

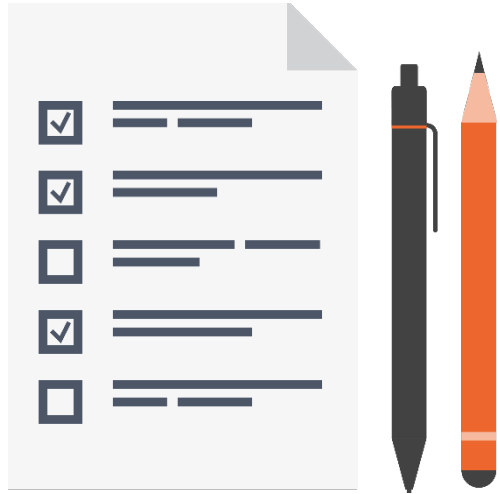
Big Data



Ben Sullins

@bensullins | bensullins.com

Module Goals



What is Big Data?

Why Big Data Exists

How Big Data Works

Key Concepts

Where to Find More

What Is Big Data?



Big Data is a set of technologies and methods for handling large volumes of data at rapid speeds and of various formats.

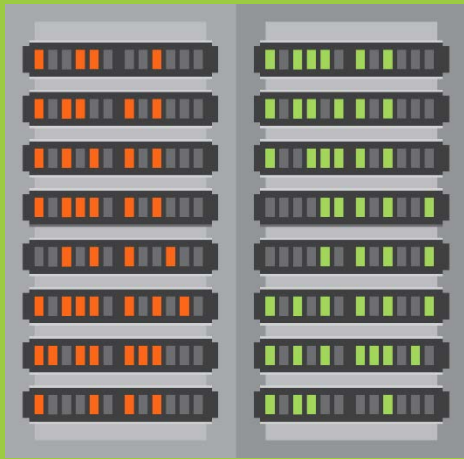


Why Big Data Exists

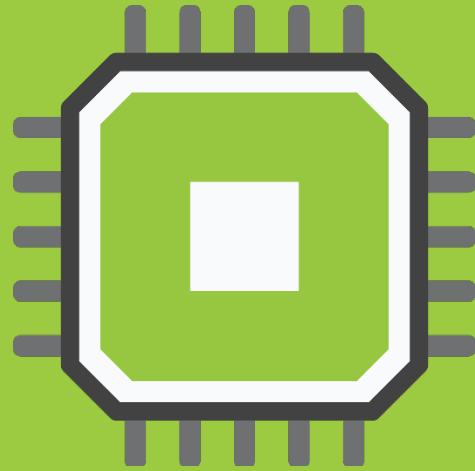


Big Data exists because today's technology generates incredible volumes of data in a variety of formats needing to be processed in frequent intervals.

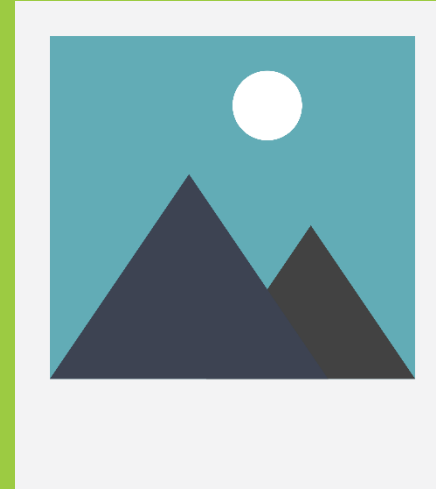
Data Variety



Web Logs



Sensor Data



Multimedia



Cloud Apps

Data Volumes **per minute!**

Facebook

2.4M Shares

YouTube

72hrs Video

Google

4M Searches

Velocity of Data

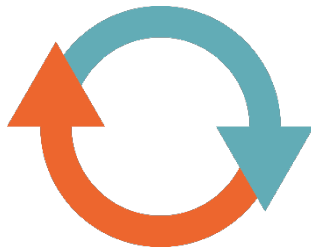
Stock Markets

Manufacturing

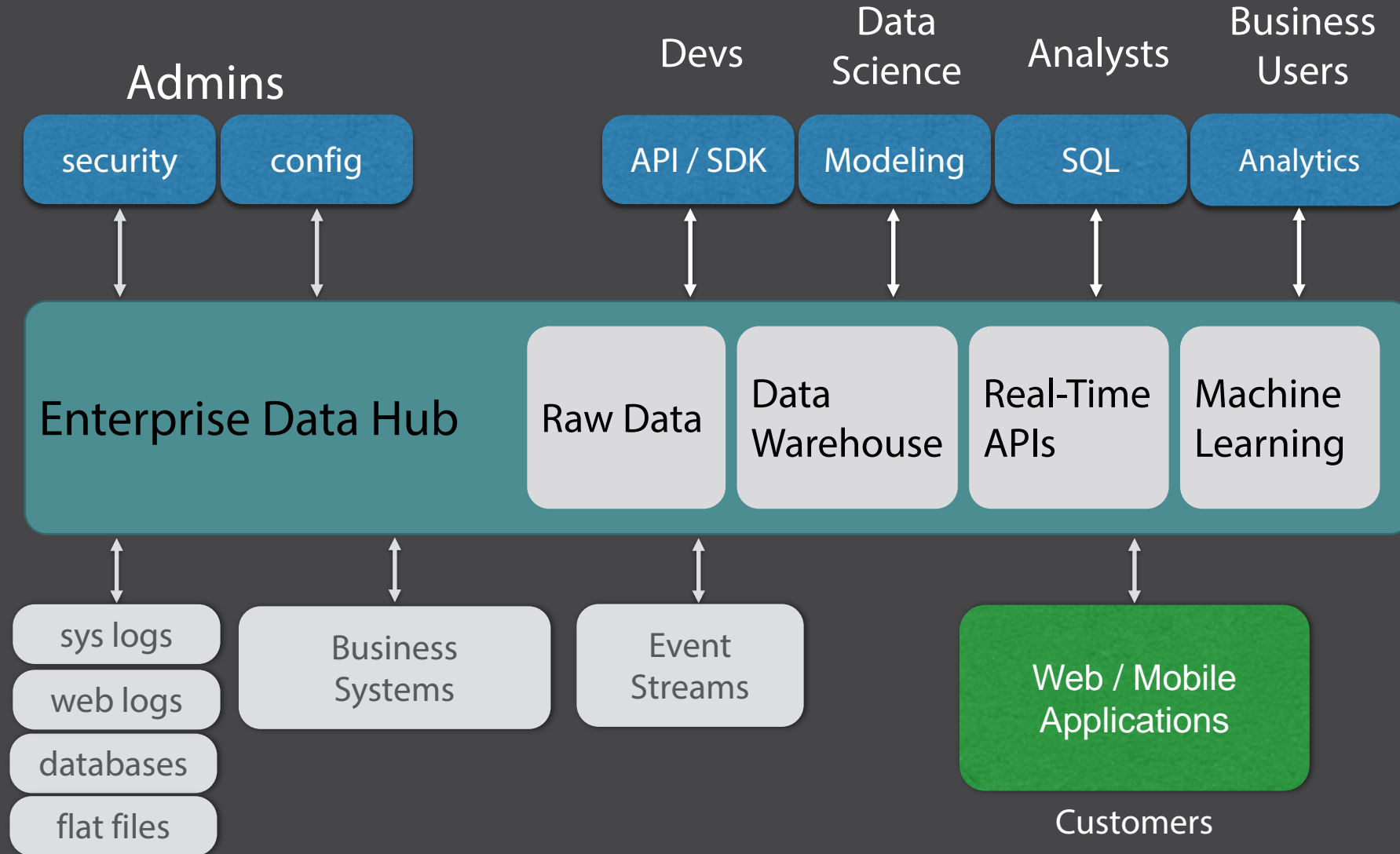
Business Events

Telecom
Providers

How Big Data Works

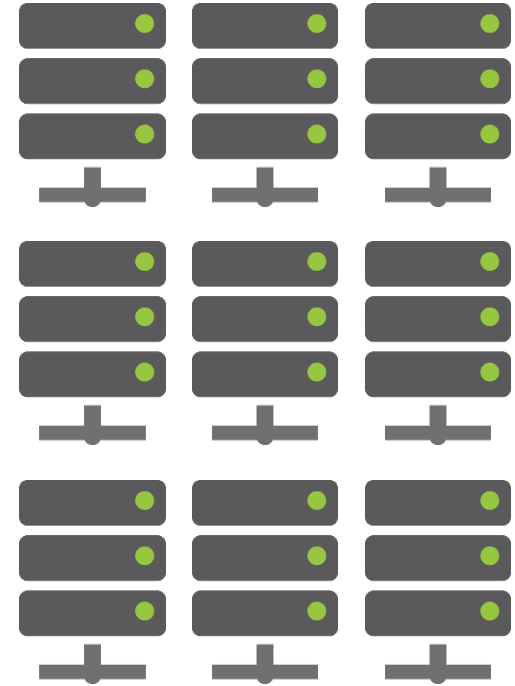


By handling any format of data in real-time and at large scales, Big Data systems can now meet the needs of current technologies.



Key Concept: Distributed Computing

Support Service



Key Concept: CAP Theorem

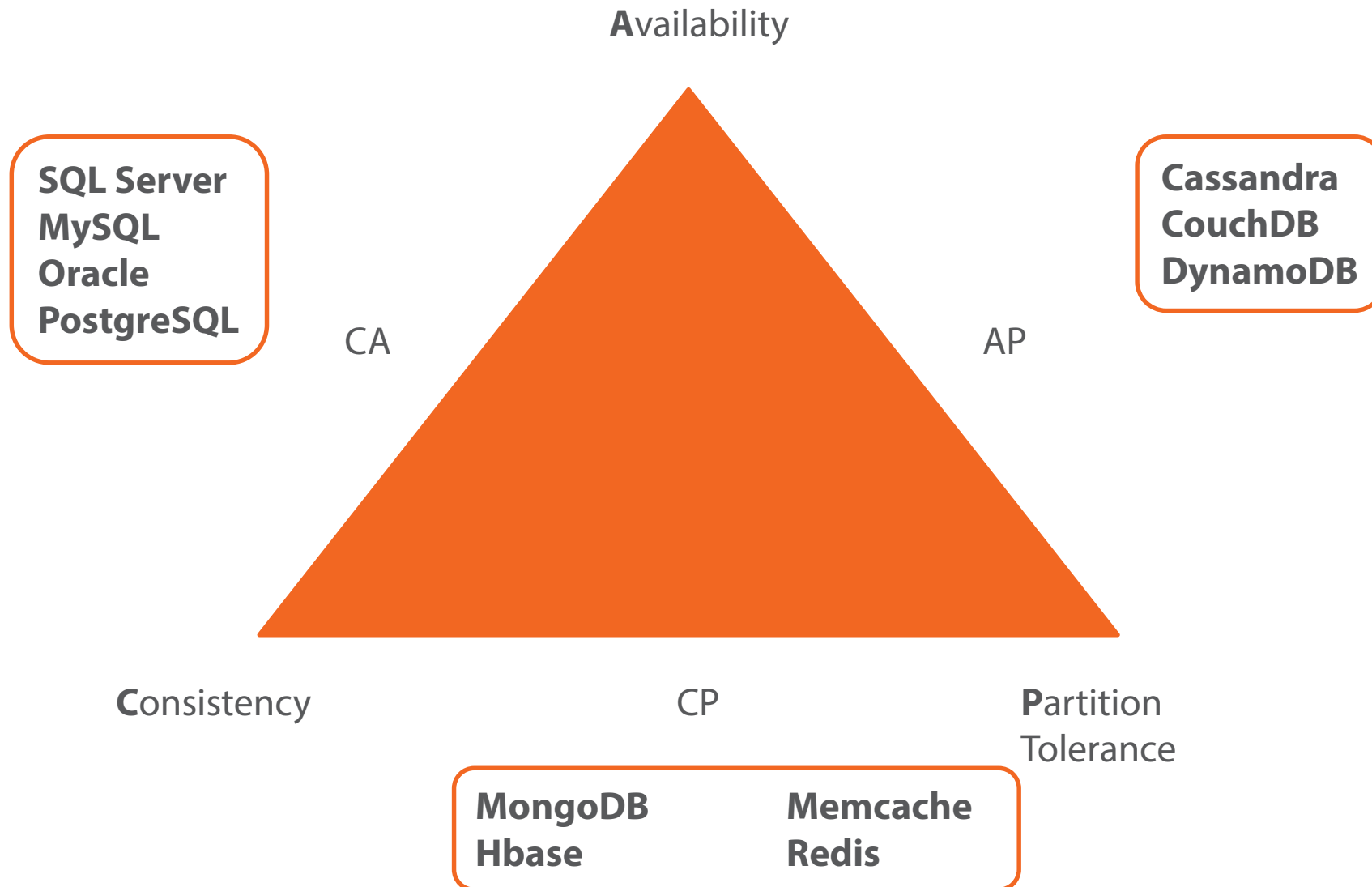
CAP Theorem



Consistency

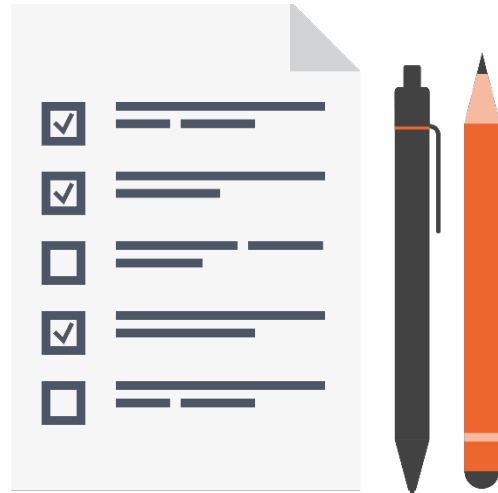
Availability

Partition Tolerance



Where to Find More

Additional Resources



Pluralsight Courses:

- **Big Data Analytics with Tableau**
- **Big Data: The Big Picture**
- **Big Data and Reporting with MongoDB**
- **Big Data on Amazon Web Services**