

Studying MOOCs and Doing MOOCs Sharing Session – MITx Courses

15:30 – 17:00

**Roy Kam(EDC),
Instructional/Learning Design Specialist,
Member of PolyU's MOOC Steering Group,
roy.kam@polyu.edu.hk**

Facilitator's Background



Ex-undergraduate student

➔ *at the time PolyU firstly adopted WebCT*



Scholarship recipient + postgraduate (eLearning)

➔ *Contributing to the eLearning field in HK for at least 3 years after graduation was a requirement*



Educational design professional in various contexts, particularly in eLearning



Part of a Series of MOOC-related Sessions

Studying MOOCs & Doing MOOCs MITx Courses

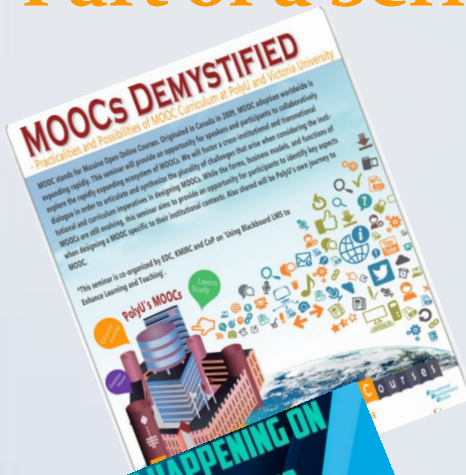


June

Have you ever heard of Coursera, edX, FutureLearn, iversity, Open2Study and others? They are **MOOC (Massive Open Online Course)** platforms; and you can study free online courses in subject areas of your interest offered by a wide range of universities including the elite ones there. Building on the previous popular session on HarvardX courses, this sharing session focuses on MITx courses and allows us in the roles of MOOC end-users/developers to collectively examine:

- What kind of contents in original face-to-face courses are selected for the online delivery in your selected MOOC course?
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Prerequisite - To benefit the most from the sharing session, those who enroll are required to audit/take at least one MITx course at



Date: 24 Jun 2014 | Time: 3:30 - 5:00 PM | Venue: BC411-12 | Facilitator: Roy Kam, EDC

* This sharing session is co-organized by EDC and CoP on 'Using Blackboard LMS to Enhance Learning and Teaching'.

Learn
Study

Question
Answer

Educate
Knowledge

Key Agendas Today



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8.MREVx: Mechanics ReView

Mechanics ReView is an MIT-level introductory mechanics class emphasizing a strategic problem-solving approach. It covers the same syllabus topics as the Advanced Placement **Mechanics-C** course.

STARTS: 29 May 2014 **INSTRUCTORS:** David E. Pritchard **MITx**



[learn more](#)

MAS.S69x: Big Data and Social Physics

Understanding big data, how to use it to improve companies, cities, and government, and best-practice for privacy

STARTS: 12 May 2014 **INSTRUCTORS:** Alex Pentland **MITx**

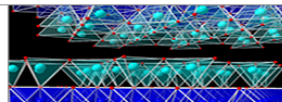


[learn more](#)

3.091x: Introduction to Solid State Chemistry

3.091x explains chemical principles by examination of the properties of materials.

STARTS: 12 May 2014 **INSTRUCTORS:** Michael Cima **MITx**



[learn more](#)

6.SFMx: Street-Fighting Math

Teaches, as the antidote to rigor mortis, the art of educated guessing and opportunistic problem solving.

STARTS: 8 Apr 2014 **INSTRUCTORS:** Sanjoy Mahajan **MITx**



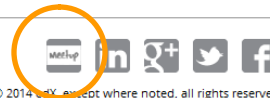
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MOOC Meetup

Educational Design
& Experience of
OCs

Learning from
the Elite
University –
MITx Courses

Who have audited/taken at least 1 MITx Course?



Find

a Meetup Group

Start

a Meetup Group

Sign up

Log in

English



Edx Meetup Groups



Groups	Members	Interested	Cities	Countries
35	5,997	2,706	27	17

Related topics: coursera.org · MOOCs · edx.org · Online Learning · Udacity · Study Group · Online Education · Business Intelligence · Education & Technology · learning

Find a Edx Meetup Group near you

Country

USA

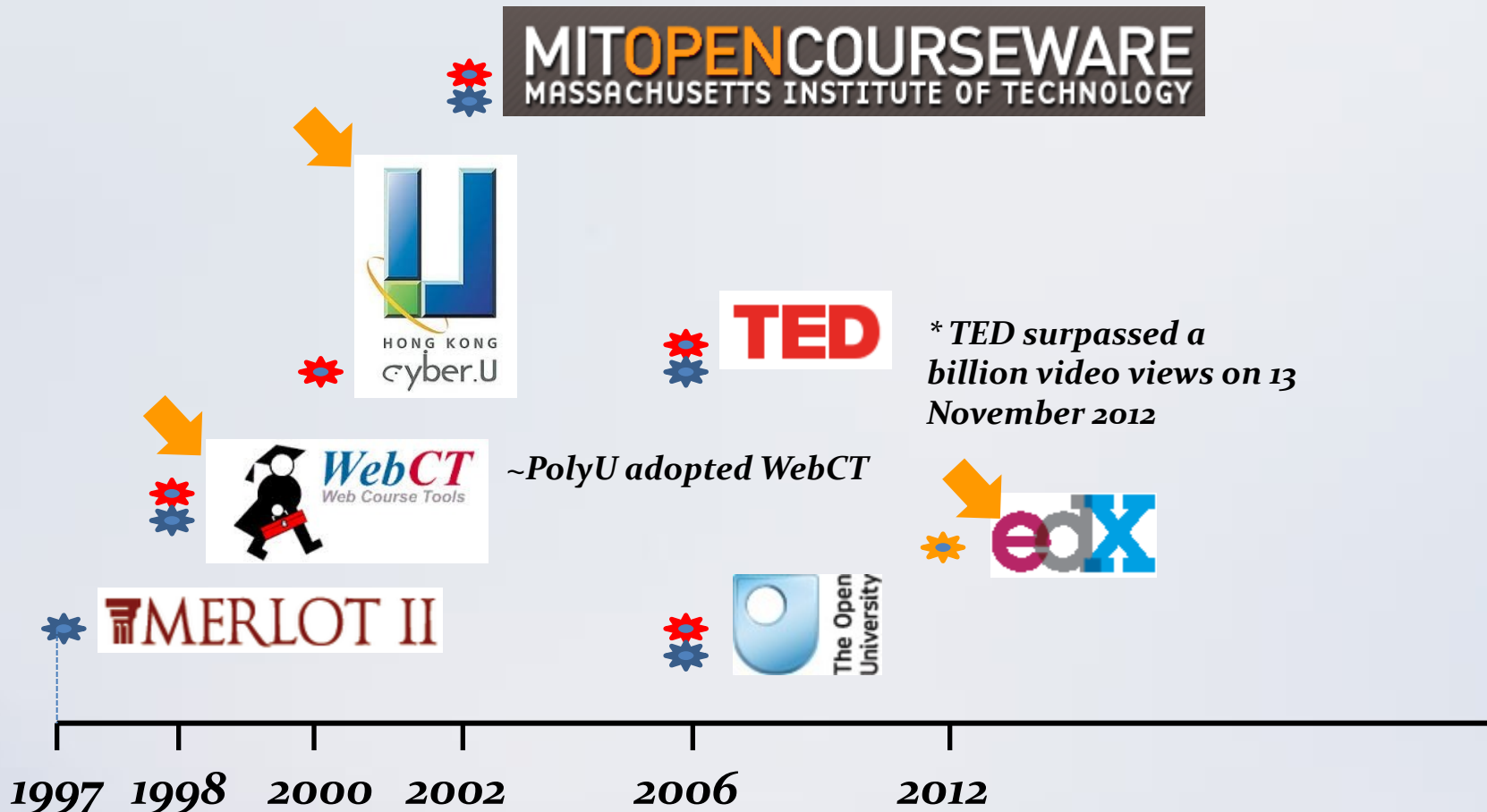
ZIP

Search

Are you Ready to Learn Collectively?

Looking Backward, Looking Forward

 Online Materials  Online Courses  Massive Open Online Courses



Discussion I (15 mins)

- Can't the **online materials* as just seen be massively open?
- Can't the **online courses* as just seen be massively open or non-massively private (i.e. SPOC)?
- What are the major differences between **MOOCs* and the previous round of ** and **?

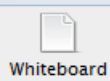
➤ Feel free to use the notebook on your table if your group wants to know more about the cited examples.

Time for Our Collective Ideas

➤ *More thoughtful; more beneficial*
<http://www.twiddla.com/xxxxxxx>



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Text options

Arial

18 px

B

I

☰

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☰

Text type

T

☐

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Invite



Join A



guest1711

Welcome to Twiddla!

Give out this link to invite p

<http://www.twiddla.com/1>

A Closer Look at MITx Courses



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➤ Our attendees for HarvardX Courses were from AMA, AP, BME, BRE, BSE, CBS, COMP, CPA, EDC, ELC, HKCC, HTI, IAEE, IC, IfE, ISE, ITC, ITS, LIB, LSGI, ME, P, RS, SAO, SHTM, SN, etc.

➤ This time, **AF**, AMA, **APSS**, **CEE**, COMP, EDC, ELC, HKCC, HTI, IfE, ISE, ITC, LIB, RS, SHTM, SN, **SO**, etc

The screenshot shows the edX website interface. At the top left is the edX logo, followed by navigation links: HOW IT WORKS, COURSES, and SCHOOLS & PARTNERS. A 'dashboard' button is in the top right. Below the navigation is a banner for 'TAKE ONLINE COURSES from the world's best colleges and universities' with a background image of a person and a wind turbine. A search bar below the banner allows filtering by 'all', 'current', 'new', or 'past', and by subject (currently set to 'all subjects') and course type (currently set to 'MITx'). Below the search bar, it says 'Courses: Showing 1 - 15 of 30'. Three course cards are visible:

- 7.00x: Introduction to Biology - The Secret of Life**
Explore the secret of life through the basics of biochemistry, genetics, molecular biology, recombinant DNA, genomics and rational medicine.
STARTS: 17 Jun 2014 INSTRUCTORS: Eric S. Lander MITx
- Vjx : Visualizing Japan (1850s-1930s): Westernization, Protest, ...**
A first-time MITx/HarvardX collaboration, Vjx opens windows on Japan's transition into the modern world through the historical visual record.
STARTS: 3 Sep 2014 INSTRUCTORS: John W. Dower HarvardX, MITx
- 8.EFTx: Effective Field Theory**
8.EFTx is a graduate course on Effective Field Theory (EFT), which provides a fundamental framework to describe physical systems with quantum field theory. For residential students it is listed as 8.S851.
STARTS: 16 Sep 2014 INSTRUCTORS: Iain Stewart MITx

Studying MOOCs & Doing MOOCs

MITx Courses



June

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Discussion II (15 mins)

Content Selection

- *Are contents adapted (i)parts of the same campus-based course or (ii)from the whole campus-based course?*
- *Are contents more appropriate for (i) the MOOC delivery or (ii) the MOOC delivery in a blended mode?*

Learning & Teaching Experiences

- *Instead of classifying MOOCs into cMOOC, xMOOC, pMOOC, etc, what are the eclectic experiences of learning and teaching you find them (i)good or (ii)bad?*
- *Do you learn mainly from (i)the teaching team or (ii)classmates or (iii) others?*
- *Participatory? Passive? Collaborative? Unstructured?*

Technological Tools Available

- *What are the (i)edX-based and (ii)non-edX-based technological tools to assist the learning and teaching?*

Content Selection



...designed to help people with *no prior exposure to computer science or programming* learn to think computationally and write programs to tackle useful problems.

The original textbook for 6.00 and the course lectures *parallel each other...*

Home » Courses » Electrical Engineering and Computer Science » Introduction to Computer Science and Programming

Introduction to Computer Science and Programming

OCW Scholar

COURSE HOME <

SYLLABUS

SOFTWARE

REFERENCES

UNIT 1

UNIT 2


UNIT 3

DOWNLOAD COURSE MATERIALS

Instructor(s)
Prof. John Guttag

Level
Undergraduate

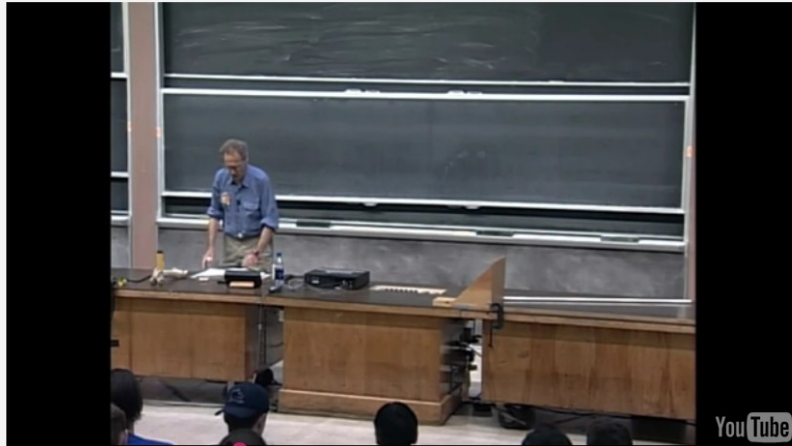
CITE THIS COURSE



Many of the problem sets focus on specific topics, such as virus population dynamics, word games, optimizing routes, or simulating the movement of a Roomba. (Roomba photograph courtesy of Stephanie Booth on Flickr; virus image courtesy of the CDC; Boggle photograph courtesy of Angelina on Flickr; MIT campus map image courtesy of RahuG on Flickr.)

Learning & Teaching Experiences

LECTURE 1 VIDEO SEGMENT 2: MEASUREMENT UNCERTAINTY



*Video-taped Interactive
Lecture*

Video-taped Head Talk

TYPES OF KNOWLEDGE

Imperative knowledge

- Here is a “recipe” for deducing a square root of a number x – attributed to Heron of Alexandria in the first century AD
 - Start with a guess, g
 - If $g \cdot g$ is close enough to x , stop and say that g is the answer
 - Otherwise make a new guess, by averaging g and x/g
 - Using this new guess, repeat the process until we get close enough

Learning & Teaching Experiences



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Which of the following are prerequisites for this course?

- Calculus, prior programming experience
- Statistics, prior programming experience
- High-school level algebra ✓
- High-school level algebra, prior programming experience

Check

Save

Show Answer

You have used 1 of 3 submissions

FORMULA ENTRY (1/1 point)

Enter the algebraic expression $A \cdot x^2 + \sqrt{y}$ in the box below. The entry is case sensitive. The product must be indicated with an asterisk, and the exponentiation with a caret, so you must write "A*x^2 + sqrt(y)".

A*x^2 + sqrt(y) ✓

$A \cdot x^2 + \sqrt{y}$

Longest substring in alphabetical order is: beggh

In the case of ties, print the first substring. For example, if `s = 'abcbcd'`, then your program should print

Longest substring in alphabetical order is: abc

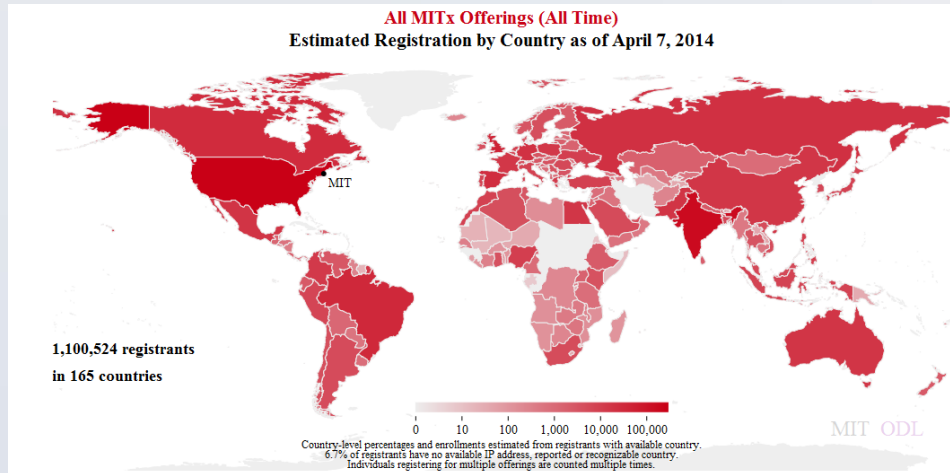
For problems such as these, do not include `raw_input` statements or define the variable `s` in any way. Our automating testing will provide a value of `s` for you - so the code you submit in the following box should assume `s` is already defined. If you are confused by this instruction, please review L4 Problems 10 and 11 before you begin this problem set.

Note: This problem is fairly challenging. We encourage you to work smart. If you've spent more than a few hours on this problem, we suggest that you move on to a different part of the course. If you have time, come back to this problem after you've had a break and cleared your head.

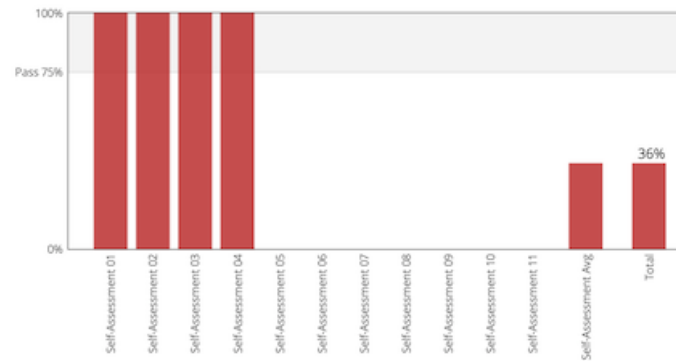
```
1 # Paste your code into this box
```

Practice/Assessment Items

Technological Tools Available



Course Progress for Student 'zacharydavis' (zachary_davis@harvard.edu)



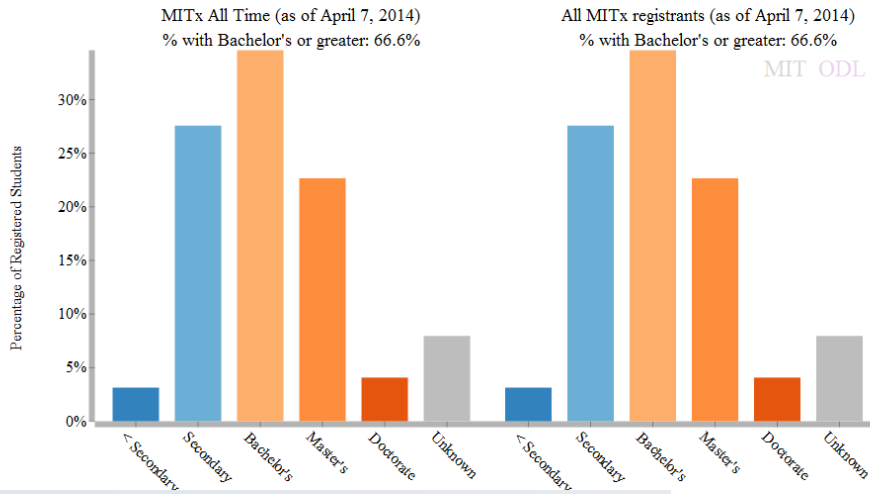
Introduction

Day 1: Welcome and introduction

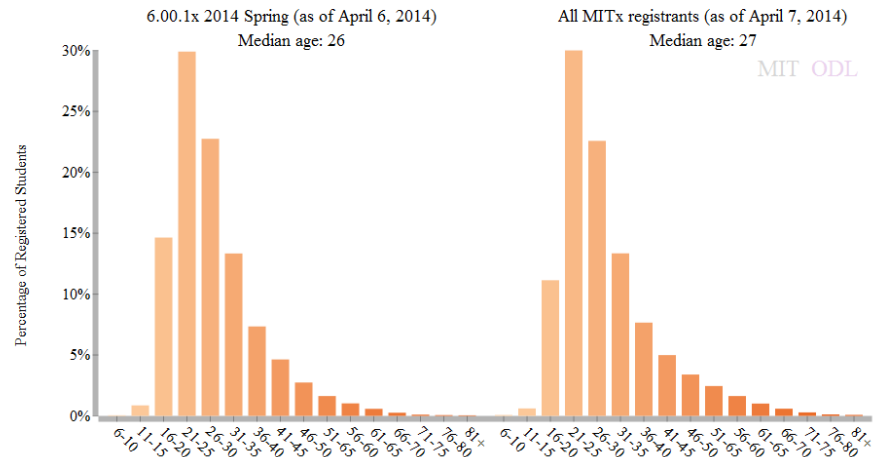
No problem scores in this section

Technological Tools Available

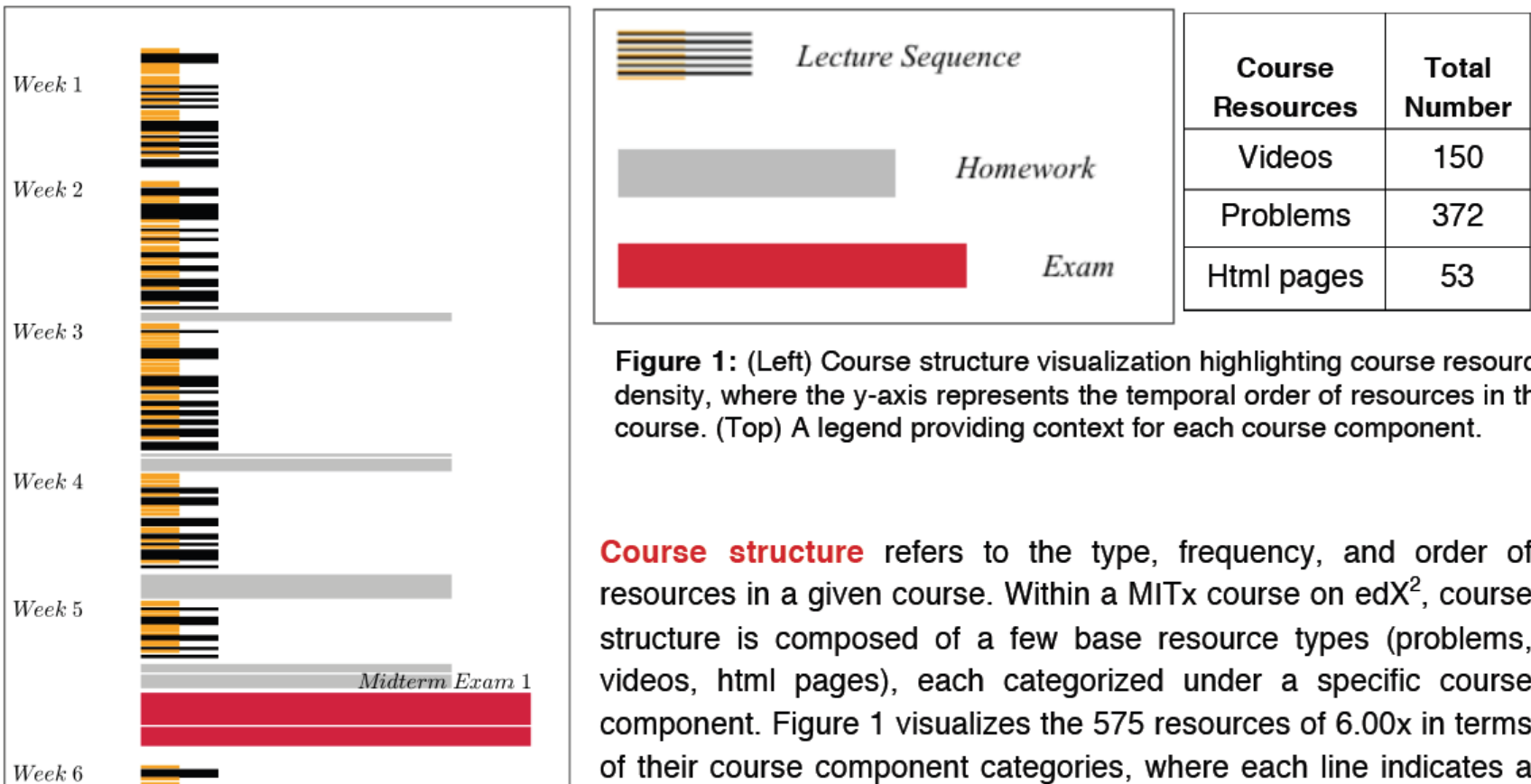
**All MITx Offerings (All Time)
Completed Education Composition as of April 7, 2014**



**6.00.1x, Introduction to Computer Science and Programming Using Python (Launched Spring, 2014)
Age Composition as of April 6, 2014**

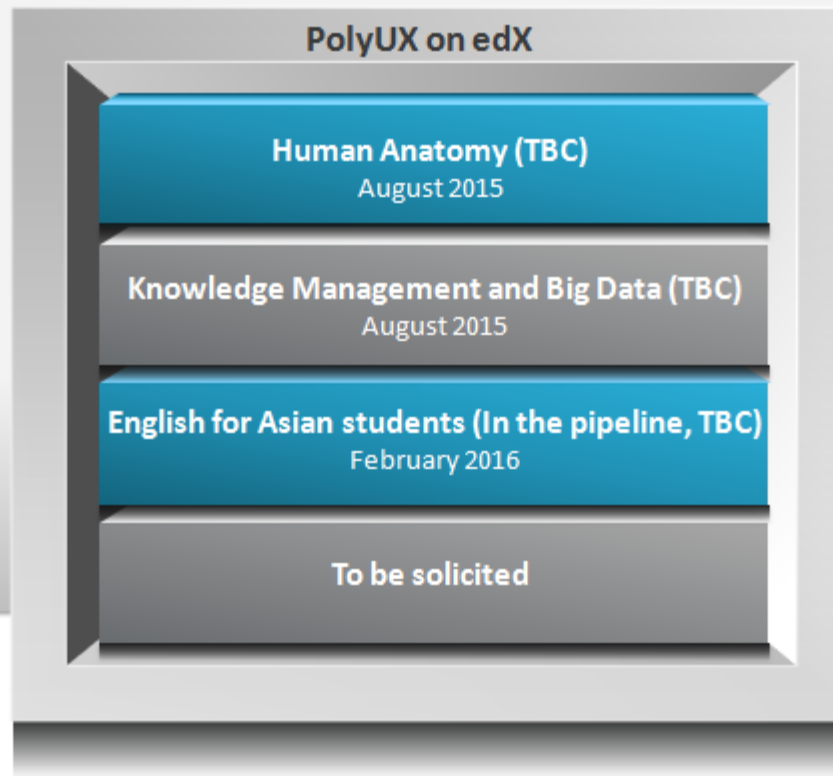


Technological Tools Available



To edX End-users & Developers

Planned subjects to be launched on edX.org



**Extracted from the MOOC Journey at PolyU presented by Prof. Eric Tsui in the 1st PolyU MOOC Steering Group Meeting on 19 June 2014.*

Before You Go...

Your feedback is valuable to the sharing session

- Have we fulfilled your expectations?
- Have we met our goals for the session?

