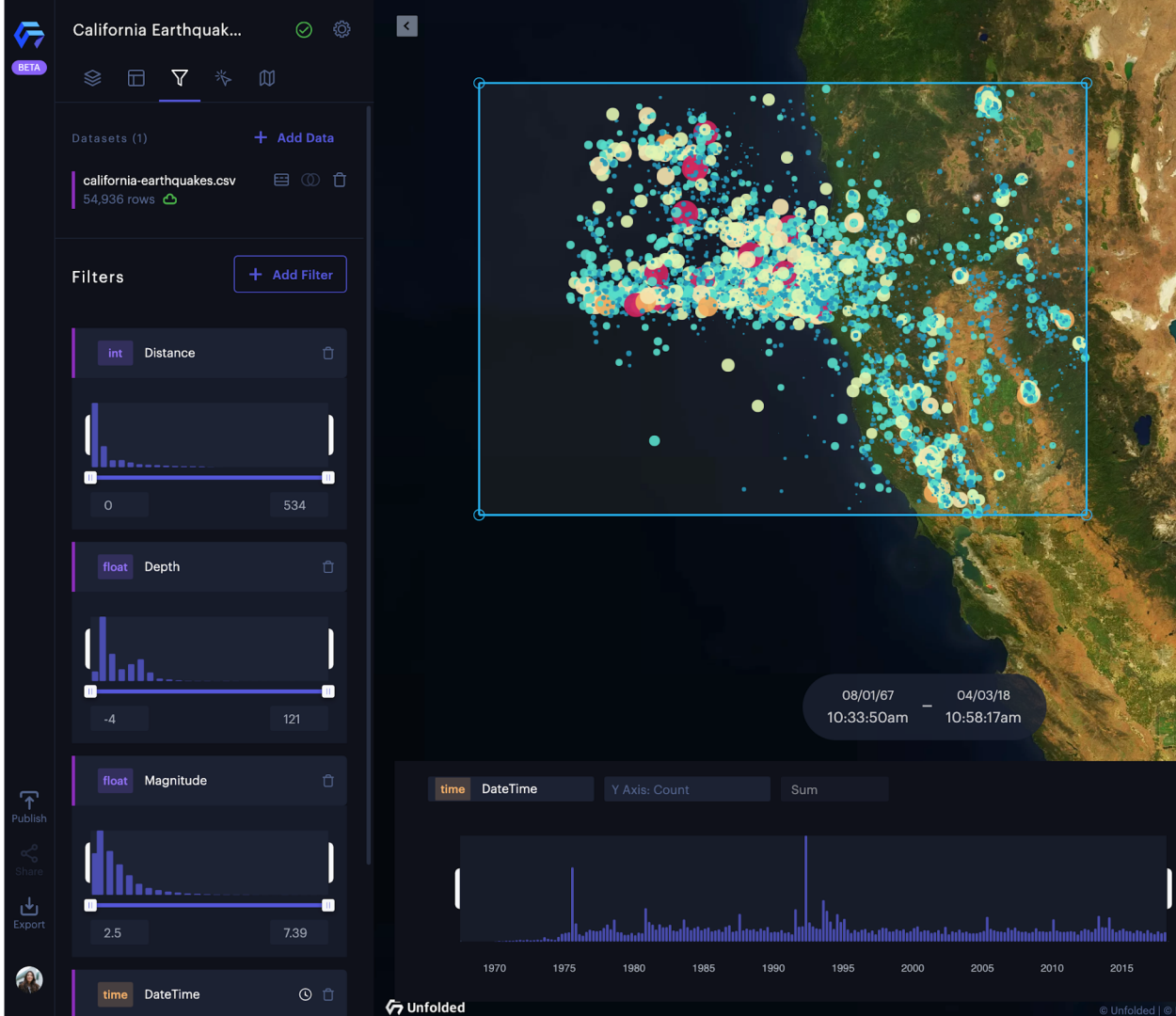


Real-Time Data Filtering

GPU accelerated client side filtering

- GPU based filtering
- Time animation
- Cross filtering

Unfolded

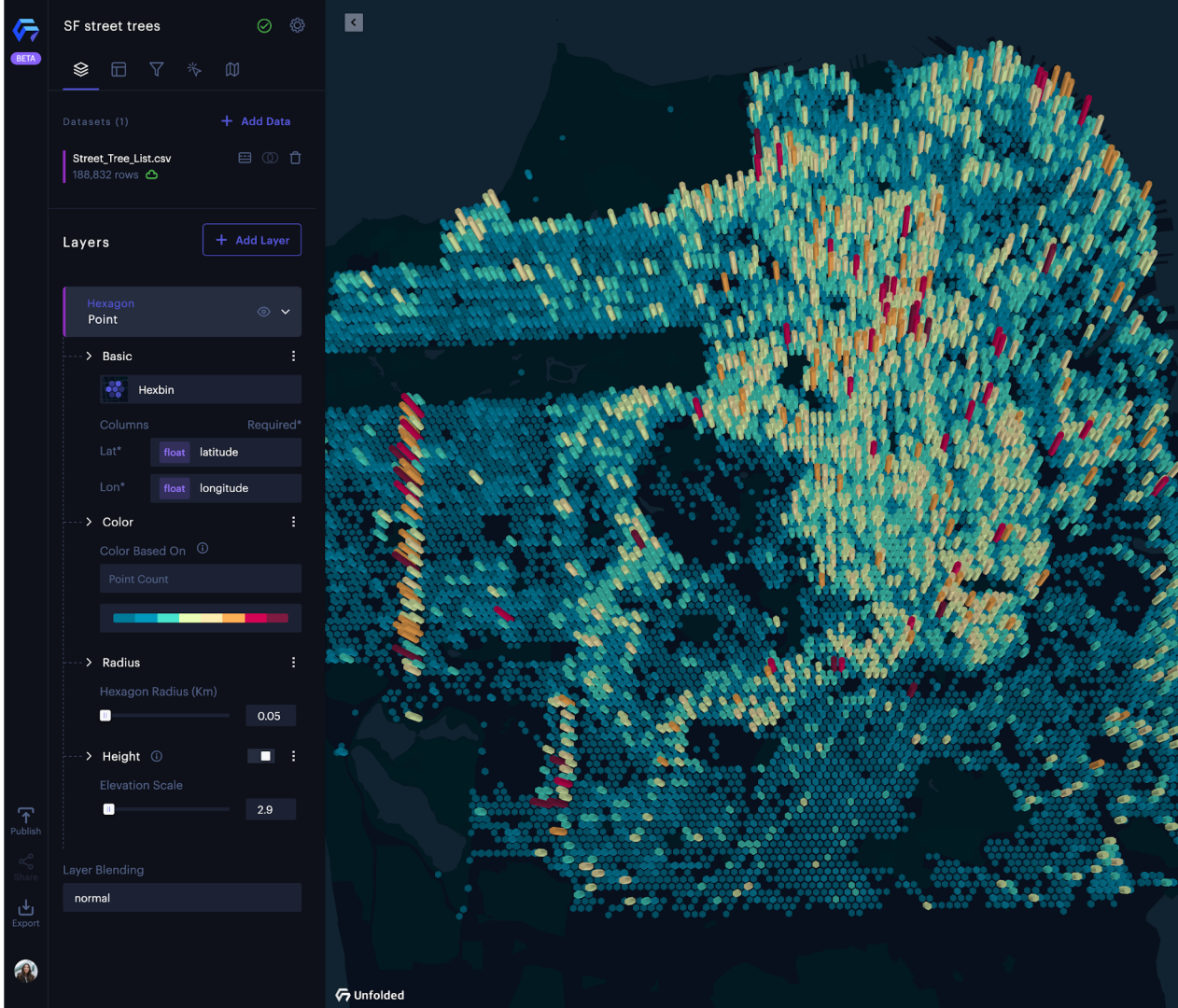


On the Fly Aggregation

Continuous point aggregation and clustering with heatmap, grid, hexagons.

- Grid, Hexbin, Heatmap
- Kdtree Clustering
- Aggregation by metrics
- 3D Enabled

Unfolded



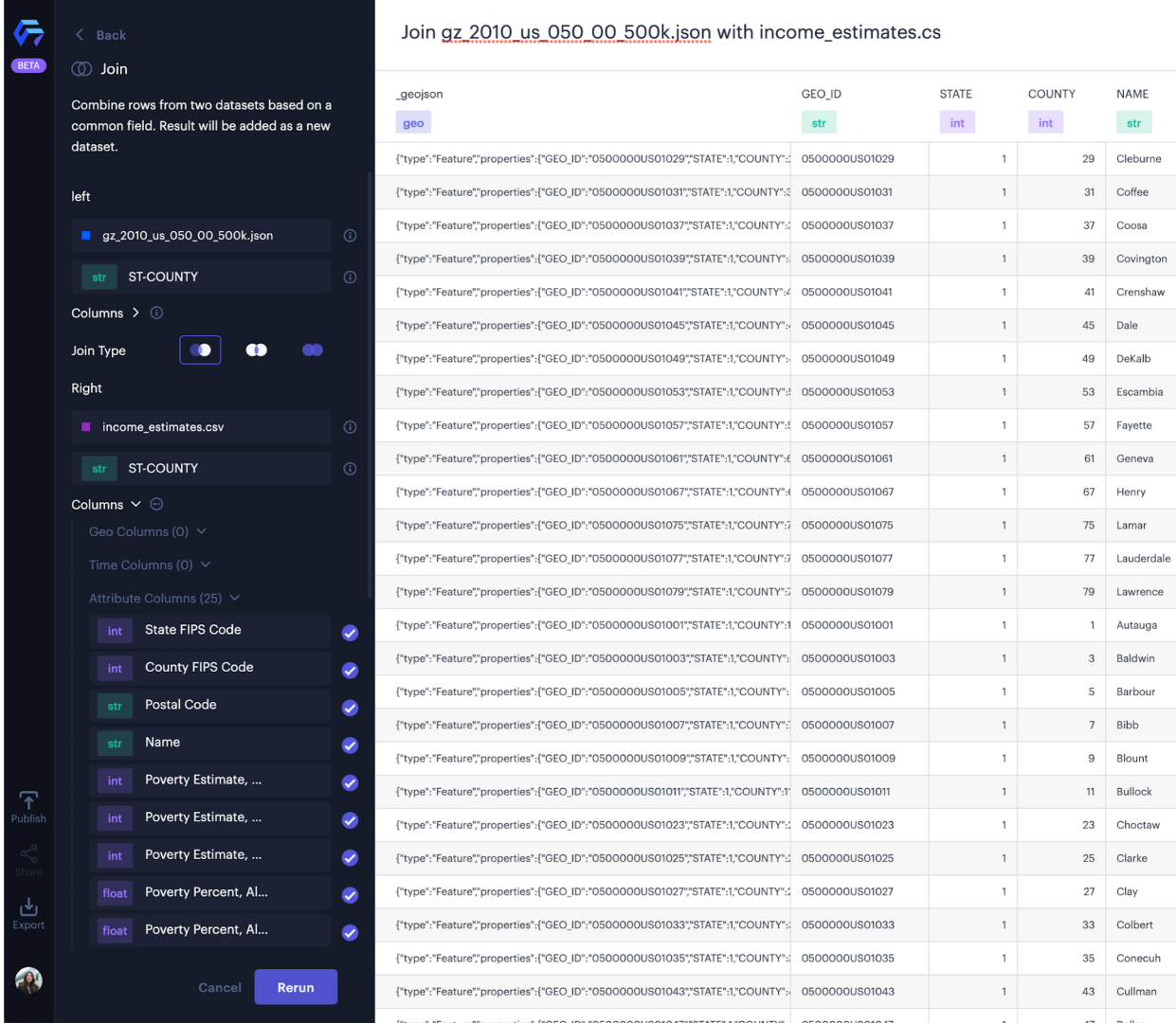
Data Analytics

Column-based User Interface enables in-app data operations.

Combine, join, group and summarize data before visualizing it.

- Metric Columns (Expressions)
- Group By
- Table Joins
- Geospatial joins Upcoming..

Unfolded

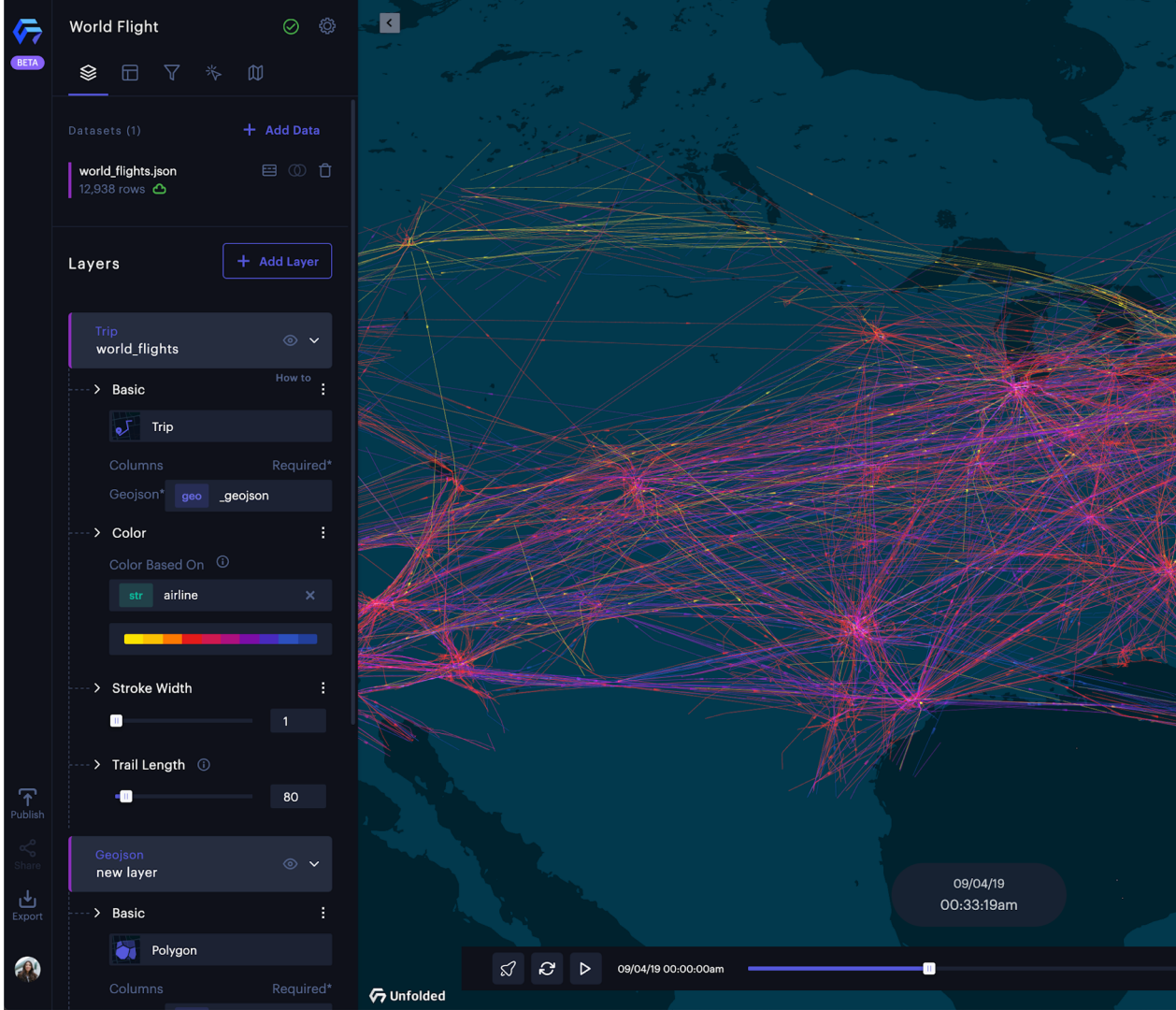


Spatio-Temporal Analytics

Automatic detection of datasets with time enabling filtering and animation.

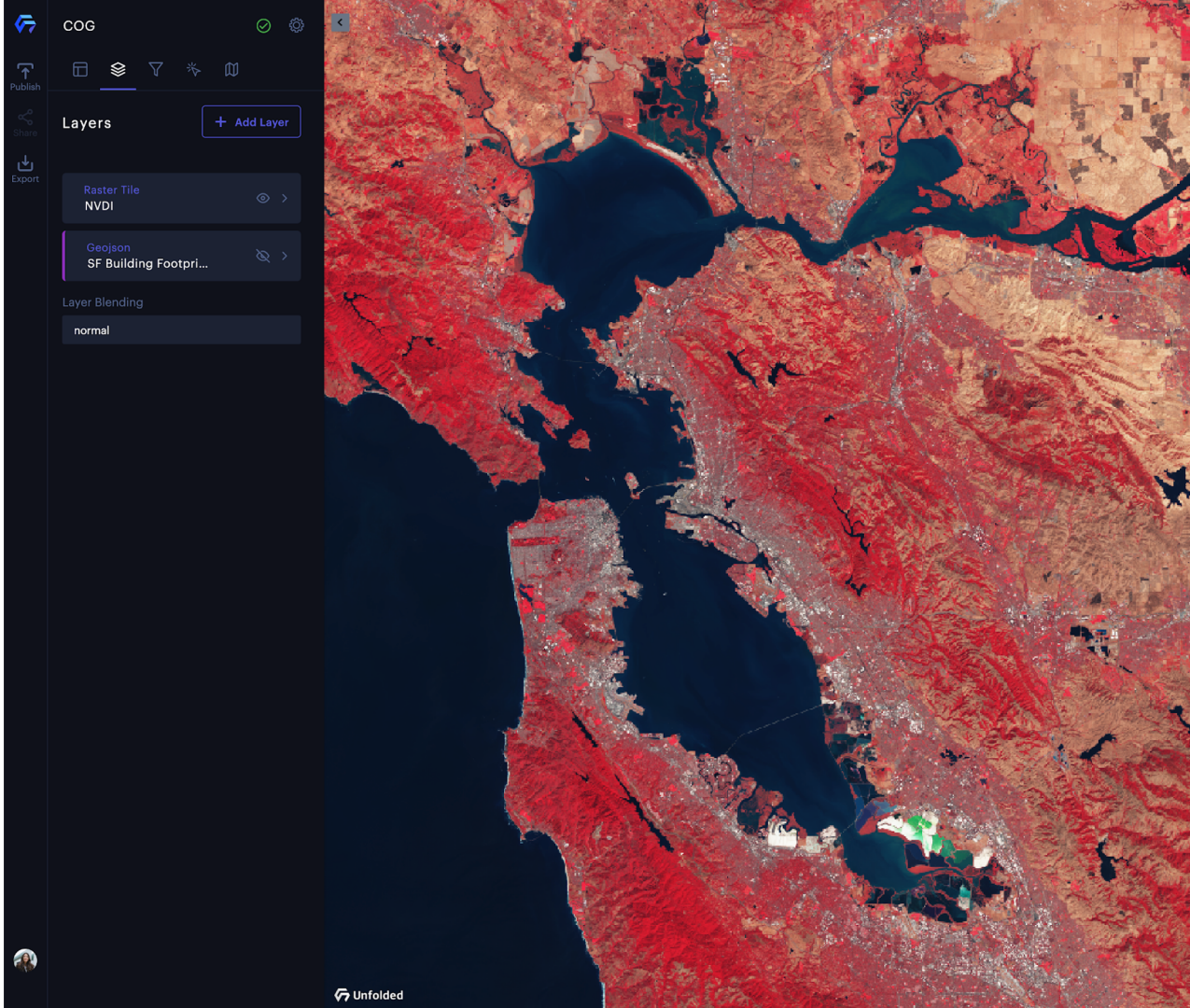
- Time filtering
- Path animation
- Temporal joins Upcoming..

Unfolded



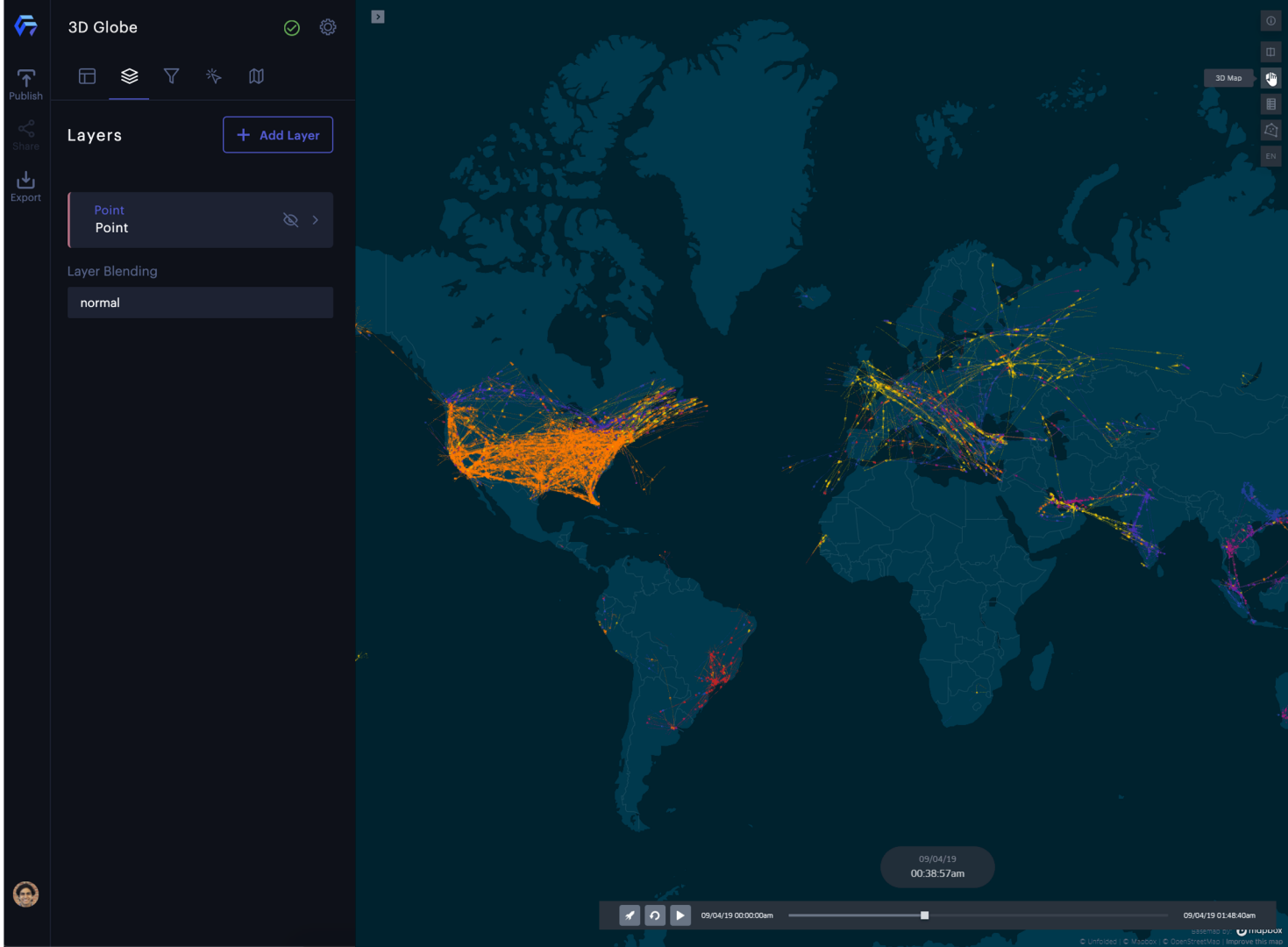
Tile based Data Sources

- Cloud Optimized GeoTIFFs
- High Bit-Depth Data Textures
- Data Texture Analytics
- Vector and Raster Tiles



Globe

Upcoming

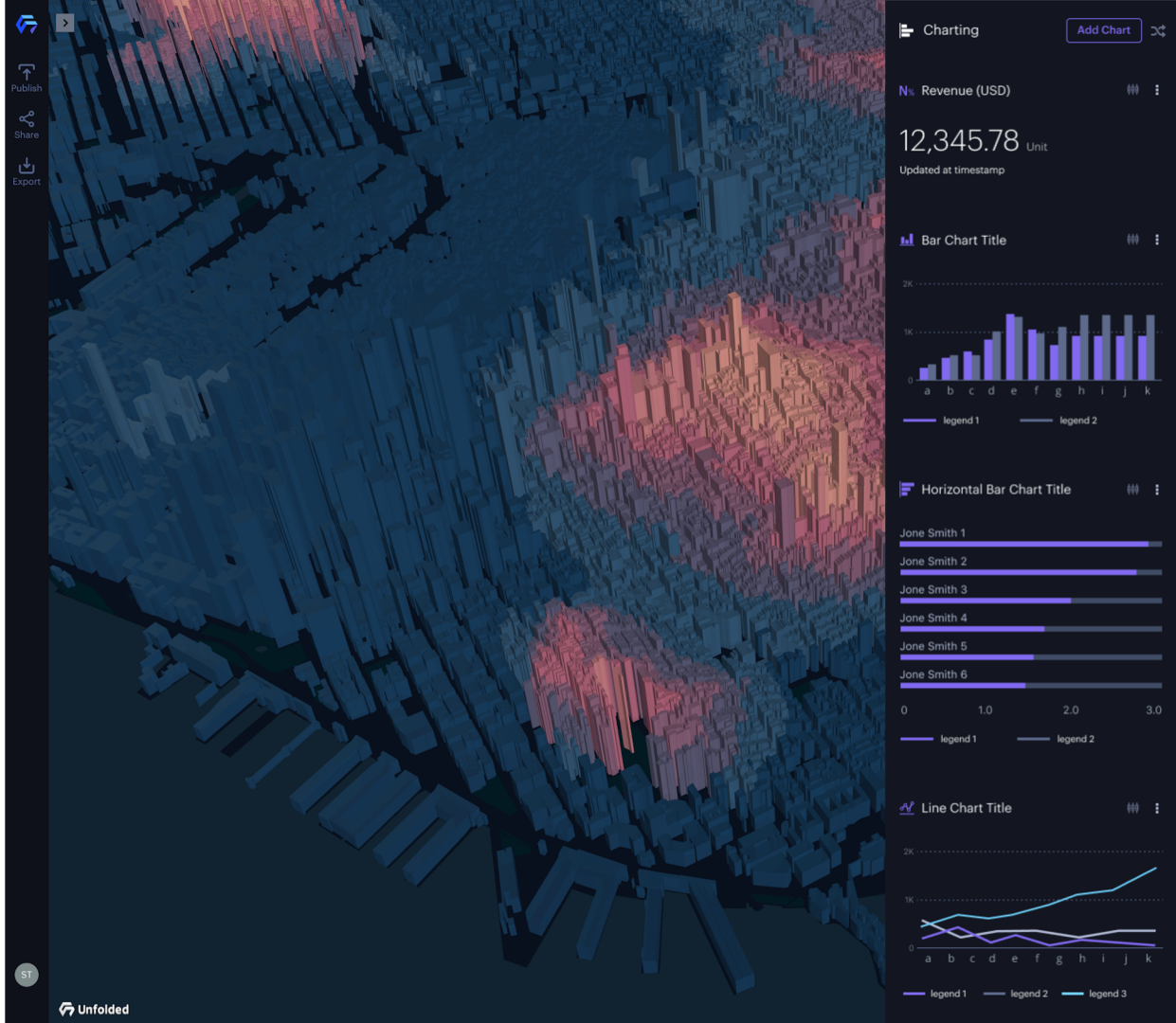


Unfolded

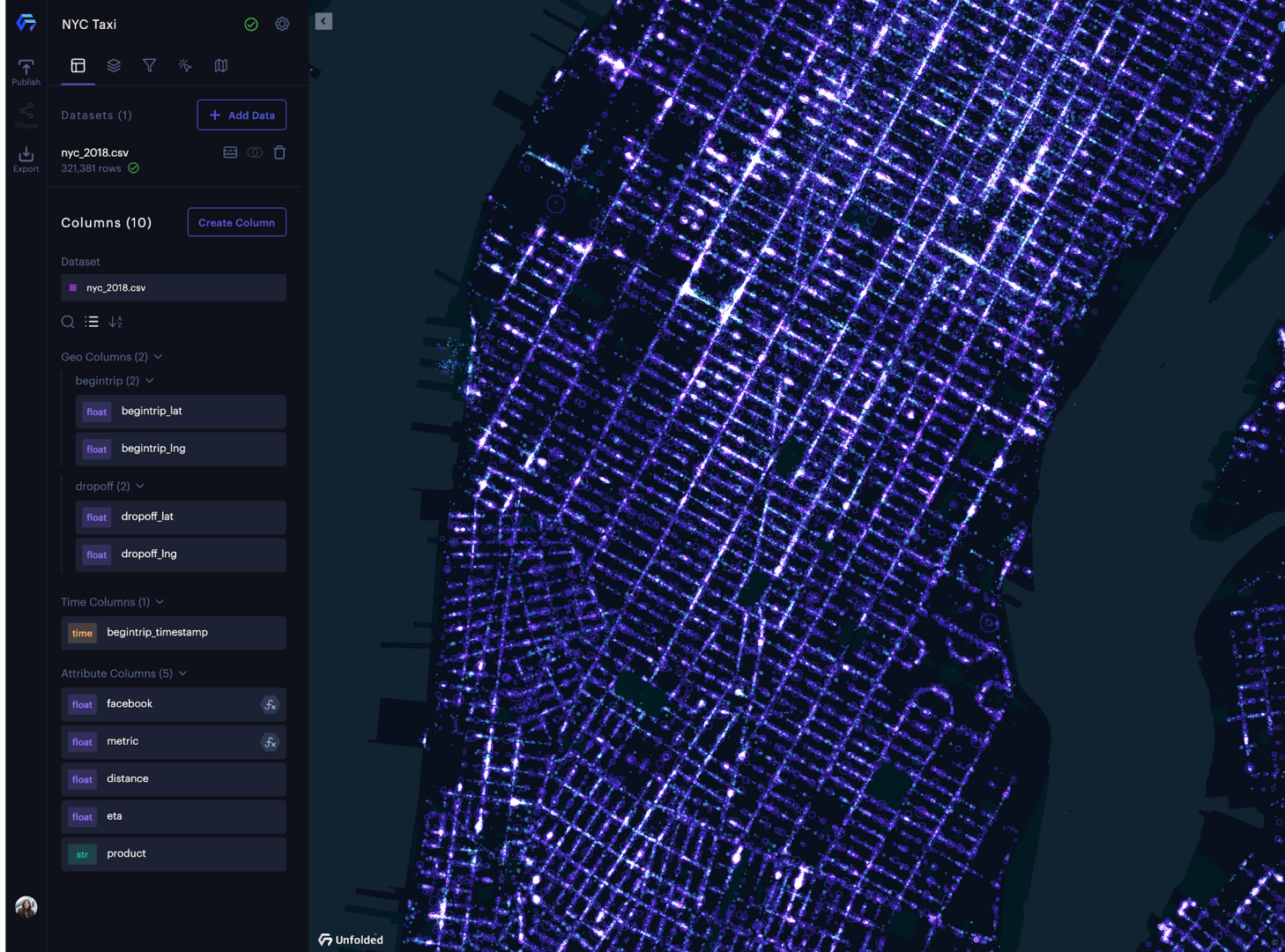
Chart Widget Support

Upcoming

Unfolded



Demo



Unfolded