

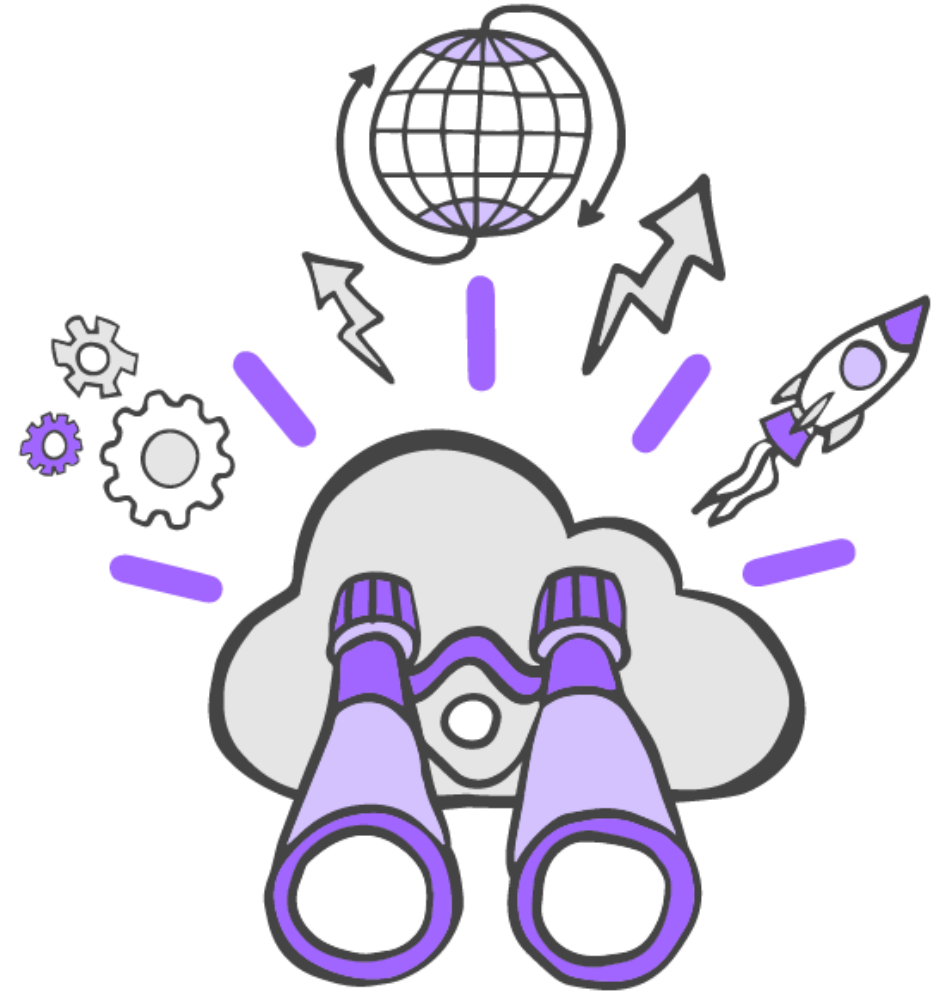


19Q4 Cloud Ambassador and Educator Meetup

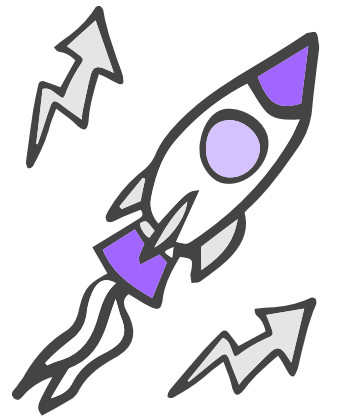
James Tsai

AWS Educate BDM

12/13/2019



AWS Educate Benefits



- AWS Promotional Credits to encourage hands-on learning with AWS services, and credit card not required
- 12 cloud career pathways + 11 digital badges that come with certificate and badge upon completion
- Free cloud-related content, 50% discount on certification and Technical Essential course (\$600 market value) available for Educators
- Job board with opportunities mapped to the cloud career learning pathways



**Curated, Open-source
Content**



**Certificate and
Badges**

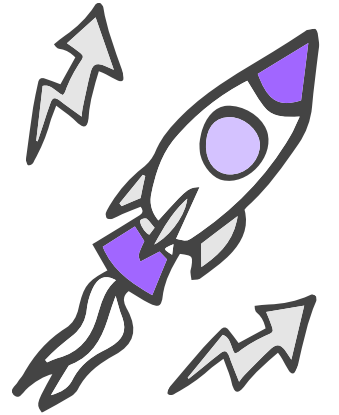


**AWS Promotional
Credits**



Job Board

Educate FAQs

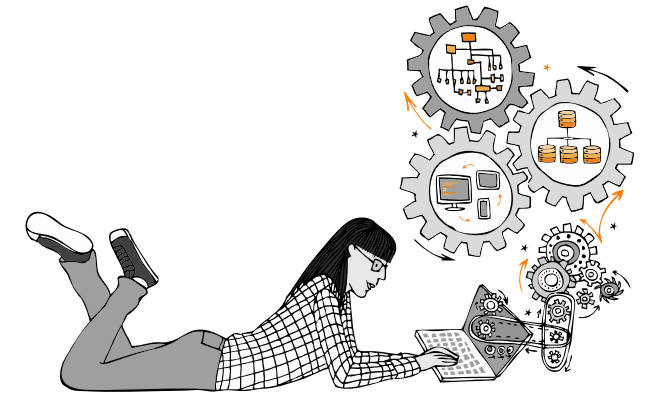


Problem

Wanted to integrate Educate into the courses but doesn't know where to start

Solution

Educator enablement through assets and training

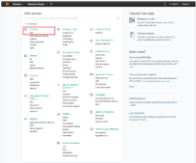


Example: 10-Minute Tutorials on AWS Website

Step 1. Get Students started with a 10-minute tutorial to get hands-on with AWS product:

<https://aws.amazon.com/getting-started/tutorials/>


Step 2. Students practice using AWS products step by step (for AWS Standard account users only)



(click to zoom)

Step 1: Enter the EC2 Dashboard

When you click [here](#), the AWS management console will open in a new browser tab, so you can keep this tutorial open. Find **EC2** under **Compute** and click to open the Amazon EC2 Console.




(click to zoom)

Step 2: Create and Configure Your Virtual Machine

a. You are now in the Amazon EC2 console. Click **Launch Instance**

b. With Amazon EC2, you can specify the software and specifications of the instance you want to use. In this screen, you are shown options to choose an Amazon Machine Image (AMI), which is a template that contains the software configuration required to launch your instance.



(click to zoom)

Step 3: Create a Key Pair and Launch Your Instance

To connect to your virtual machine, you need a key pair. A key pair is used to log into your instance (just like your house key is used to enter your home).


a. In the popover, select **Create a new key pair** and name it **MyFirstKey**. Then click **Download Key Pair**. MyFirstKey.pem will be downloaded to your computer -- make sure to save this key pair in a safe location on your computer.

- Windows users:** We recommend saving your key pair in your user directory in a sub-directory called `ssh` (ex `C:\user\[yourusername]\ssh\MyFirstKey.pem`).
- Mac/Linux users:** We recommend saving your key pair in the `ssh` sub-directory from your home directory (ex `~/ssh/MyFirstKey.pem`).


Note: If you don't remember where you store your SSH private key (the file you are downloading), you won't be able to connect to your virtual machine.

Step 3. Check student's Console from AWS Educate "Classroom" service when essential


Your Classroom Account Status



Active
full access (awseducatesa@cloud.com)



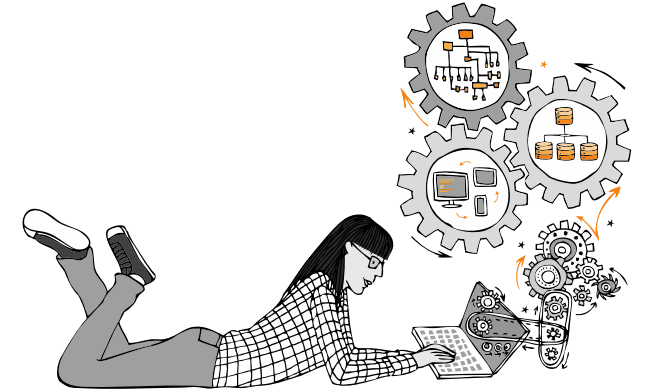
\$10
remaining credits (estimated)



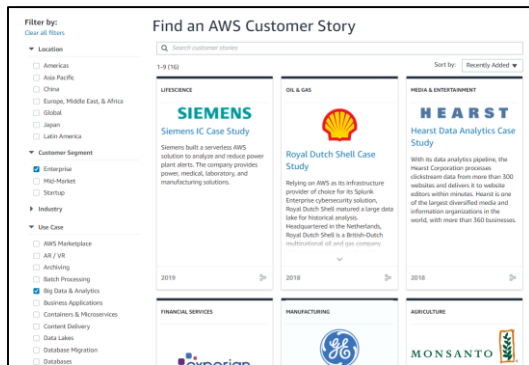
0:57
session time

[Account Details](#)
[AWS Console](#)

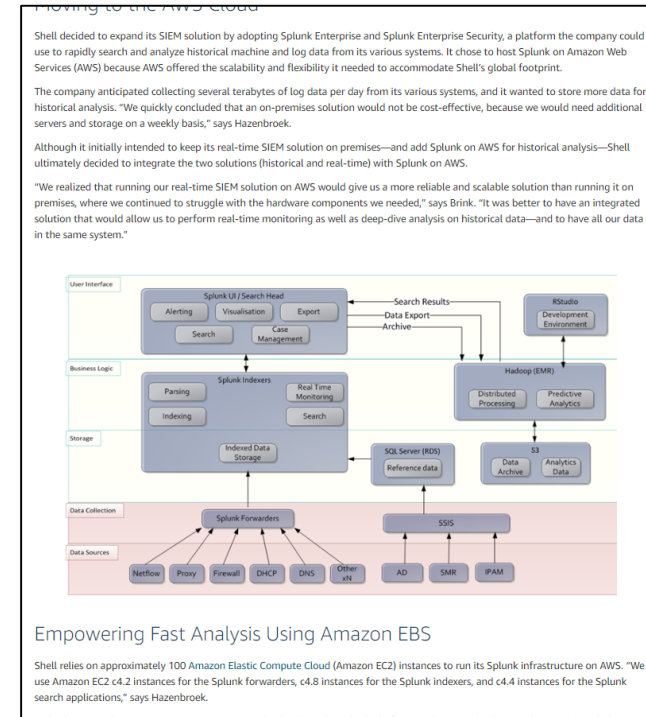
Example: Case Study Materials



- Step 1. Go to AWS Customer Success website (<https://aws.amazon.com/solutions/case-studies/>)
- Step 2. Filter through Use Case or Service Used, depending on specific topic you want to teach

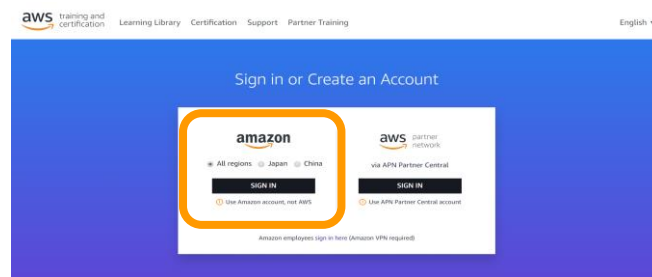


- Step 3. Feel free to use customer stories, architecture, and all additional resources when designing courses.

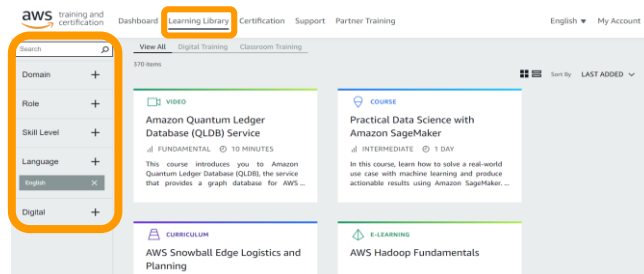


Example: Training & Certification Materials

Step 1. Create an Amazon account for “AWS training and certification”: <https://www.aws.training/>



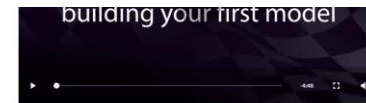
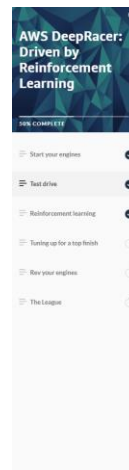
Step 2. Learning Library > filter with “Domain, Role, Skill Level, Language, and Digital” > Launch Video



Step 3. Training Videos can be played in class or used as students self learning materials

Tips: Use those materials and do hands-on practice on Educate platform

For some sessions, there are assigned hands-on exercise, and students can complete those exercises on AWS Educate platform by using free credits.

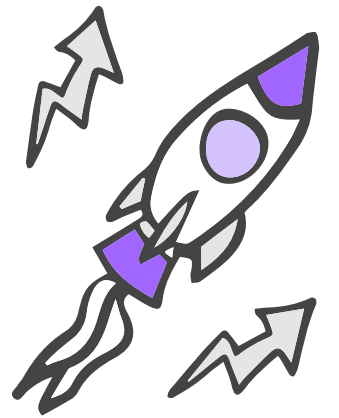


Hands-on Exercise 1: Model Training Using AWS DeepRacer Console

This is the first of four exercises that you will encounter in this course. This first exercise guides you through building, training, and evaluating your first RL model using the AWS DeepRacer console. To access the instructions for these exercises, download and unzip this course package. For this particular exercise, find and open the relevant PDF file and follow the steps within to complete the exercise.

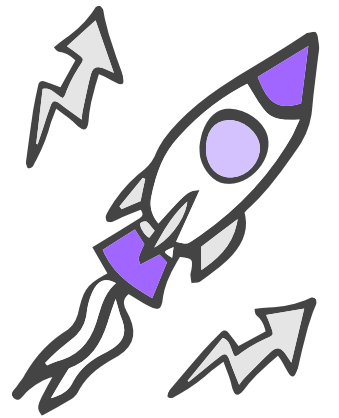
**Note: This exercise is designed to be completed in your AWS account. AWS DeepRacer is part of AWS Free Tier, so you can get started at no cost. For the first month after sign-up, you are offered a monthly free tier of 10 hours of Amazon SageMaker training and 40 simulation units of Amazon RoboMaker (enough to cover 10 hours of training). If you go beyond those free tier limits, you will accrue additional costs. For more information, see the [AWS DeepRacer Pricing page](#).*





Potential Collaboration Events

Event	Description	Length	Minimum attendees
University AWSome Day (UAD)	For member institutes students, a half-day free AWS training on AWS core services (certificate for completion will be provided)	3 hrs	250+
In-class Intro	AWS Overview, Educate program Intro	2 hrs	120
Educate Workshop	Demo how to register/use Educate portal and functions	1 hr	TBD
Hackathon	Credits support and introductory sessions	TBD	200+
Career Pathway Competition	Students compete for AWS Educate Career Pathway completion and Certificate will be granted for the winners	1 month	50
Career Sharing	Sharing AWS & Cloud related jobs working experiences	1 – 2 hrs	50+



Educate FAQs

Problem

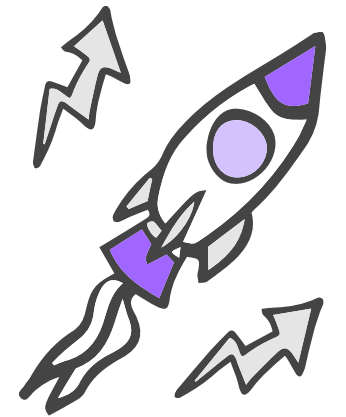
Wanted to integrate Educate into the courses but doesn't know where to start

Wanted more features in Educate platform

Solution

Educator enablement through assets and training

Improvements are coming



Changes to Educate Account

Then

Standard Account

- \$100 credits per year (Students); \$200 (Educators)
- No limit on AWS services

Starter Account

- \$75 credits per year (Students); \$150 (Educators)
- limit on certain functionality
- **No Credit Card needed**

Now

Now

Standard Account

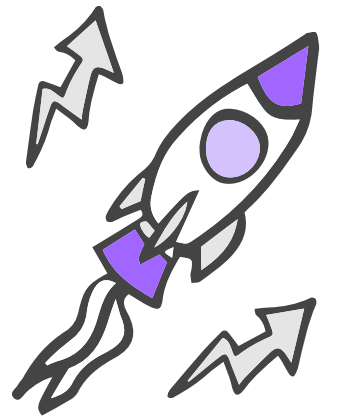
- ~~\$100 credits per year~~ (Students); \$200 (Educators)
- No limit on AWS services

Starter Account

- ~~\$75~~ **\$100** credits per year (Students); \$150 (Educators)
- limit on certain functionality
- **No Credit Card needed**

Why the change?

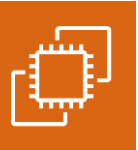
- Majority of Students chose Starter Accounts, and we decided to give more benefits to them
- Streamline registration process so Students will not be confused with two types of accounts



Upgrades to Starter Account!

Then

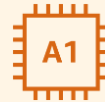
Now



EC2

Supported Types: t2, m4, c4, c5, m5

Supported Types: t2, m4, c4, c5, m5, a1



IAM

- No ability to create policies
- No ability to create users and groups
- No ability to create inline policies

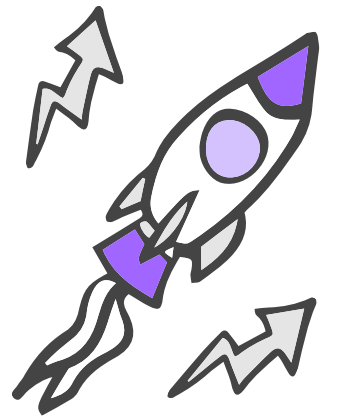
- Can create users, but cannot associate login profile or access keys
- Can now create policies and groups



CloudFormation

Scripts that create a IAM policy or a role will fail

All features supported



Educate FAQs

Problem

Wanted to integrate Educate into the courses but doesn't know where to start

Wanted more features in Educate platform

Difficult to get the visibility into her students' work

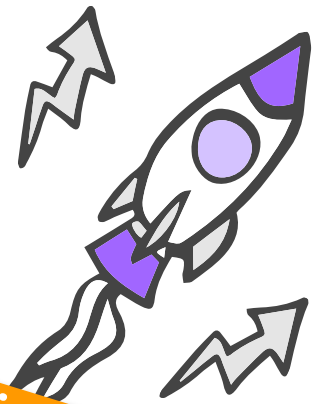
Solution

Educator enablement through assets and training

Improvements are coming

Leverage Classroom!

Classroom



Simplified
bulk reg.

Additional
\$50 credit

Look/control
student console

Simplify Services
available

1 Select Classroom Template (maximum 3)

AWS Cloud Basics
Services enabled: EC2, S3, RDS, Cloud9, CloudFormation, Tag

Use the AWS Cloud Basics to introduce students to fundamentals of AWS and to cloud computing concepts. Student can get their first Linux instance up in the cloud with EC2, store and access file to create a static web site using S3, create and operate their first database using RDS, and learn about security and access control with IAM.

Big Data
Services enabled: EC2, Athena, Glue, RDS, S3, Cloud9, CloudFormation, Tag

Teach big data applications, fraud detection, recommendation systems, internet-of-things provisioning EMR cluster, and machine learning. Learn S3, Athena, Glue, and EMR.

Machine Learning and AI
Services enabled: Machine Learning, Rekognition, Lex, Polly, Comprehend, Translate, Transcribe, SageMaker, DeepLens, IOT Core, IOT GreenGrass, Cloud9, CloudFormation, Tag

Build a chatbot, access voice services with Lex and Polly, use image Rekognition, or use sophisticated machine learning models tools like MXNet and Tensor flow to create general predictions with the Machine Learning template. Use deepLens camera with deepLens service, or try out new AI services such as Forecast and Personalize.

Building Scalable Websites
Services enabled: EC2, S3, RDS, ELB, Cloud9, CloudFormation, Tag

Introduce students to building and hosting scalable, elastic websites on AWS. Use EC2 for compute, S3 to store site content, and ELB to dynamically scale based on demand.

Serverless Computing
Services enabled: Lambda, API Gateway, S3, DynamoDB, Cloud9, CloudFormation, Tag

Get students started with serverless computing using lambda on AWS for web applications, backends, and data processing apps. Serverless applications don't require students to provision, scale, and manage any servers and can be built for nearly any type of application or backend service. Everything required to run and scale an application is managed by AWS.

RoboMaker
Services enabled: RoboMaker, Lambda, API Gateway, Kinesis Analytics, Kinesis, EC2, S3, Lex, Polly, DynamoDB, Cloud9, CloudFormation, Tag

Learn the fundamentals of robotics development using AWS RoboMaker, then deploy capabilities to your own robots. RoboMaker extends ROS with connectivity to cloud services, provides a cloud based development environment, a robotics simulation service, and a robotics fleet management.

Your Classroom

Active
full access (awseducatesa@icloud.com)

\$10
remaining credits (estimated)

0:57
session time

[Account Details](#)[AWS Console](#)

Services Resource Groups

AWS services

Find a service by name or feature (for example, EC2, S3 or VM, storage).

Recently visited services

- Amazon Connect
- Amazon Lex
- Amazon Polly
- Amazon Transcribe
- EC2

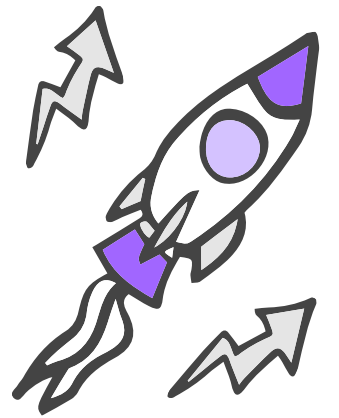
All services

Cloud 101 (Ends - Oct 15 2020)

Action Line selected: --- / Activate user ... nothing is done, please select a row first

	name	status	part	group	account	budget	expense	Dec 19	Nov 19	Oct 19	Sep 19	Aug 19	Jul 19	Jun 19	May 19	Apr 19	Mar 19	Feb 19	Jan 19
1	[reserved-course-account]	-	-	-	352494642612	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	r08741044@ntu.edu.tw	activated	-	-	354166102225	50	0	0	0	0	0	0	0	0	0	0	0	0	0
3	ctsai+minor@amazon.com	activated	-	-	427991519676	50	0	0	0	0	0	0	0	0	0	0	0	0	0
4	ctsai@amazon.com	activated	-	-	694928415201	50	0	0	0	0	0	0	0	0	0	0	0	0	0

Track student
progress through
Dashboard



Educate FAQs

Problem

Solution

Wanted to integrate Educate into the courses but doesn't know where to start

Educator enablement through assets and training

Wanted more features in Educate platform

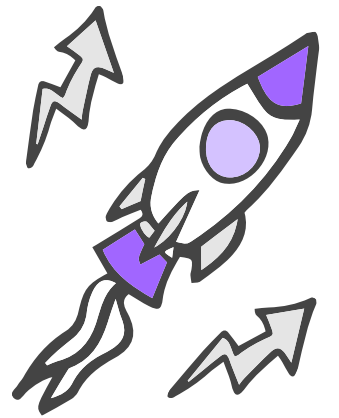
Improvements are coming

Difficult to get the visibility into her students' work

Leverage Classroom!

Doesn't know where to get help

Customer Support, Educate Team and fellow Educators!



Who to talk to?

Customer Support

<https://aws.amazon.com/education/awseducate/contact-us/>

- 無法註冊帳號, 收到申請被拒絕的email
- 學生收不到welcome email, password reset email (所以盡量不要忘記密碼, 重設很麻煩)
- Starter 轉成 Standard
- 申請額外 credits (可在 AWS Educate Educator Portal 申請)
- 申請Classroom細節, Classroom申請進度查詢

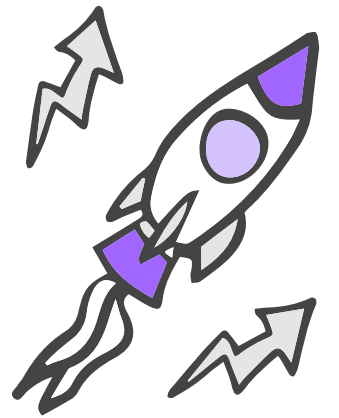
Educate Team

- 欲舉辦 In-class-training, UAD, 等等活動
- 有多位老師對於 AWS Educate 有興趣, 到校介紹會議安排
- 有其他 AWS 業務需求



Cloud Ambassador

Name	Title
黃懷陞	助理教授, 輔仁大學資管系
吳如娟	副教授, 逢甲大學企管系
李季青	助理教授, 長庚大學資訊工程學系
李亦君	副教授, 文化大學資訊傳播學系
謝佳奮	助理教授, 朝陽科技大學資訊與通訊學系
武士戎	教授, 淡江大學資訊創新與科技學系
魏澤人	副教授, 東華大學應用數學系



So, which Stage are you in?

