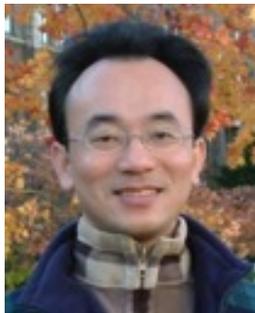


Cambridge English Teacher Online Training and EMI Teaching Experiences Sharing

2022/11/16 (Wednesday) 12:10 - 13:00
H418, NTPU Bilingual Education Office, NTPU



aws
educate | Cloud
Ambassador
2020 Cohort

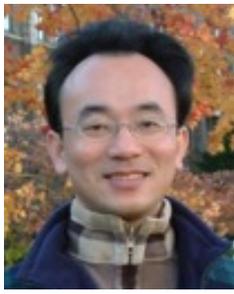


Min-Yuh Day, Ph.D,
Associate Professor

Institute of Information Management, National Taipei University

<https://web.ntpu.edu.tw/~myday>





Min-Yuh Day, Ph.D.



2020 Cohort

Associate Professor, Information Management, NTPU

Visiting Scholar, IIS, Academia Sinica

Ph.D., Information Management, NTU

Director, Intelligent Financial Innovation Technology, IFIT Lab, IM, NTPU

**Artificial Intelligence, Financial Technology, Big Data Analytics,
Data Mining and Text Mining, Electronic Commerce**



2020 Cohort



Outline

- **Learning Experiences from Cambridge English Teacher Online Training Course**
- **EMI Teaching Experiences Sharing**

EMI Teacher Community

AACSB, NTPU

EMI Teacher Community Activities

- 1. 2022/05/05 (Thursday) 12:00 pm-13:00 pm, B302
 - **Teaching Experiences Sharing of EMI Courses in AI for Business Applications**
 - **Min-Yuh Day**, National Taipei University,
 - <https://meet.google.com/zuc-vyaw-mnt>
- 2. 2022/05/11 (Wednesday) 9:10 am - 12:00 pm, B313
 - **Agile Principles Patterns and Practices in FinTech and Digital Transformation**
 - **Shihyu (Alex) Chu**, Senior Industry Analyst/Program Manager, Market Intelligence & Consulting Institute (MIC)
 - https://docs.google.com/forms/d/e/1FAIpQLScI7zvABRvtffqeZgT-OWNbOsyIXBOn6Lt_tj4-SuhZENyRQ/viewform
- 3. 2022/05/11 (Wednesday) 12:10 pm - 13:00 pm, B313
 - **Professional Business Presentations in English**
 - **Shihyu (Alex) Chu**, Senior Industry Analyst/Program Manager, Market Intelligence & Consulting Institute (MIC)
 - <https://docs.google.com/forms/d/e/1FAIpQLScA0Qq52qjQ5MDAyEDxHyui7VrVdklpsOSDzWXAwWi-kKLVAw/viewform>
- 4. 2022/05/18 (Wednesday) 12:10 pm - 13:00 pm, B313
 - **Web 3: From DeFi to WoFi**
 - **Prof. Shih-wei Liao**, National Taiwan University
 - <https://docs.google.com/forms/d/e/1FAIpQLSdKE-x4CW2w2LAjPEJcHCx25GAX4KYS1cHxUv9iioda1cXYQ/viewform>

**Learning Experiences
from
Cambridge English
Teacher Online Training
Course**

Cambridge English-Certificate in EMI Skills

- **Your EMI online course (Cambridge English-Certificate in EMI Skills) account is ready to log in.**
- **Please follow the steps below for your access:**
 - 1. System link:
<https://teachercourses.cambridgeenglish.org/login/index.php>
 - 2. Log in to the account (your e-mail address): email@gm.ntpu.edu.tw
 - 3. Initial password (please copy and paste): *****
 - 4. Please change your password right after first logging in.
 - 5. Please complete all the eight modules in the course before 2023/6/30.

Cambridge English-Certificate in EMI Skills

Course: Certificate in EMI Skills x +

teachercourses.cambridgeenglish.org/course/view.php?id=147

CAMBRIDGE English

Home Dashboard Calendar Find Learning

Min-Yuh Day

Home / My courses / Certificate in EMI Skills - Self-Access

CERTIFICATE IN EMI SKILLS - SELF-ACCESS

- Participants
- Grades
- Welcome
- Getting Started
- Module 1
- Module 2
- Module 3
- Module 4
- Module 5
- Module 6
- Module 7
- Module 8
- Certificate
- FAQ

ADMINISTRATION

Welcome

Welcome to the *Certificate in EMI Skills*.

This course is for lecturers and other professionals using English as a medium of instruction.

We recommend using Chrome to view this course, or Safari if you are on an iPad. It should work on tablet browsers, though if you have a small screen you may have problems seeing all the lesson content.

Your computer must be connected to the internet to view the course, and your connection needs to have a minimum speed of 3Mbps download and 512 Kbps upload.

Getting Started

This course is for lecturers and other professionals using English as a medium of instruction.

Module 1

This module looks at the language you can use for a range of purposes during lectures. The language is presented in the context of Business but can be used in any discipline.

SCORM packages: 14
Progress: 4 / 14

Module 2

This module looks at the language you can use for a range of purposes during seminars. The language is presented in the context of Arts

Cambridge English-Certificate in EMI Skills

8 Module 112 Sections

- **Each module consists of an introduction followed by 4 content sections and an 'over to you' section for you to review and apply your learning.**
 - **Module 1 – Language for lectures**
 - **Module 2 – Language for seminars**
 - **Module 3 – Language for small groups and practical sessions**
 - **Module 4 – Language for tutorials and supervision**
 - **Module 5 – Language for online communication**
 - **Module 6 – Language for evaluation and feedback**
 - **Module 7 – Language for developing and extending professional roles**
 - **Module 8 – Language for fulfilling professional responsibilities**

Cambridge English-Certificate in EMI Skills

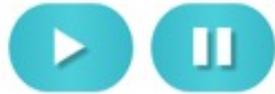
Module 1

- [SCORM packageM1 S1 L1 Introduction](#)
- [SCORM packageM1 S2 L1 Enhancing lecture content](#)
- [SCORM packageM1 S2 L2 Engaging students](#)
- [SCORM packageM1 S2 L3 Develop your lecture style](#)
- [SCORM packageM1 S3 L1 Phrases for introducing lectures](#)
- [SCORM packageM1 S3 L2 Vocabulary for introductions](#)
- [SCORM packageM1 S3 L3 Develop your lecture introductions](#)
- [SCORM packageM1 S4 L1 Language for signposting](#)
- [SCORM packageM1 S4 L2 Cohesion in lectures](#)
- [SCORM packageM1 S4 L3 Develop your lecture language](#)
- [SCORM packageM1 S5 L1 Language for conclusions](#)
- [SCORM packageM1 S5 L2 Giving instructions](#)
- [SCORM packageM1 S5 L3 Develop your lecture conclusions](#)
- [SCORM packageM1 S6 L1 Over to you ...](#)

Cambridge English-Certificate in EMI Skills

3.1 Lecture introductions

What does the lecturer include in their lecture introduction? There is more than one correct answer.



- ✓ explains what the lecture will help students understand.
- presents the students with a problem to discuss.
- ✓ shows how the lecture relates to the previous lecture.

Correct



Cambridge English-Certificate in EMI Skills

3.1 Phrases for introducing lectures

Listen to the lecturer. Match each phrase to its function.

	1 Recording 1	1 shows how the lecture is connected to other lectures
	2 Recording 2	2 explains what the lecture is about
	3 Recording 3	3 explains what the lecture will help students to understand
	4 Recording 4	4 presents a list of the lecture content
	5 Recording 5	5 asks questions or present problems for students

EMI

Teaching Experiences

Sharing

EMI Courses in AI for Business Applications



- **Artificial Intelligence**
 - Fall 2022
- **Artificial Intelligence in Finance and Quantitative**
 - Fall 2022
- **Artificial Intelligence for Text Analytics**
 - Spring 2022
- **Software Engineering**
 - Spring 2022

Teaching Experiences (EMI)



- **Artificial Intelligence for Text Analytics**
 - Spring 2022
- **Software Engineering**
 - Fall 2020, Fall, 2021, Spring 2022, Spring 2023
- **Artificial Intelligence in Finance and Quantitative**
 - Fall 2021, Fall 2022
- **Artificial Intelligence**
 - Spring 2021, Fall 2022
- **Data Mining**
 - Spring 2021
- **Big Data Analytics**
 - Fall 2020, Spring 2023
- **Foundation of Business Cloud Computing**
 - Spring 2021, Spring 2022

Teaching Experiences (EMI)



- **AI in Finance Big Data Analytics (Fall 2019)**
 - MBA, DBETKU (3 Credits, Elective) [Full English Course] [Distance Learning]
- **Big Data Mining (Fall 2018)**
 - MBA, DBETKU (3 Credits, Required) [Full English Course]
- **Social Media Apps Programming (Fall 2013 - Fall 2018)**
 - MBA, IMTKU (2 Credits, Elective) [Full English Course]
 - Fall 2018, Fall 2017 , Fall 2016 , Fall 2015 , Fall 2014 , **Fall 2013**

Artificial Intelligence

Introduction to Artificial Intelligence

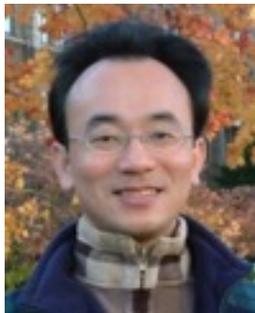
1111AI01

MBA, IM, NTPU (M6132) (Fall 2022)

Wed 2, 3, 4 (9:10-12:00) (B8F40)



[https://meet.google.com/
miy-fbif-max](https://meet.google.com/miy-fbif-max)



Min-Yuh Day, Ph.D,
Associate Professor

[Institute of Information Management, National Taipei University](https://web.ntpu.edu.tw/~myday)

<https://web.ntpu.edu.tw/~myday>



Course Syllabus

National Taipei University

Academic Year 111, 1st Semester (Fall 2022)

- **Course Title: Artificial Intelligence**
- **Instructor: Min-Yuh Day**
- **Course Class: MBA, IM, NTPU (3 Credits, Elective)**
- **Details**
 - **In-Class and Distance Learning EMI Course (3 Credits, Elective, One Semester) (M6132)**
- **Time & Place: Wed, 2, 3, 4, (9:10-12:00) (B8F40)**
- **Google Meet: <https://meet.google.com/miy-fbif-max>**



<https://meet.google.com/miy-fbif-max>



Course Objectives

1. Understand the **fundamental concepts and research issues of Artificial Intelligence**.
2. Equip with **Hands-on practices of Artificial Intelligence**.
3. Conduct **information systems research in the context of Artificial Intelligence**.

Course Outline

- This course introduces the **fundamental concepts, research issues, and hands-on practices of Artificial Intelligence.**
- Topics include:
 1. Introduction to Artificial Intelligence
 2. Artificial Intelligence and Intelligent Agents
 3. Problem Solving
 4. Knowledge, Reasoning and Knowledge Representation, Uncertain Knowledge and Reasoning
 5. Machine Learning: Supervised and Unsupervised Learning
 6. The Theory of Learning and Ensemble Learning
 7. Deep Learning, Reinforcement Learning
 8. Deep Learning for Natural Language Processing
 9. Computer Vision and Robotics
 10. Philosophy and Ethics of AI and the Future of AI
 11. Case Study on AI

Core Competence

- **Exploring new knowledge in information technology, system development and application 80 %**
- **Internet marketing planning ability 10 %**
- **Thesis writing and independent research skills 10 %**

Four Fundamental Qualities

- **Professionalism**
 - **Creative thinking and Problem-solving 40 %**
 - **Comprehensive Integration 30 %**
- **Interpersonal Relationship**
 - **Communication and Coordination 5 %**
 - **Teamwork 5 %**
- **Ethics**
 - **Honesty and Integrity 5 %**
 - **Self-Esteem and Self-reflection 5 %**
- **International Vision**
 - **Caring for Diversity 5 %**
 - **Interdisciplinary Vision 5 %**

College Learning Goals

- **Ethics/Corporate Social Responsibility**
- **Global Knowledge/Awareness**
- **Communication**
- **Analytical and Critical Thinking**

Department Learning Goals

- **Information Technologies and System Development Capabilities**
- **Internet Marketing Management Capabilities**
- **Research capabilities**

Syllabus

Week	Date	Subject/Topics
1	2022/09/14	Introduction to Artificial Intelligence
2	2022/09/21	Artificial Intelligence and Intelligent Agents
3	2022/09/28	Problem Solving
4	2022/10/05	Knowledge, Reasoning and Knowledge Representation; Uncertain Knowledge and Reasoning
5	2022/10/12	Case Study on Artificial Intelligence I
6	2022/10/19	Machine Learning: Supervised and Unsupervised Learning

Syllabus

Week	Date	Subject/Topics
7	2022/10/26	The Theory of Learning and Ensemble Learning
8	2022/11/02	Midterm Project Report
9	2022/11/09	Deep Learning and Reinforcement Learning
10	2022/11/16	Deep Learning for Natural Language Processing
11	2022/11/23	Invited Talk: AI for Information Retrieval
12	2022/11/30	Case Study on Artificial Intelligence II

Syllabus

Week	Date	Subject/Topics
13	2022/12/07	Computer Vision and Robotics
14	2022/12/14	Philosophy and Ethics of AI and the Future of AI
15	2022/12/21	Final Project Report I
16	2022/12/28	Final Project Report II
17	2023/01/04	Self-learning
18	2023/01/11	Self-learning

Introduction to Artificial Intelligence in Finance and Quantitative Analysis

1111AIFQA01

MBA, IM, NTPU (M6132) (Fall 2022)

Tue 2, 3, 4 (9:10-12:00) (B8F40)



<https://meet.google.com/paj-zhji-mya>



Min-Yuh Day, Ph.D,
Associate Professor

Institute of Information Management, National Taipei University

<https://web.ntpu.edu.tw/~myday>



Syllabus

Week	Date	Subject/Topics
1	2022/09/13	Introduction to Artificial Intelligence in Finance and Quantitative Analysis
2	2022/09/20	AI in FinTech: Metaverse, Web3, DeFi, NFT, Financial Services Innovation and Applications
3	2022/09/27	Investing Psychology and Behavioral Finance
4	2022/10/04	Event Studies in Finance
5	2022/10/11	Case Study on AI in Finance and Quantitative Analysis I
6	2022/10/18	Finance Theory

Syllabus

Week	Date	Subject/Topics
7	2022/10/25	Data-Driven Finance
8	2022/11/01	Midterm Project Report
9	2022/11/08	Financial Econometrics and Machine Learning
10	2022/11/15	AI-First Finance
11	2022/11/22	Industry Practices of AI in Finance and Quantitative Analysis
12	2022/11/29	Case Study on AI in Finance and Quantitative Analysis II

Syllabus

Week	Date	Subject/Topics
13	2022/12/06	Deep Learning in Finance; Reinforcement Learning in Finance
14	2022/12/13	Algorithmic Trading; Risk Management; Trading Bot and Event-Based Backtesting
15	2022/12/20	Final Project Report I
16	2022/12/27	Final Project Report II
17	2023/01/03	Self-learning
18	2023/01/10	Self-learning

Artificial Intelligence for Text Analytics

Introduction to Artificial Intelligence for Text Analytics

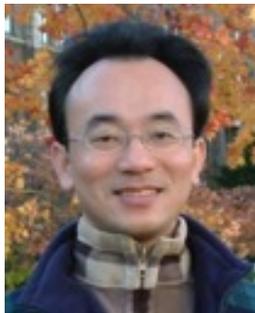
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MBA, IM, NTPU (M5026) (Spring 2022)

Tue 2, 3, 4 (9:10-12:00) (B8F40)



<https://meet.google.com/paj-zhji-mya>



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Associate Professor

Institute of Information Management, National Taipei University

<https://web.ntpu.edu.tw/~myday>



Syllabus

Week	Date	Subject/Topics
1	2022/02/22	Introduction to Artificial Intelligence for Text Analytics
2	2022/03/01	Foundations of Text Analytics: Natural Language Processing (NLP)
3	2022/03/08	Python for Natural Language Processing
4	2022/03/15	Natural Language Processing with Transformers
5	2022/03/22	Case Study on Artificial Intelligence for Text Analytics I
6	2022/03/29	Text Classification and Sentiment Analysis

Syllabus

Week	Date	Subject/Topics
7	2022/04/05	Tomb-Sweeping Day (Holiday, No Classes)
8	2022/04/12	Midterm Project Report
9	2022/04/19	Multilingual Named Entity Recognition (NER), Text Similarity and Clustering
10	2022/04/26	Text Summarization and Topic Models
11	2022/05/03	Text Generation
12	2022/05/10	Case Study on Artificial Intelligence for Text Analytics II

Syllabus

Week Date Subject/Topics

13 2022/05/17 Question Answering and Dialogue Systems

**14 2022/05/24 Deep Learning, Transfer Learning,
Zero-Shot, and Few-Shot Learning for Text Analytics**

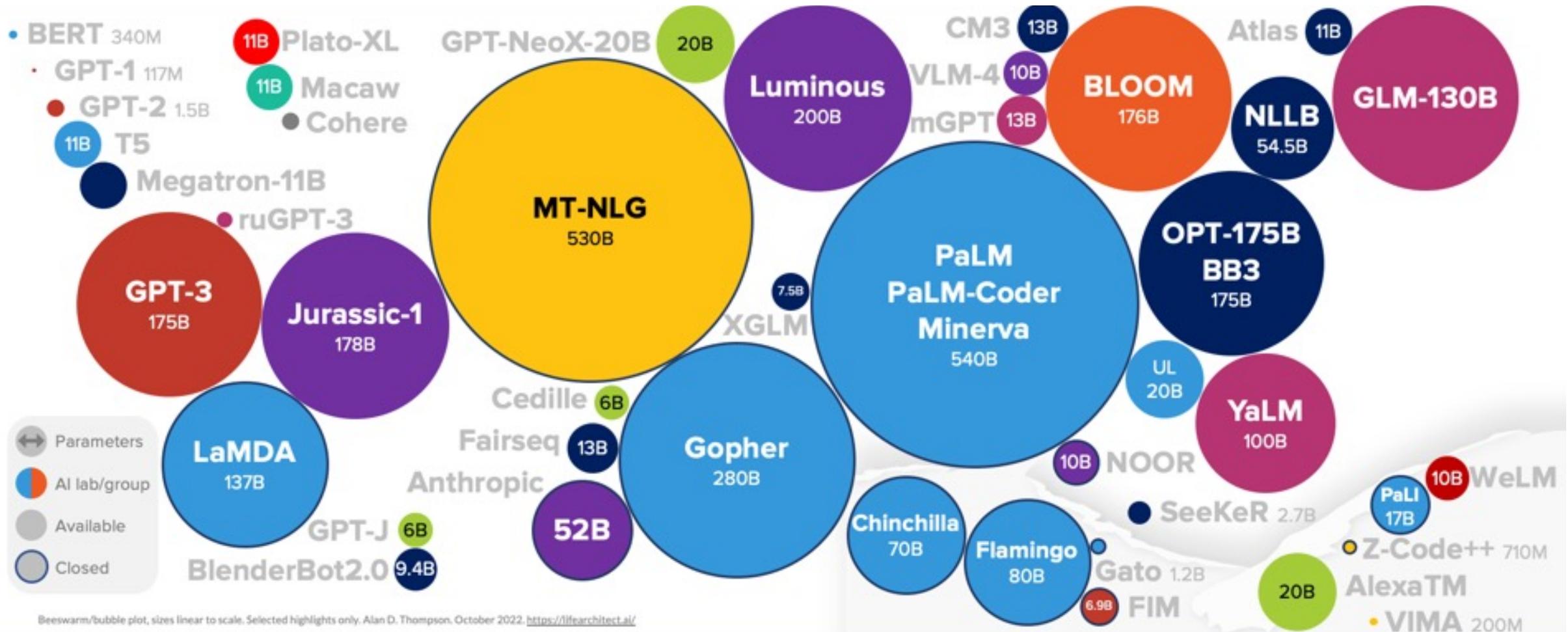
15 2022/05/31 Final Project Report I

16 2022/06/07 Final Project Report II

17 2022/06/14 Self-learning

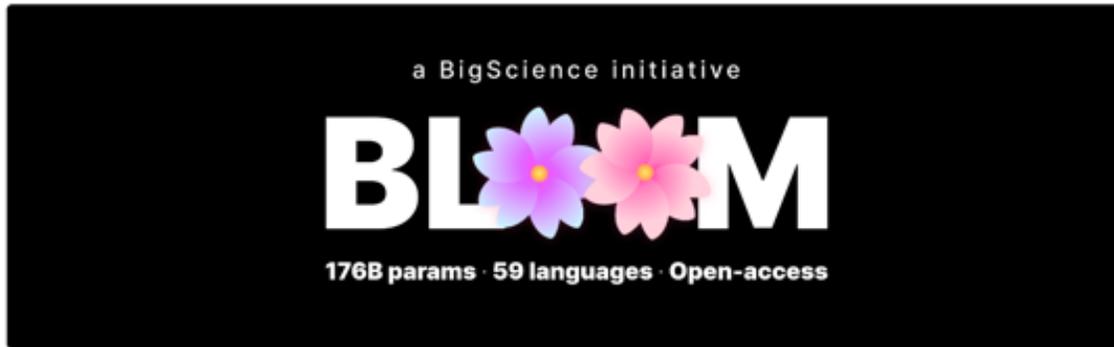
18 2022/06/21 Self-learning

Language Models Sizes (GPT-3, PaLM, BLOOM)



BLOOM

BigScience Large Open-science Open-access Multilingual Language Model



BigScience Large Open-science Open-access Multilingual Language Model

Version 1.3 / 6 July 2022

Current Checkpoint: **Training Iteration 95000**

Total seen tokens: **366B**

Downloads last month
12,875



⚡ Hosted inference API ⓘ

📄 Text Generation

Groups ▾

Examples ▾

I love bloom. Super simple, but so effective! I went through a similar process a couple of years ago when I

sampling greedy

ⓘ [BLOOM prompting tips](#)

Switch to "greedy" for more accurate completion e.g. math/history/translations (but which may be repetitive/less inventive)

Compute

⌘+Enter

1.3

Microsoft Azure Text to Speech (TTS)

Text SSML

You can replace this text with any text you wish. You can either write in this text box or paste your own text here.

Try different languages and voices. Change the speed and the pitch of the voice. You can even tweak the SSML (Speech Synthesis Markup Language) to control how the different sections of the text sound. Click on SSML above to [give it a try!](#)

Enjoy using Text to Speech!

Language

English (United States) ▾

Voice

Jenny (Neural) ▾

Speaking style

General ▾

Speaking speed: 1.00



Pitch: 0.00



Play

OpenAI Whisper



Hugging Face

Models

Datasets

Spaces

Docs

Solutions

Pricing



Spaces: openai/whisper



422

Running

App

Files



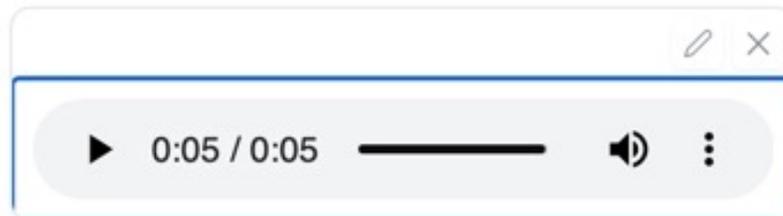
Community 49

Whisper

Whisper is a general-purpose speech recognition model. It is trained on a large dataset of diverse audio and is also a multi-task model that can perform multilingual speech recognition as well as speech translation and language identification. This demo cuts audio after around 30 secs.

You can skip the queue by using google colab for the space:

 Open in Colab



Transcribe

Source: <https://huggingface.co/spaces/openai/whisper>

Synthesia AI Video Generation



Features ▾

Use cases ▾

Pricing

Resources ▾

Company ▾

Log in

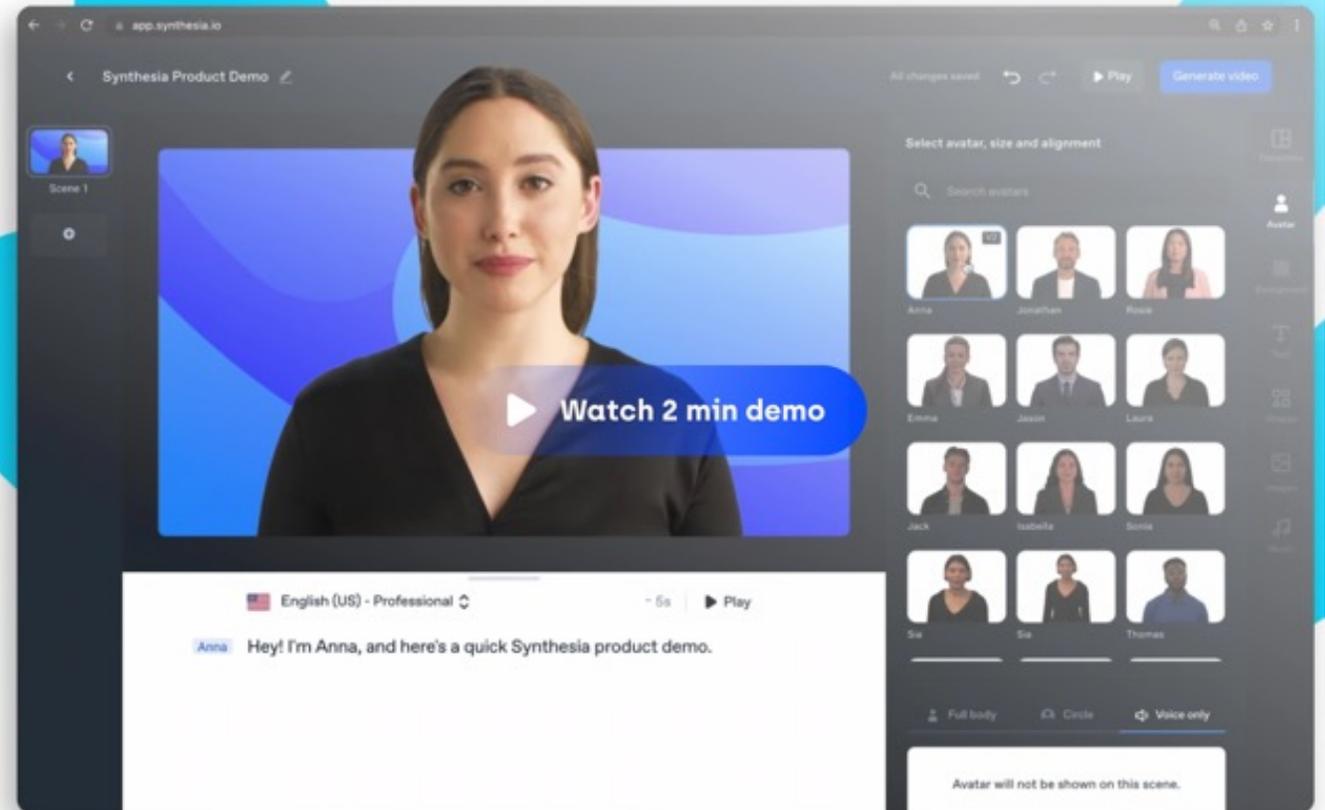
Create Account

Create videos from plain text in minutes

Synthesia is the #1 rated AI video creation platform. Thousands of companies use it to create videos in 65 languages, saving up to 80% of their time and budget.

Create a free AI video

No credit card required



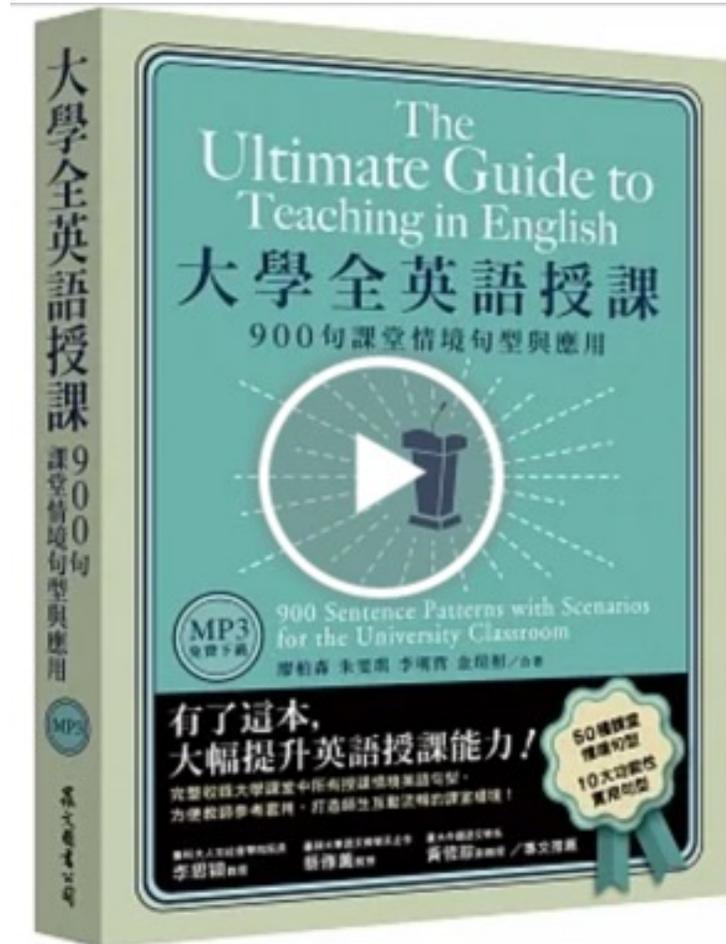
Source: <https://www.synthesia.io/>

大學全英語授課：900句課堂情境句型與應用

(美式發音MP3免費下載)

作者：廖柏森, 朱雯琪, 李明哲, 金瑄桓

出版社：眾文 出版日期：2021/01/20



Summary

- **Learning Experiences from Cambridge English Teacher Online Training Course**
- **EMI Teaching Experiences Sharing**

Q & A

Cambridge English Teacher Online Training and EMI Teaching Experiences Sharing

2022/11/16 (Wednesday) 12:10 - 13:00
H418, NTPU Bilingual Education Office, NTPU



aws
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