

# Schedule

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**Lecture 8. AWS & Visualization (today)**

**Lecture 9. Proposal Presentation (next week)**

**Lecture 10. Data Labeling & Feature Selection (next next week)**

# Lecture 8-1: Introduction to AWS

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CMPT 733, SPRING 2017

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# Amazon

## From Wikipedia 2006

Article **Talk** Head

### Amazon.com

From Wikipedia, the free encyclopedia

This is an **old revision** of this page  
05:10, 20 March 2006 (*→Customer  
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**Amazon.com**  
(NASDAQ: [AMZN](#)) is an  
American electronic commerce  
company based in [Seattle](#),  
[Washington](#). It was one of the

## From Wikipedia 2016

### Amazon.com

From Wikipedia, the free encyclopedia

*Further information: [Timeline of Amazon](#)*

**Amazon.com, Inc.** (/ˈæməzɒn/ or /ˈæməzən/), often referred to as simply **Amazon**, is an American **electronic commerce** and **cloud computing** company with headquarters in [Seattle, Washington](#). It is the

# What is Cloud Computing?

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## The buzz word before “Big Data”

- [Larry Ellison’s response in 2009](#)
- [Berkeley RADLab’s paper in 2009](#)

## A technical point of view

- Internet-based computing (i.e., computers attached to network)

## A business-model point of view

- Pay-as-you-go (i.e., rental)



# Three Types of Cloud Computing

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CourSys

Application + Cloud = **SaaS** (Software as a service)

Database

Platform + Cloud = **PaaS** (Platform as a service)

Servers

Infrastructure + Cloud = **IaaS** (Infrastructure as a service)

# How does AWS fit into the picture?

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## IaaS

- EC2, S3, ...
- Highlight: EC2 and S3 are two of the **earliest** products in AWS

## PaaS

- Aurora, Redshift, ...
- Highlight: Aurora and Redshift are two of the **fastest** growing products in AWS

## SaaS

- WorkDocs, WorkMail
- Highlight: May not be the main focus of AWS

# Why does AWS succeed?

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## **Starting from IaaS (i.e., S3 and EC2) is the key**

- Although there are many SaaS and PaaS companies before AWS, in most of the time, people still want to have a full control of computing resources

## **10-100 less expensive than alternatives (2006)**

- Apply the existing \*unused\* resources (that are for Amazon.com) to cloud computing

## **The speed of provisioning is really fast**

- Similar to “1-click buy”

# Summary

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## **Big Picture**

- Cloud Computing
- SaaS, PaaS, and IaaS

## **AWS**

- Putting AWS into the big picture
- Why does AWS succeed?



# Assignment 8

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## Part 1: Amazon Web Services (AWS)

- Task A.1: Launching an Amazon EC2 Instance
- Task A.2 : Running an iPython Notebook Server on EC2
- Task A.3: Transferring Files between S3 and Local Machine
- Where To Go From Here (Optional)

**Deadline: 11:59pm, Mar 12th**

<http://tiny.cc/cmpt733-a8>