

OmniSci and RAPIDS: End-to-End Open Source Data Science Workflow

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RAPIDS



slides: <https://speakerdeck.com/omnisci>

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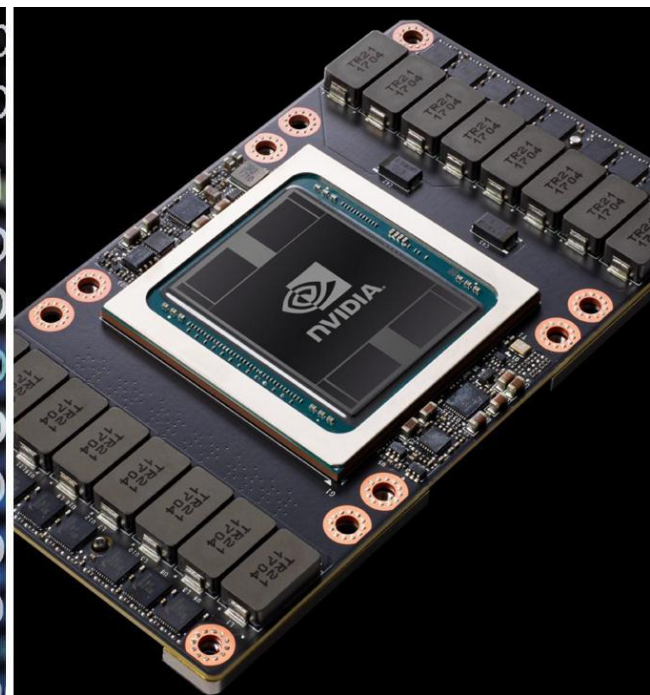
Fast Hardware + Fast Software



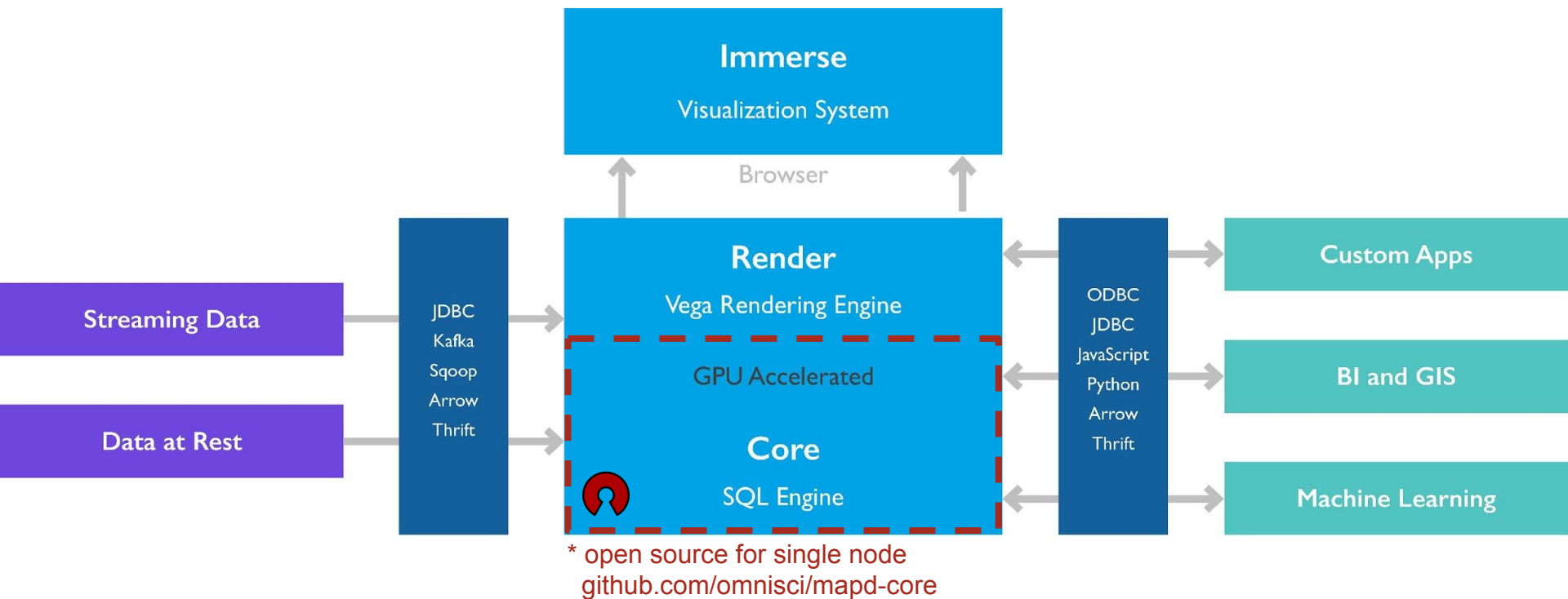
3-Tier Memory Caching



Query Compilation



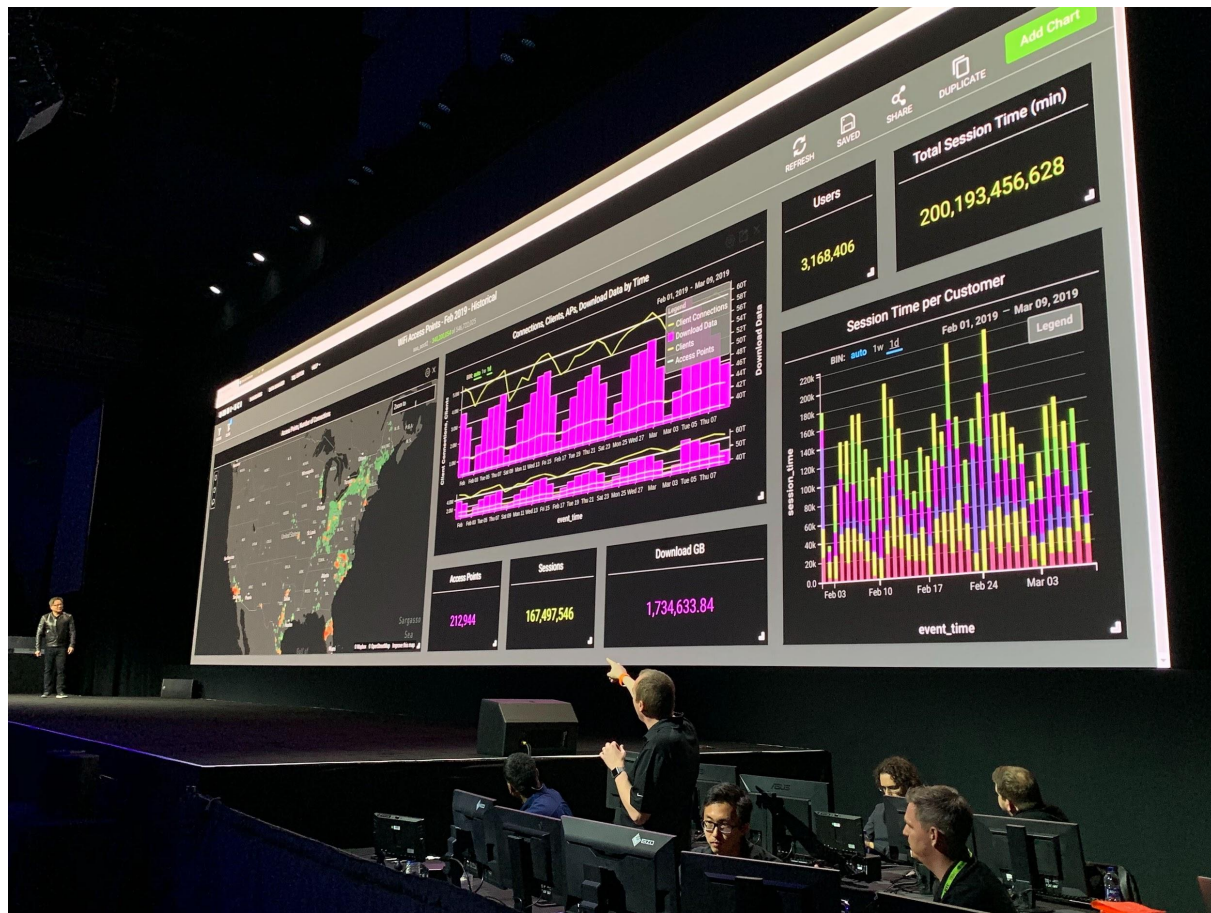
In-Situ Rendering



Data Integration

Platform

Develop and Accelerate



WiFi Access Points Demo

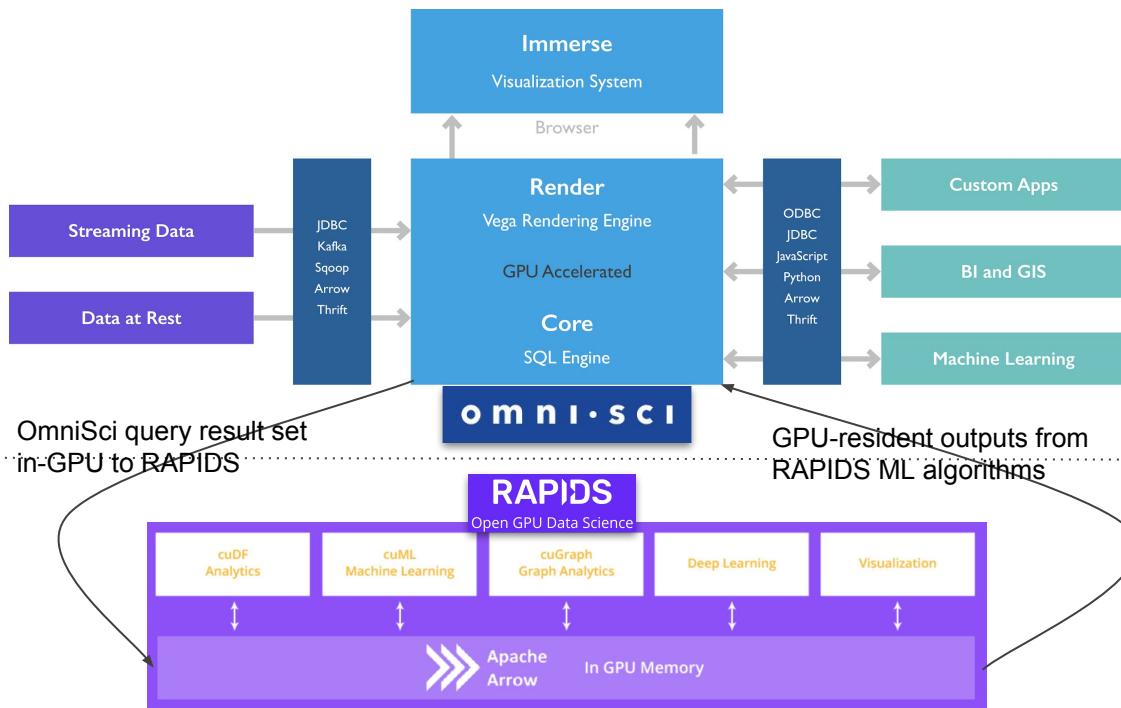
Unifying GPU-accelerated Analytics and Data Science



Altair: <https://altair-viz.github.io/>



Ibis: <http://ibis-project.org/>

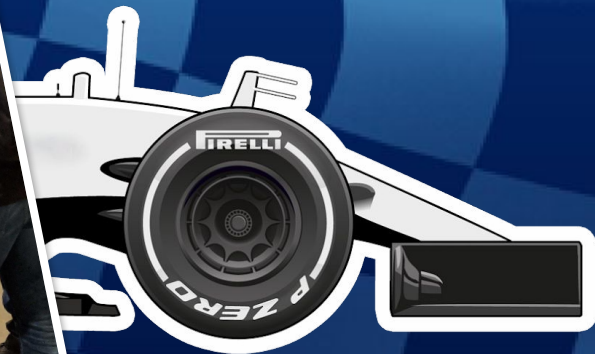


✓ With OmniSci's Arrow-capable python API (and via Ibis), OmniSci can output results direct to cudf, and integrate with RAPIDS via Python (requires pymapd 0.7.0).

✓ OmniSci's JupyterLab integration (and support for [Altair](#) and [Ibis](#)) allows for connecting, querying, in-notebook visualization and extraction of data



OmniSci User Defined Functions (coming 2019) will allow deeper, lower-level integration with **RAPIDS** libraries



Collecting Telematics
from the OmniSc

Thank you!



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