

THOMAS NGUYEN

ACM'S CLOUD COMPUTING WORKSHOP

GOALS

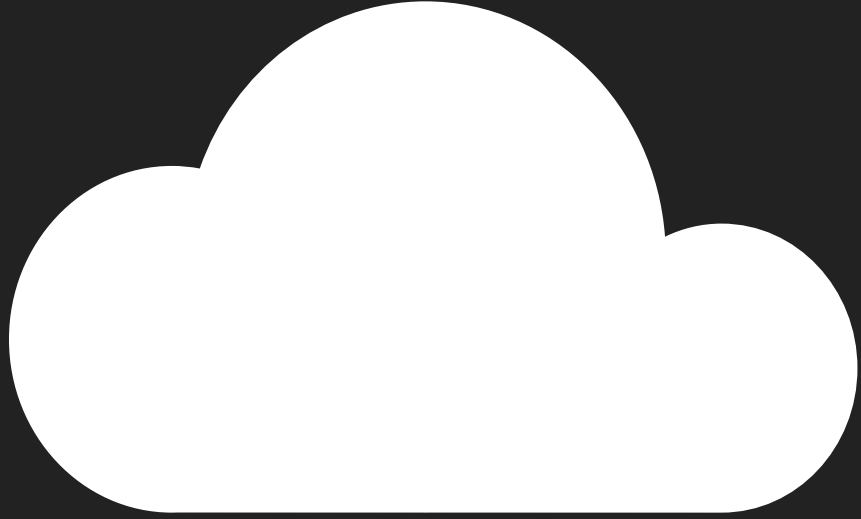
AGENDA

- ▶ What is the “Cloud”?
- ▶ Benefits of the Cloud
- ▶ Amazon Web Services (AWS)
- ▶ Deploying Example Applications
- ▶ The Cloud at Scale









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Google™



Google's massive data centers are located in **13 locations** around the world.



Responsible for approximately **.01% of global energy usage.**
(enough to continuously power 200,000 homes)

BENEFITS TO CLOUD COMPUTING

- ▶ Putting your app or info on another computer
- ▶ Have your app or database service running somewhere else in just minutes
 - ▶ *"Spinning up an instance"*
- ▶ Pay as you go, instead of buying servers upfront
- ▶ Scale up & down as needed

aws





Compute

Storage

Database

Machine Learning

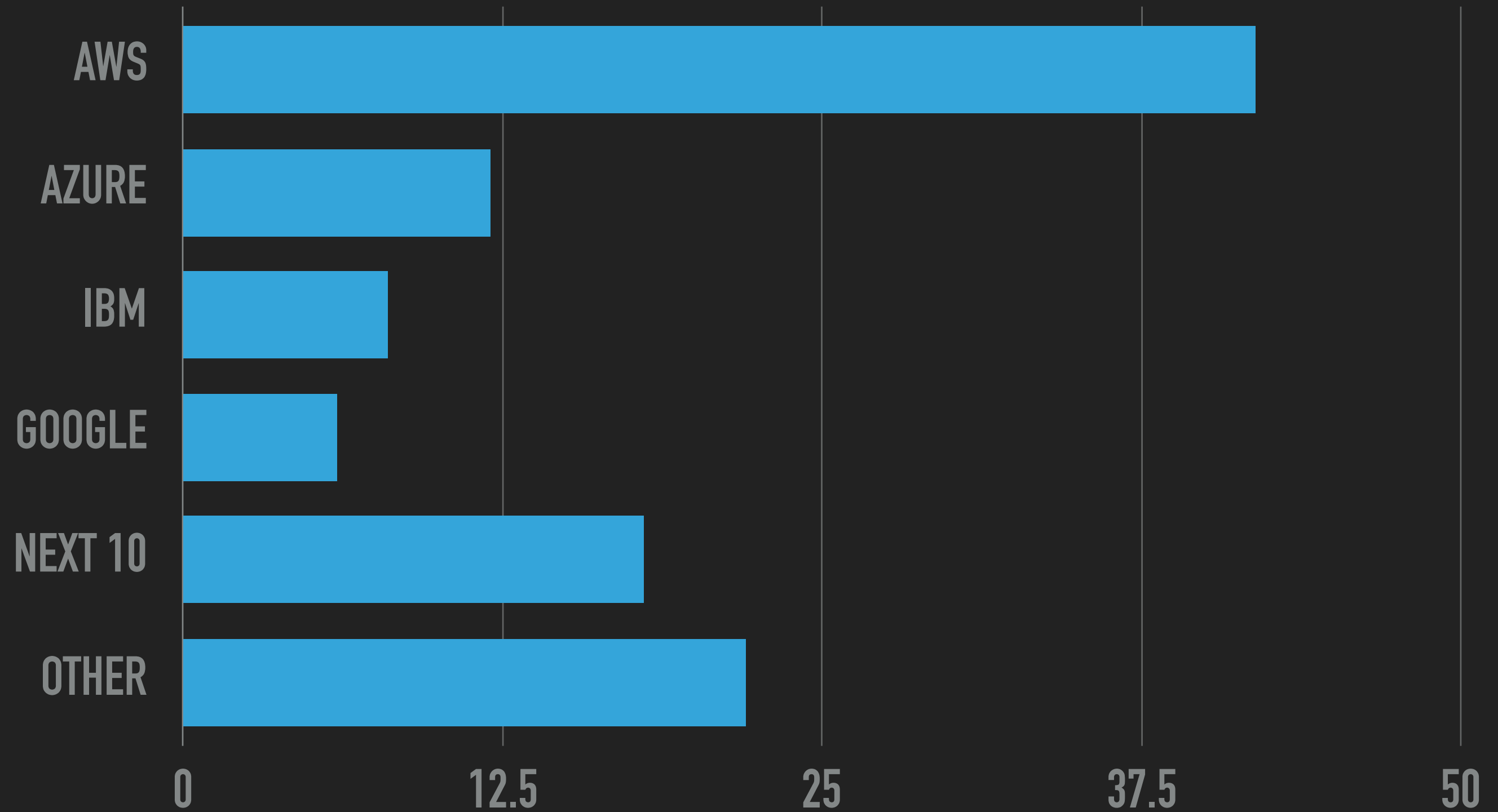
Augmented Reality

Virtual Reality

Internet of Things

Analytics

And more!!



DEPLOYING YOUR APPLICATION

I REALLY WANTED TO USE THIS SICK SLIDE

**[HTTPS://GITHUB.COM/SCUACM/
CLOUD-COMPUTING-TUTORIAL](https://github.com/SCUACM/CLOUD-COMPUTING-TUTORIAL)**

Thomas Nguyen

THE CLOUD AT SCALE

THE CLOUD AT SCALE

- ▶ Not limited to the use of a single server
 - ▶ Amazon's Virtual Private Cloud
 - ▶ Creation of distributed systems