

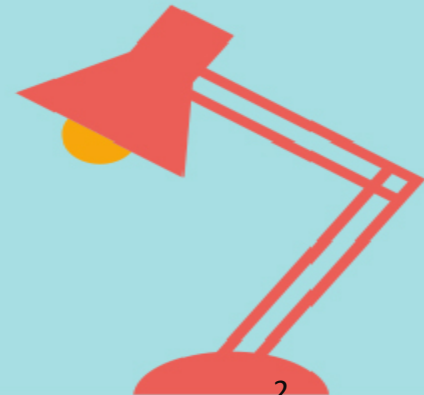
A stylized illustration of a row of books on a shelf. The books are in various colors (white, red, blue, yellow) and some have decorative patterns like stripes or a diamond. They are arranged in a slightly staggered manner.

2022-Spring Advanced Computer Programming

CSIE, Asia Univ.

Outline

- Course regulations
- Course schedule
- Course material
- Course tool



Course regulations

- The midterm is for individual grades, and the final is for group grades.
- AWS license can add points: CCP, SAA, SDA, etc.
- Midterm: 2-3 PythonAnywhere assignments
- The Final: 1 AWS project with using various AWS services
- Score baseline: AWS Lambda+ AWS S3



Course schedule

- W1-Introduction
- W2-Python urllib
- W3-BeautifulSoup
- W4-Web Crawlers
- W5-Scrapy
- W6-Storing Data
- W7-Flask Routes
- W8-Jinja template
- W9-Midterm presentation
- W10-Flask-Mail
- W11-REST API
- W12-AWS Lambda + S3 (1)
- W13-AWS Lambda + S3 (1)
- W14-AWS Glue Data
- W15-AWS Step Functions
- W16-AWS Elastic Beanstalk
- W17-Sample app-Book Recommender
- W18-Final presentation



Course Github

htchu / ACP110EnCourse Public

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

htchu Init-20220204 bf9a51c 38 seconds ago 2 commits

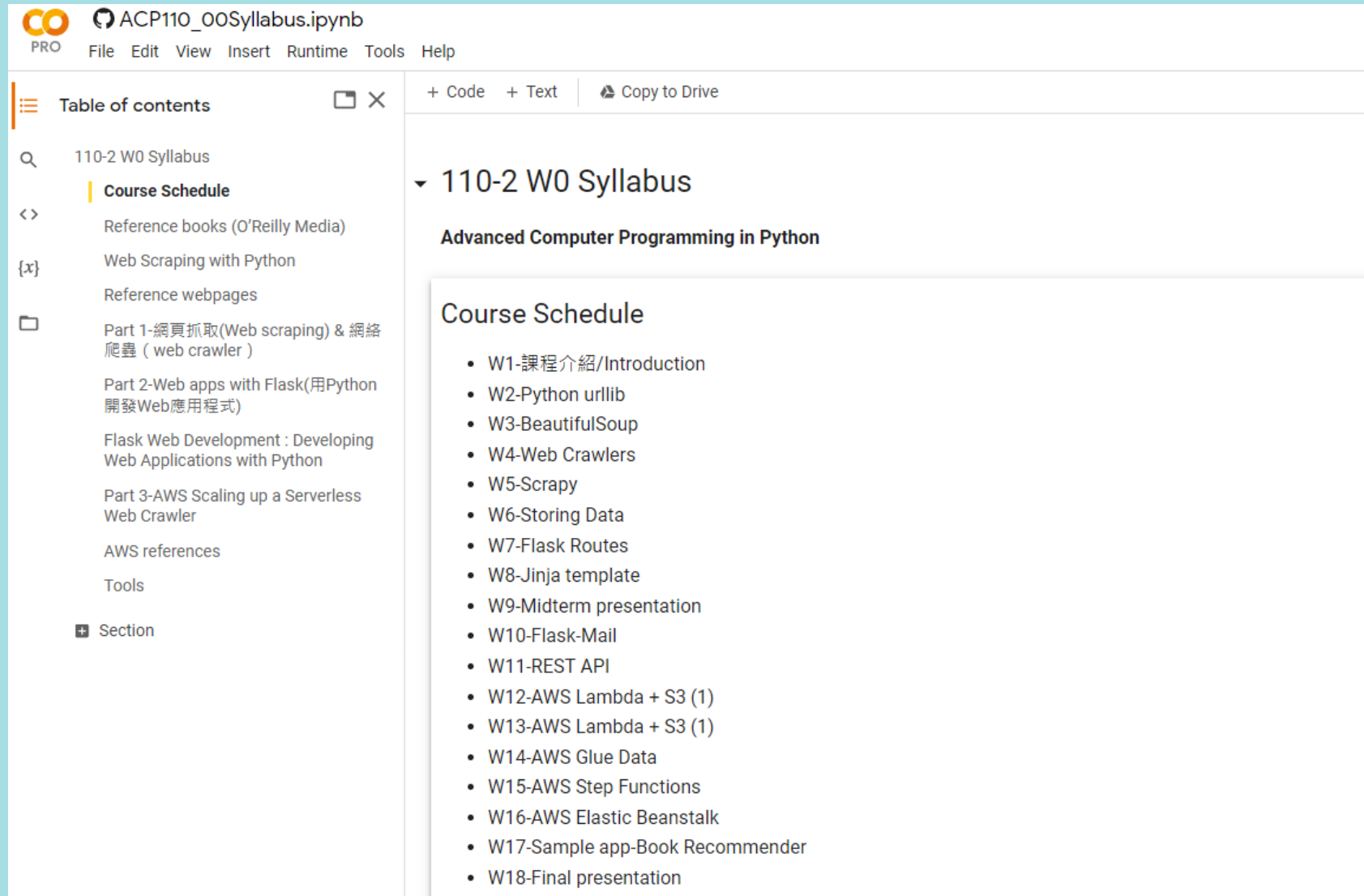
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notebooks	Init-20220204	38 seconds ago
slides	Init-20220204	38 seconds ago
README.md	Initial commit	3 minutes ago

README.md

ACP110EnCourse

Advanced Computer Programming@Asia Univ.

Colab+Github

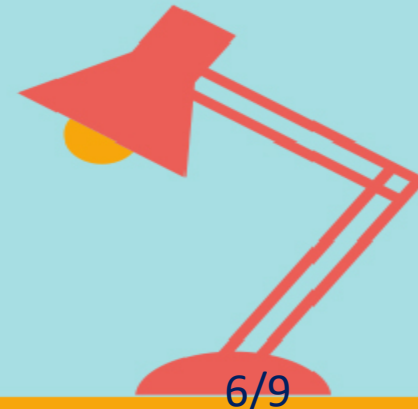


The screenshot shows a Google Colab notebook titled "ACP110_00Syllabus.ipynb". The interface includes a top menu bar with "File", "Edit", "View", "Insert", "Runtime", "Tools", and "Help". Below the menu is a toolbar with icons for "Table of contents", "Code", "Text", and "Copy to Drive". The "Table of contents" panel on the left lists the following sections:

- 110-2 W0 Syllabus
 - Course Schedule
 - Reference books (O'Reilly Media)
 - Web Scraping with Python
 - Reference webpages
 - Part 1-網頁抓取(Web scraping) & 網絡爬蟲 (web crawler)
 - Part 2-Web apps with Flask(用Python 開發Web應用程式)
 - Flask Web Development : Developing Web Applications with Python
 - Part 3-AWS Scaling up a Serverless Web Crawler
 - AWS references
 - Tools
- Section

The main content area displays the "110-2 W0 Syllabus" section, which includes the title "Advanced Computer Programming in Python" and a "Course Schedule" list:

- W1-課程介紹/Introduction
- W2-Python urllib
- W3-BeautifulSoup
- W4-Web Crawlers
- W5-Scrapy
- W6-Storing Data
- W7-Flask Routes
- W8-Jinja template
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- W14-AWS Glue Data
- W15-AWS Step Functions
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AWS Certification

Professional

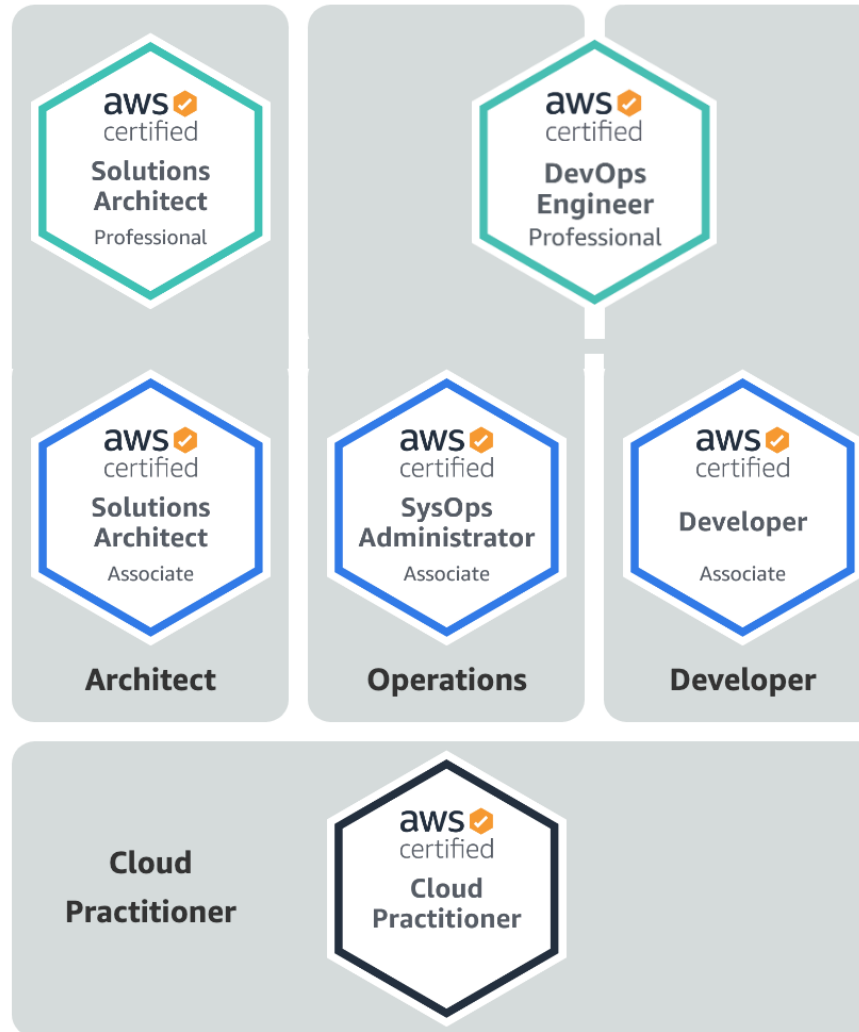
Two years of comprehensive experience designing, operating, and troubleshooting solutions using the AWS Cloud

Associate

One year of experience solving problems and implementing solutions using the AWS Cloud

Foundational

Six months of fundamental AWS Cloud and industry knowledge










Specialty

Technical AWS Cloud experience in the Specialty domain as specified in the exam guide




AWS Academy




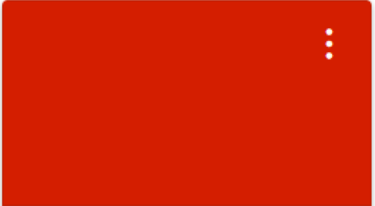
Dashboard

Published Courses (12)





AWS Academy Cloud Foundations...
ACFv2CN-11232






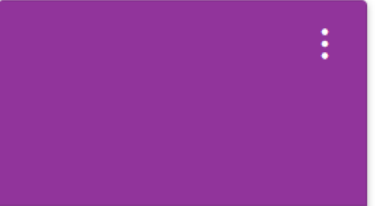
AWS Academy Introduction to Clo...
AICv1Sem1EN-11234






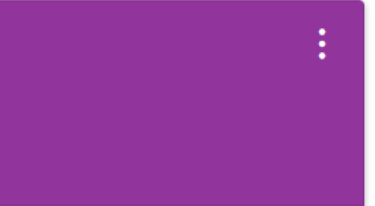
AWS Academy Learner Lab - Foun...
ALLFv1-11231









AWS Academy Cloud Architecting...
ACAv2EN-13169 - Workshops








AWS Academy Cloud Foundations...
ACFv2EN-Educator-3781








AWS Academy Data Center Techni...
ADCTv1EN-Educator-12156









AWS Academy Engineering Opera...
AEOTv1EN-10658-Educator








AWS Academy Introduction to Clo...
AICv1Sem1EN-4354-Educator








AWS Academy Introduction to Clo...
AICv1Sem2EN-9509-Educator



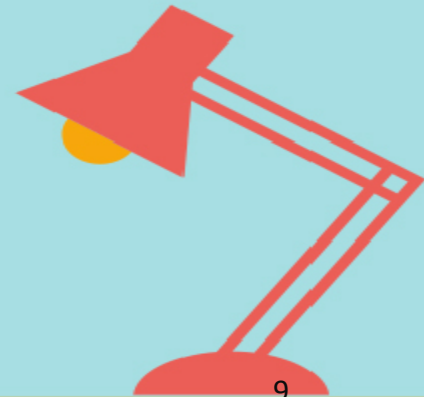


AWS Academy Machine Learning ...
AMLFv1EN-Educator-3790

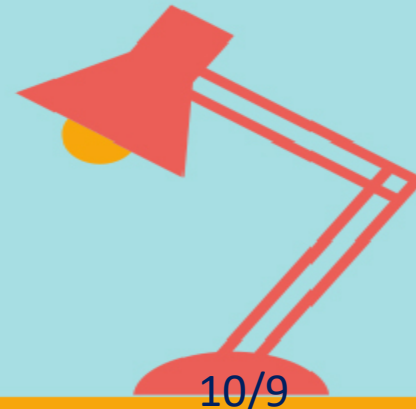
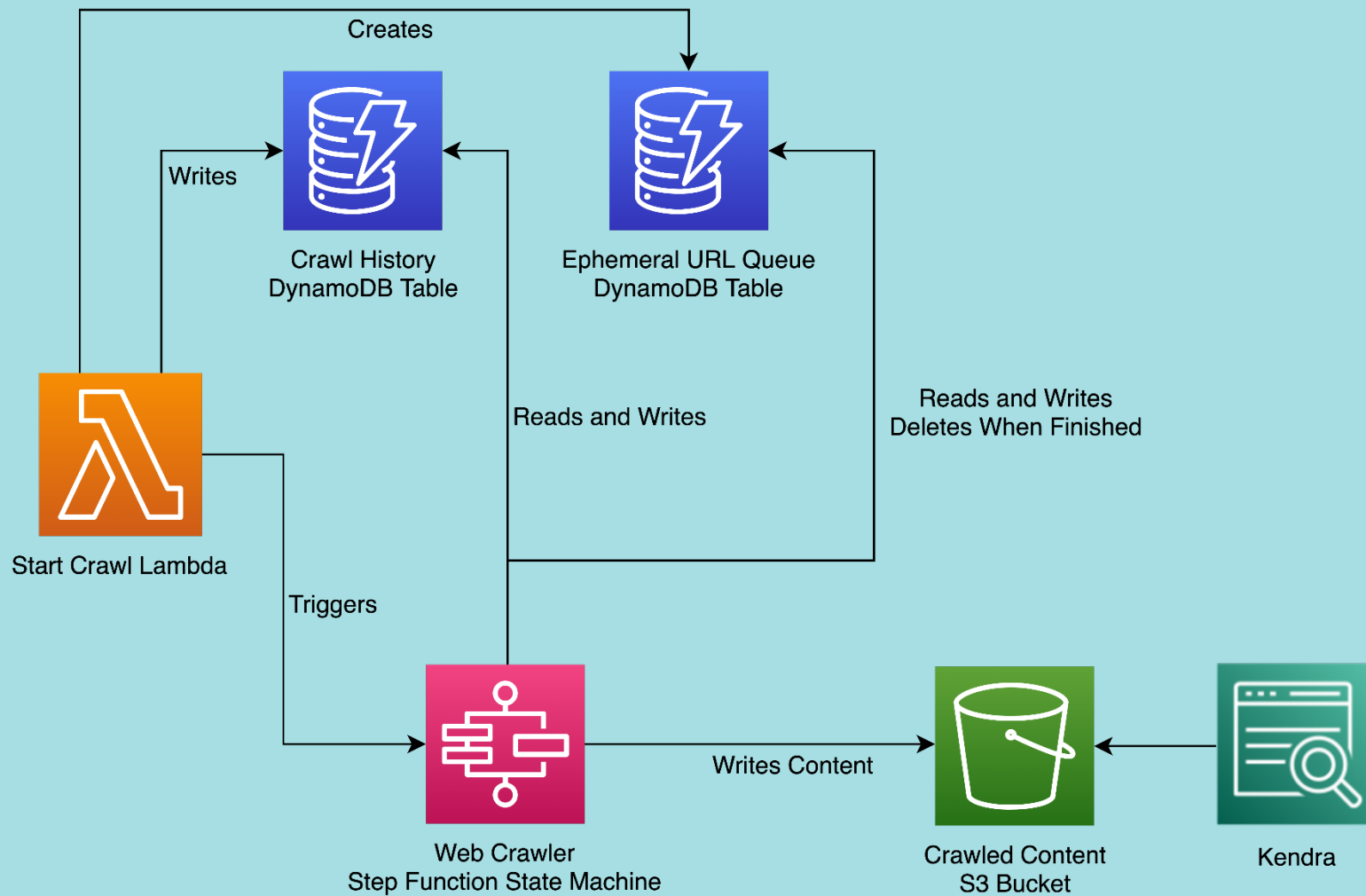


Course

- **AWS Academy Introduction to Cloud**
 - (En) AICv1Sem1EN-11234
 - (Cn) ACFv2CN-11232
- **AWS Academy Cloud Architecting**
 - (En) ACAv2EN-13169
 - (Cn) ACAv2CN-7562
- **AWS Academy Cloud Developing**
 - (Cn) ACDv1CN-12029



AWS Serverless Application Model



AWS Free Tier

AWS Free Tier

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Types of offers

Explore more than 100 products and start building on AWS using the Free Tier. Three different types of free offers are available depending on the product used. Click icon below to explore our offers.



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Short-term free trial offers start from the date you activate a particular service



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Always free

These free tier offers do not expire and are available to all AWS customers

AWS Free Tier Product Categories

The AWS Free Tier includes services across many AWS product categories to allow customers to get started.



AI/ML

Build, deploy, and run machine learning applications in the cloud



Compute

Instances, containers, and serverless computing



Databases

Build, deploy, and run database applications in the cloud



Webapps

Build, deploy, and manage websites and webapps in the cloud



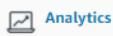
Storage

Deploy storage and content delivery solutions in the cloud



Migration

Migrate Your On Premise Workloads to AWS



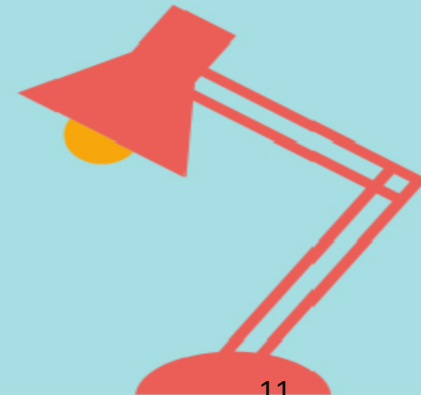
Analytics

The fastest way to get answers from all your data to all your users



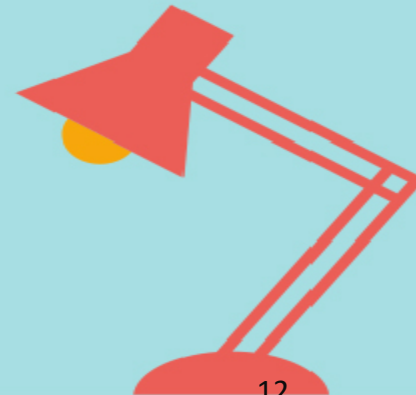
IoT

IoT services for industrial, consumer, and commercial solutions



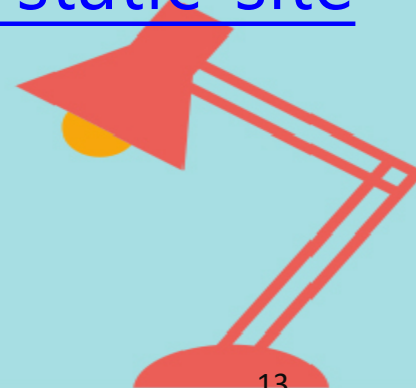
Tools

- Colab, Github, VSC
- PythonAnywhere: Host, run, and code Python in the cloud
 - <https://www.pythonanywhere.com/>
- AWS
 - <https://aws.amazon.com/free/>
- AWS academy
 - https://www.awsacademy.com/LMS_Login



Todo tasks:

- 1. 註冊/登入aws academy
 - https://www.awsacademy.com/LMS_Login
- 2. 註冊/登入PythonAnywhere
 - <https://www.pythonanywhere.com/pricing/>
- 3. Hosting a static site on PythonAnywhere
 - <https://help.pythonanywhere.com/pages/hosting-a-static-site>





Thanks!

Q&A

