



educating 1 billion students



What is “edX” ?

- A non-profit venture
- A web site: edx.org
- A platform: Open edX



edX the venture

Founded by MIT and Harvard,
Now have >80 members



Massachusetts
Institute of
Technology

Founder



HARVARD
UNIVERSITY

Founder

Berkeley
UNIVERSITY OF CALIFORNIA

Contributor



THE UNIVERSITY
of TEXAS SYSTEM

Contributor



Australian
National
University

Contributor

BOSTON
UNIVERSITY

Contributor

TU Delft

Contributor



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

Contributor

Berklee
college of
music



Caltech

COLUMBIA UNIVERSITY
IN THE CITY OF NEW YORK



Cornell University

edX goals

- Expand access to quality education
 - Goal: 1 *billion* students!
- Improve on-campus education
 - 80 members so far
- Advance research in online learning
 - How can we make MOOCs better and better?

<http://edx.org>

the web site



Take great **online courses** from the world's **best universities**

[VIEW ALL COURSES](#)

EdX partners top list of world's best universities.
[See the latest rankings and learn from the best! >>](#)



VERIFIED

W3Cx

HTML5.1x

[Learn HTML5 from W3C](#)

Starting Soon - October 5, 2015



Introducing Global Freshman Academy

Earn credit for your freshman year on edX

[LEARN MORE](#)

Our Most Popular Courses Starting Soon



VERIFIED

UPValenciaX
BSP101x[Learn Spanish: Basic Spanish for English Speakers](#)

Current

Starts: September 15, 2015



VERIFIED

Microsoft
DAT206x[Excel for Data Analysis and Visualization](#)

Starting Soon

Starts: September 29, 2015



XSERIES PROGRAM

[Systematic Program Design](#)

UBCx

Current

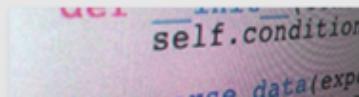


VERIFIED

Tennessee Board of Regents
EngCompX[Preparing for the AP* English Language and Composition Exam](#)

Starting Soon

Starts: October 1, 2015



Quick history

- November 2011: dev started
- March 2012: first MOOC
- January 2013: **20** MOOCs, **500k** students
- March 2014: **160** MOOCs, **2.3M** students
- Sept 2015: **500** MOOCs, **5M** students

edX Lesson 1 ~ Getting Started

https://courses.edx.org/courses/edX/DemoX/Demo_Course/courseware/interactive_demonstrations/19a30717eff543078a5d94ae9d6c18a5/#

edX: DemoX edX Demonstration Course

singingwolfboy

Courseware Course Info Discussion Wiki Open Ended Panel Progress Instructor Student view

Introduction

Example Week 1: Getting Started

Lesson 1 - Getting Started

Homework - Question Styles Homework

Example Week 2: Get Interactive

Example Week 3: Be Social

About Exams and Certificates

Help

SCIENCE AND COOKING CHEF PROFILE: JOSÉ ANDRÉS

[MUSIC PLAYING]

JOSE ANDRES: Hello, people of Harvard, people of the world.
My name is Jose Andres.
I am a chef.
You, I, we are at minibar.
minibar is very much the heart of everything I do.
I've been cooking since I was 14.

0:00 / 4:17 SPEED 1.0x HD cc

Hide Discussion New Post

New at online courses

Nilsam about an hour ago

I am very excited about taking online courses, this will be the first of many I hope to take. Dont know what to expect, but I just hope I can...

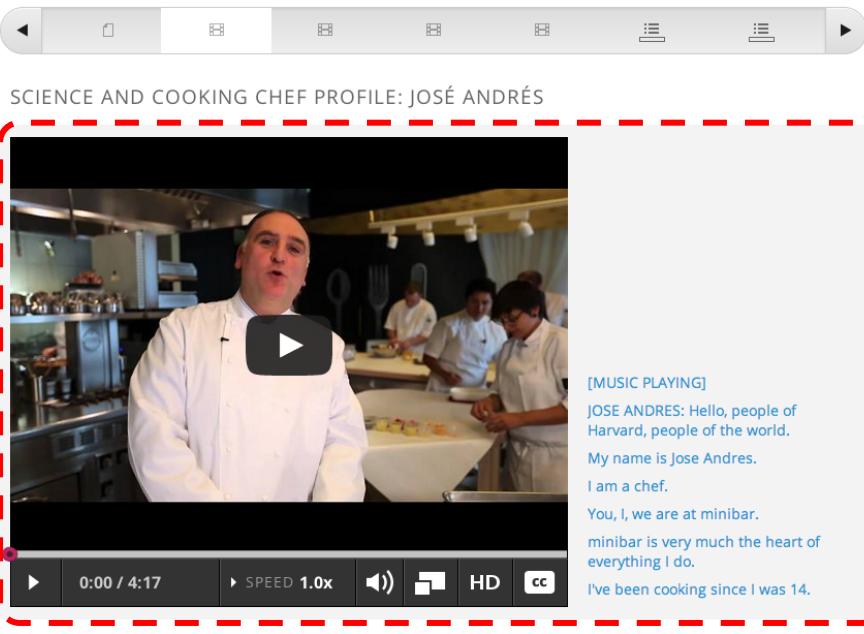
View discussion

+ 0 Report Misuse

Keep on learning

AnaliaLlorente about 3 hours ago

+ 0 Report Misuse



edX Multiple Choice Questions

https://courses.edx.org/courses/edX/DemoX/Demo_Course/courseware/interactive_demonstrations/basic_questions/#

singingwolfboy

Courseware Course Info Discussion Wiki Open Ended Panel Progress Instructor Student view

Introduction

Example Week 1: Getting Started

Lesson 1 - Getting Started

Homework - Question Styles Homework

Example Week 2: Get Interactive

Example Week 3: Be Social

About Exams and Certificates

MULTIPLE CHOICE QUESTIONS (2/3 points)

Many edX courses have homework or exercises you need to complete. Notice the clock image to the left? That means this homework or exercise needs to be completed for you to pass the course. (This can be a bit confusing; the exercise may or may not have a due date prior to the end of the course.)

We've provided eight (8) examples of how a professor might ask you questions. While the multiple choice question types below are somewhat standard, explore the other question types in the sequence above, like the formula builder- try them all out.

As you go through the question types, notice how edX gives you immediate feedback on your responses - it really helps in the learning process.

What color is the open ocean on a sunny day?

yellow

Which piece of furniture is built for sitting?

a table
 a desk
 a chair ✓
 a bookshelf

Which of the following are musical instruments?

✓ a piano
 a tree
 a guitar
 a window

Check

Show Discussion New Post

Introduction

Example Week 1:
Getting Started

Example Week 2:
Get Interactive

Lesson 2 - Let's Get
Interactive!

Homework - Labs and Demos

Homework

Homework - Essays

Homework

Example Week 3: Be Social

About Exams and Certificates

Help

AN INTERACTIVE REFERENCE TABLE

This Interactive Periodic Table of the Elements is found in [3.091x: Introduction to Solid State Chemistry](#). The table reveals the detailed properties of each element as you mouse over them. By using digital tools such as this, the learning process is easier and more fun than by traditional learning!

 Pu Plutonium 244.0642 g/mol	<table border="1"> <tbody> <tr> <td>Atomic Weight</td><td>244.0642 g/mol</td></tr> <tr> <td>Atomic Volume</td><td>12.32 cm³/mol</td></tr> <tr> <td>Ionic Radius</td><td>100 pm</td></tr> <tr> <td>Density</td><td>19.816 g/cm³</td></tr> <tr> <td>Melting Point</td><td>640 C</td></tr> <tr> <td>Boiling Point</td><td>3228 C</td></tr> <tr> <td>Polarizability</td><td>24.5</td></tr> <tr> <td>Electronegativity</td><td>1.28</td></tr> <tr> <td>First Ionization Potential</td><td>5.8 eV</td></tr> <tr> <td>Crystal Structure</td><td>Mono</td></tr> <tr> <td>Oxidation States</td><td>3,4,5,6</td></tr> <tr> <td>Electronic Configuration</td><td>[Rn]5f⁷5p¹</td></tr> <tr> <td>Enthalpy of Fusion</td><td>2.82 kJ/mol</td></tr> <tr> <td>Enthalpy of Vaporization</td><td>344 kJ/mol</td></tr> <tr> <td>Covalent Radius</td><td>~ Å</td></tr> <tr> <td>Thermal Conductivity</td><td>0.067 W·cm⁻¹·K⁻¹</td></tr> <tr> <td>Specific Heat Capacity</td><td>0.13 J·g⁻¹·K⁻¹</td></tr> <tr> <td>Enthalpy of Atomization</td><td>360 kJ/mol</td></tr> </tbody> </table>	Atomic Weight	244.0642 g/mol	Atomic Volume	12.32 cm³/mol	Ionic Radius	100 pm	Density	19.816 g/cm³	Melting Point	640 C	Boiling Point	3228 C	Polarizability	24.5	Electronegativity	1.28	First Ionization Potential	5.8 eV	Crystal Structure	Mono	Oxidation States	3,4,5,6	Electronic Configuration	[Rn]5f⁷5p¹	Enthalpy of Fusion	2.82 kJ/mol	Enthalpy of Vaporization	344 kJ/mol	Covalent Radius	~ Å	Thermal Conductivity	0.067 W·cm⁻¹·K⁻¹	Specific Heat Capacity	0.13 J·g⁻¹·K⁻¹	Enthalpy of Atomization	360 kJ/mol
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Enthalpy of Atomization	360 kJ/mol																																				

H 1 1.01	He 2 4
Li 3 6.94	Be 4 9.01
Na 11 22.99	Mg 12 24.30
K 19 39.10	Ca 20 40.08
Rb 37 85.47	Sc 21 44.96
Sr 38 87.62	Ti 22 47.88
Y 39 88.91	V 23 50.94
Nb 40 92.91	Cr 24 52
Mo 41 95.94	Mn 25 54.94
Tc 42 97.91	Fe 26 55.85
Rh 43 101.07	Co 27 58.93
Pd 44 102.91	Ni 28 58.69
Ag 45 106.42	Cu 29 63.55
Cd 46 112.41	Zn 30 65.39
In 47 114.82	Ga 31 69.72
Sn 48 118.71	Ge 32 72.61
Te 49 121.76	As 33 74.92
I 50 127.60	Se 34 78.90
Xe 51 131.29	Br 35 79.90
Fr 52 132.91	Ca 53 83.80
Ra 53 137.33	La 54 88.91
Ac 54 138.91	Hf 55 178.49
Rf 55 143.03	Ta 56 180.95
Db 56 147.03	W 57 183.84
Sg 57 151.03	Re 58 186.21
Bh 58 154.03	Os 59 190.23
Hs 59 157.03	Ir 60 192.22
Mt 60 159.03	Pt 61 195.08
Uun 61 161.03	Au 62 196.97
Uuu 62 162.03	Hg 63 200.59
Uub 63 163.03	Tl 64 204.38
Uut 64 164.03	Pb 65 207.20
Uqq 65 165.03	Bi 66 208.98
Uup 66 166.03	Po 67 208.98
Uuh 67 167.03	At 68 209.99
Uus 68 168.03	Rn 69 222.02

Ce 58 140.12	Pr 59 140.91	Nd 60 144.24	Pm 61 144.91	Sm 62 150.36	Eu 63 151.97	Gd 64 157.25	Tb 65 158.93	Dy 66 162.50	Ho 67 164.93	Er 68 167.26	Tm 69 168.93	Yb 70 173.04	Lu 71 174.97
Th 90 232.04	Pa 91 231.04	U 92 238.03	Np 93 237.05	Pu 94 244.06	Am 95 243.06	Cm 96 247.07	Bk 97 247.07	Cf 98 251.08	Es 99 252.08	Fm 100 257.10	Md 101 258.10	No 102 259.10	Lr 103 262.11

Show Discussion

New Post

edX Discussion - DemoX | edX

https://courses.edx.org/courses/edX/DemoX/Demo_Course/discussion/forum/edx_demo_embedded_discussion/threads/533a1b67c2c...

Courseware Course Info Discussion Wiki Open Ended Panel Progress Instructor New Post

Show All Discussions ▾

SORT BY: DATE VOTES COMMENTS

HALOU EVERYONE +0 0

welcome +0 0

AWESOME! +0 0

helloooo +0 0

Done +0 0

HI +0 0

Starting time of Course +0 1

Interesting lecture +0 1

Hello +1 0

Greetings from Mexico +0 1

Interesting +1 1

New at online curses +0 0

stuck +0 0

like +0 0

Oh Good! +0 0

Coding +0 0

Scary!! +0 0

Excellent! +0 0

Keep on learning +0 0

wow!! +0 0

Greetings from Mexico

giovas
about 13 hours ago

I hope to talk to some of you at some point.

(this post is about Interesting Courses / Discussion Forums)

Pin Thread Report Misuse

Edit Delete Close

1 response

Add A Response

Johny1127
about 10 hours ago

Thats really great Giovas. I'm from India, glad to meet you. gracious :) this is one word that I know in Spanish :) I also want to visit Mexico for its beautiful art works and urban monumental buildings and structures and football as well.

Report Misuse

Edit Delete

Add a comment...

Showing all responses

Post a response:

Peer Assessment | Assess

wedaly.m.sandbox.edx.org/courses/Aqdas/A-101/2014_T1/courseware/7d9af67231bd4c368c8d7d963c11b...

Apps JIRA Dashboard Confluence Dashboard Studio Documentation Documentation - edx/edx-platform OS X keyboard short

edX Aqdas: A-101 Peer-- Aqdas staff

Courseware Course Info Discussion Wiki Progress Instructor Staff view

Peer Assessment

Assessment

This problem requires that you work through multiple parts. You can begin by reading the question below and providing your response.

Censorship in the Libraries

'All of us can think of a book that we hope none of our children or any other children have taken off the shelf. But if I have the right to remove that book from the shelf -- that work I abhor -- then you also have exactly the same right and so does everyone else. And then we have no books left on the shelf for any of us.' --Katherine Paterson, Author

Write a persuasive essay to a newspaper reflecting your views on censorship in libraries. Do you believe that certain materials, such as books, music, movies, magazines, etc., should be removed from the shelves if they are found offensive? Support your position with convincing arguments from your own experience, observations, and/or reading.

Read for conciseness, clarity of thought, and form.

1 | Your Response IN PROGRESS

Please provide your response below. You can save your progress and return to complete your response at any time before the due date of . After you submit your response, you cannot edit it.

YOU MAY CONTINUE TO WORK ON YOUR RESPONSE UNTIL YOU SUBMIT IT.

Save Your Progress UNSAVED DRAFT

Submit your response and move to the next step >

NOT AVAILABLE

edX Individual Unit | A Global ... X

https://studio.stage.edx.org/unit/Cale.0.0/branch/draft/block/verticala9d

edX STUDIO Cale 0 A Global History of Archit... Content Settings Tools Help DB

Display Name:

7.2 - Knossos, Part 1

7.2 - Knossos, Part 1 EDIT ⌂ ⌂ ⌂

7.2 - Knossos, Part 1

This unit contains the second section of Lecture 7. Please watch it, then answer the questions below. The lecture continues in the next unit.

Video 7.2

VIDEO 7.2



Unit Settings

Visibility: Private

This unit is scheduled to be released to students on Oct 08, 2013 at 00:00 UTC with the subsection Lecture 7: 1500 BCE: After the Cataclysm and The Rise of the Eastern Mediterranean

Preview

Unit Location

Unit Identifier: a9d5b280846d4016bbba64471031c406

Week 4

Lecture 7: 1500 BCE: After the Cataclysm a...

7.0 - Overview

7.1 - Migration, Trade, and the Rise of t...

7.2 - Knossos, Part 1 - PRIVATE

7.3 - Knossos, Part 2

7.4 - Knossos, Part 3

7.5 - Karnak, Part 1

7.6 - Karnak, Part 2

7.7 - Discussion

+ New Unit

osX Individual Unit | christina | x

https://studio.stage.edx.org/unit/asset.cache.fall/branch/draft/block/verticala6

Blank Common Problem

BLANK COMMON PROBLEM

Check Show Answer

Editing: Checkboxes

Editor Settings

H1 ABC 123

Advanced Editor ?

A checkboxes problem presents checkbox buttons for student input. Students can select more than one option presented.

[x] correct
[] incorrect
[x] correct

SAVE CANCEL

CHECKBOXES (1 point possible)

A checkboxes problem presents checkbox buttons for student input. Students can select more than one option presented.

correct
 incorrect
 correct

Check Show Answer

Dropdown

EDIT

Open edX

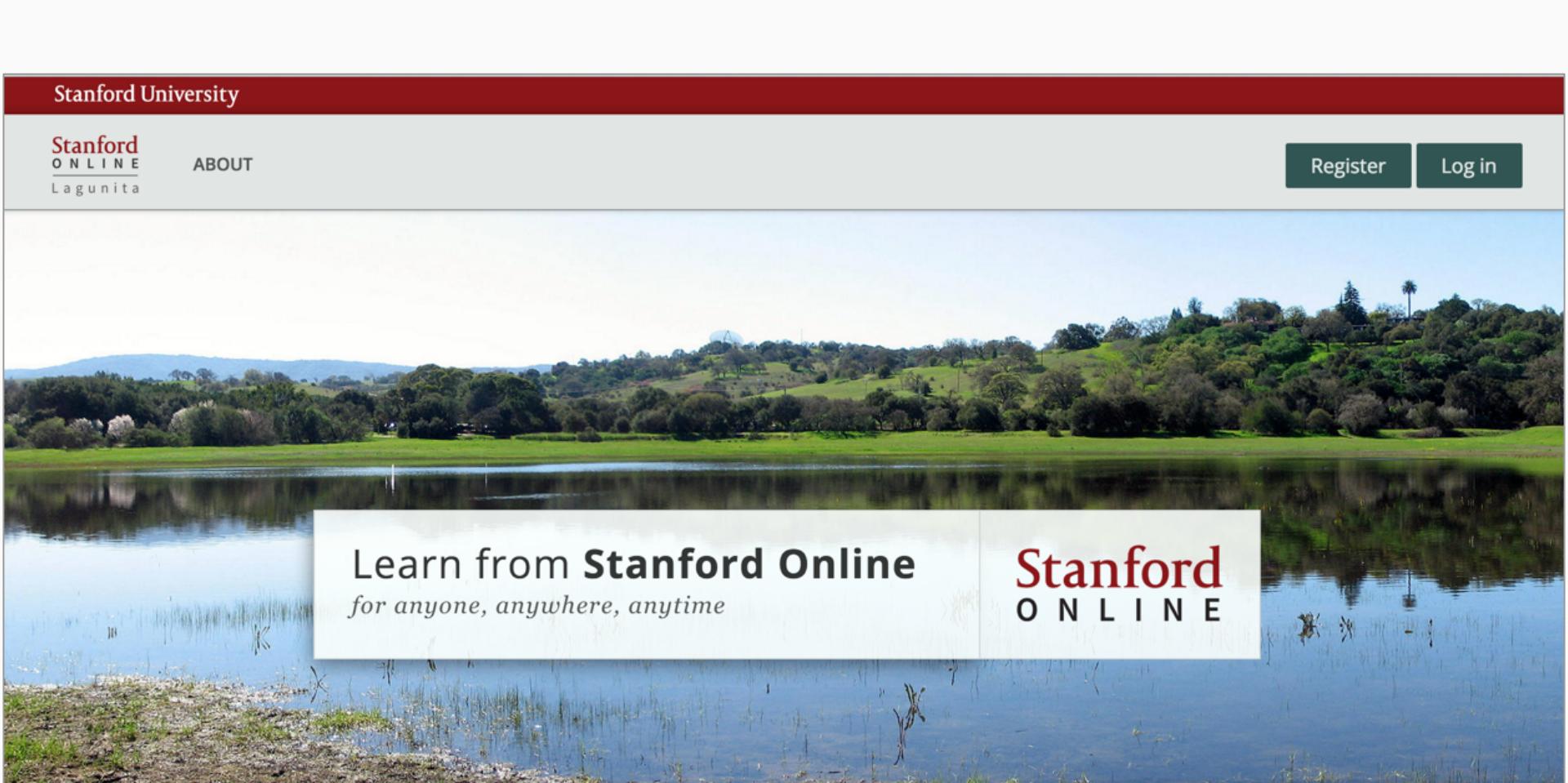
an **open source** platform
for **teaching** and **learning** to foster
innovation in **education**



Open edX

- Platform underlying edx.org
- Open-sourced in June 2013
- Stanford: class.stanford.edu
 - not a member of edX.org!
- We do software so you can do education





Learn from **Stanford Online**
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Stanford
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NEW

DiggingDeeper2: Digging Deeper: The
Form and Function of Manuscripts



O.P.E.N.: Creating Effective Online and
Blended Courses



10Poems: Ten Premodern Poems by
Women



S | Stanford OpenEdX 学堂在线 www.xuetangx.com

xuetangX.com 学堂在线 关于我们 现在注册 登录

来自学堂在线的MOOC课程

你想学习什么? 搜索

新 CS169.1x 云计算与软件工程—第一部分 →

BerkeleyX

新 30240184_2X 数据结构 (下) →

TsinghuaX

新 30700313X 心理学概论 →

Introduction to Psychology TsinghuaX

XuetangX

FUN - France Université Numérique

https://www.france-universite-numerique-mooc.fr

SE CONNECTER

DÉCOUVRIR, APPRENDRE ET RÉUSSIR

QU'EST-CE QUE FUN ? | LES COURS | LES ÉTABLISSEMENTS | S'INSCRIRE MAINTENANT

VIVEZ L'EXPÉRIENCE FUN

Retrouvez les cours des universités et écoles françaises, où vous voulez et quand vous voulez

<  Université Michel de Montaigne Bordeaux 3

 UNIVERSITÉ MONTPELLIER 2
SCIENCES ET TECHNIQUES

 UNIVERSITÉ PANTHÉON-ASSAS
PARIS II

université
 Nanterre La Défense

GROUPE  Institut National
des Sciences Appliquées >

France Université Numérique

odX Pelican

pelic.ru

Регистрация

Вход

Пеликан

он-line
образование

до ЕГЭ
по литературе
осталось

1818-1851

Y = 2x - x²

1818-1851

Y = 2x - x²

Sin VS Cos

E = mc²

23

Sin VS Cos

Здесь лежит
гейнит науки

выб
пред

наши курсы

MZ02 Дистанционный кружок
"Матзнание". 1-2 класс

Математика

MZ04 Дистанционный кружок
"Матзнание". 5-7 класс

чет

:2 :2

5 3 0

Математика

MZ05 Дистанционный кружок
"Матзнание". 3-4 класс

Математика

MZ06 Дистанционный кружок
"Матзнание". 7 класс

2ab + ab²

a b

MZ03 Дистанционный кружок
"Матзнание". Пробный урок для 1-2 классов.

4 < 5

MZ01 Дистанционный кружок
"Матзнание". Пробный урок для 5-6 классов.

-5 -4 -3 -2 -1 1 2 3 4 5

()

pelic.ru



Farm Community

👤 0



Legal and Compliance

👤 0



Dealing with Challenges

👤 0



Devotee Care

👤 0



Deity Worship Standards

👤 0

MGT102 Family Medical Leave Act (FMLA)
Basics: What It Is and What It Is Not



Management



MGT103 A Manager's Tutorial on Child Labor Laws



Management

MGT104 What Managers Need to Know about Workers' Compensation



Management

MGT105 Recruiting Techniques



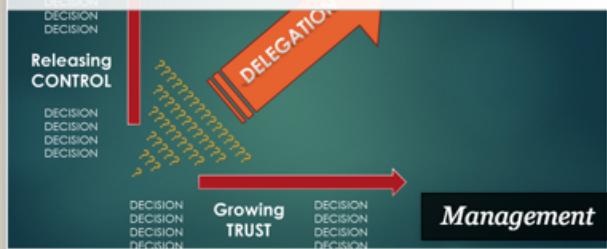
Management

MGT106 A Manager's Guide to Interviewing and Hiring



Management

MGT107 Learning How to Delegate for Success



Management

MGT108 Communicating for Results



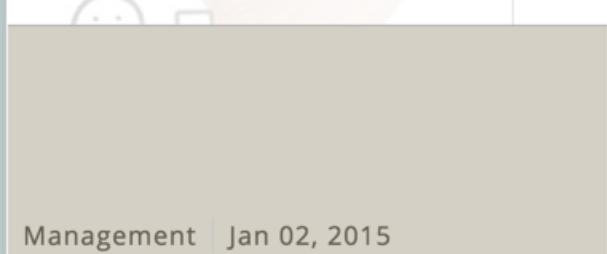
Management

MGT109 Team Motivation and Retention



Management

MGT110 Performance Management



Management Jan 02, 2015

MGT111 Effective Coaching and One-On-Ones



/courses/Management/MGT110/2015/about

MGT112 Employee Counseling and Progressive Discipline



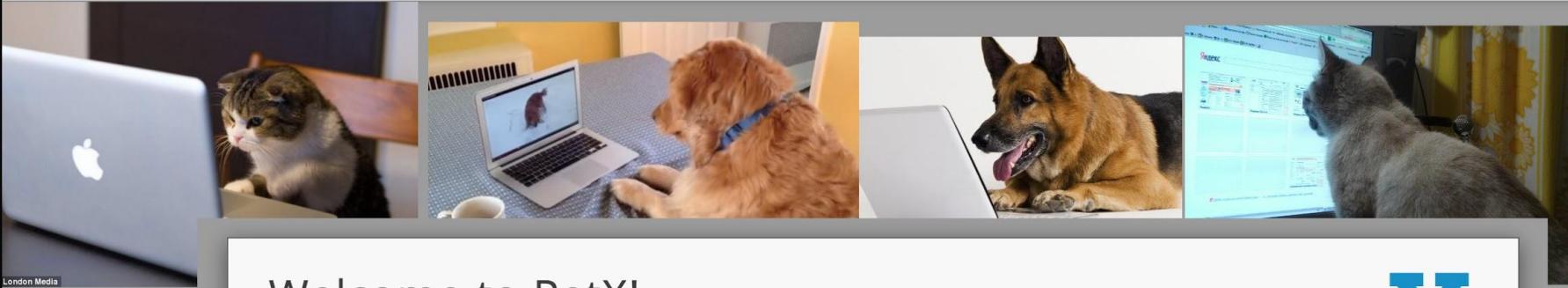
MGT113 Professional Conduct in the Workplace





REGISTER NOW

Sign in



London Media

Welcome to PetX!

we have the best pet courses in the world!!



NEW

LP101 Catch that Dot!



NEW

SQ101 Squirrel!



NEW

GB001 Who's a Good Boy?!?



Open edX impact

- >150 sites running Open edX
- >1500 courses
- 18 languages



Open edX: Community

it's all about the people



You

- Want to educate people
- Need tools
- Let's work together

Open edX Con 2015

- Conference
 - Oct 12-13, Wellesley College
 - 10% off! <http://j.mp/openedx-meetup-con>
- Hackathon
 - Oct 14-15, CIC Boston



Get Involved!

- Starting point: **open.edx.org**
- Google group: **edx-code**
- IRC channel: **#edx-code** on Freenode
- Twitter: **@OpenEdX**
- GitHub: **<http://github.com/edx>**
- Speak at this meetup :)

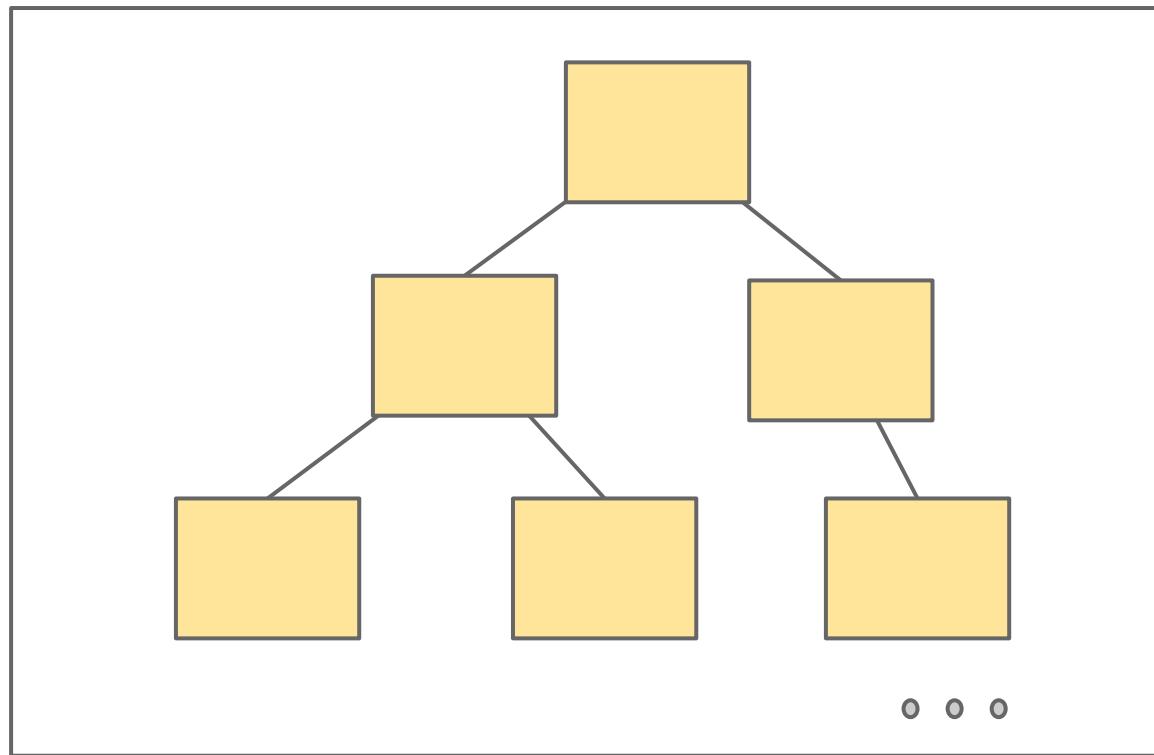


Architecture

what's in the box?

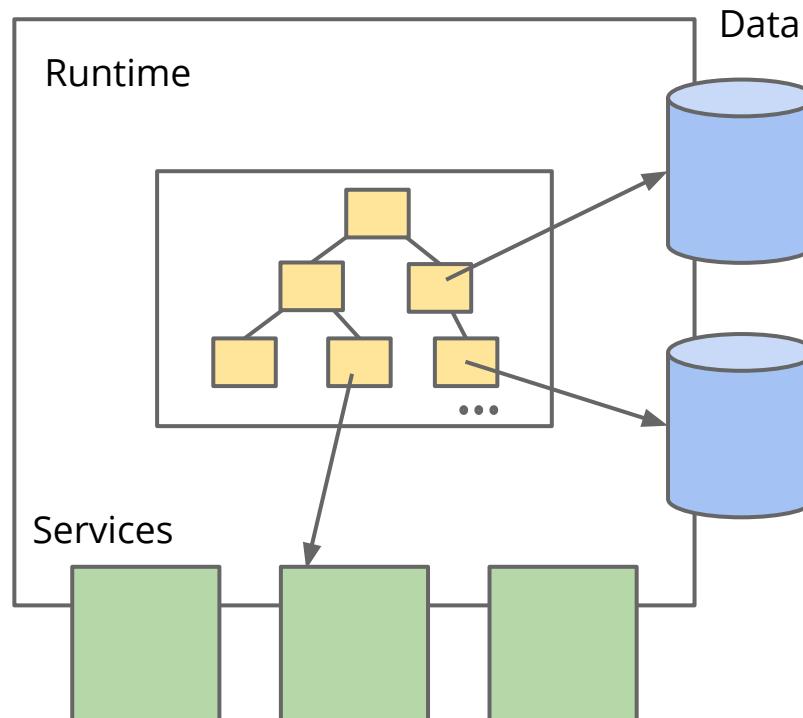
A course

- Built of XBlocks
- Like <div>'s in HTML



XBlock runtime

- Container for XBlocks
- Provides service & data abstractions



edX Learning Management System

- XBlock runtime
- Data storage
 - Course in Mongo
 - Student data in MySQL
 - Abstracted away by XBlocks
- Provides much more



edX LMS

Registration

Profiles

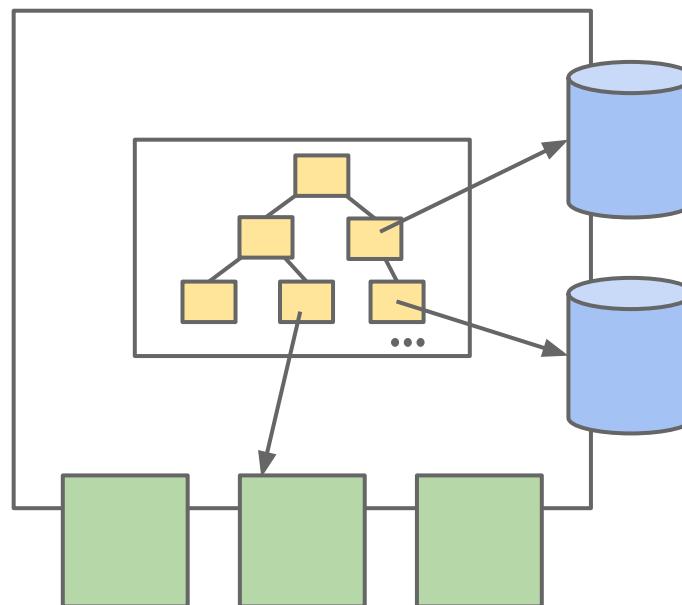
Cohorting

Instructor dash

Reporting

Commerce

Certificates



Grading queue

Peer grading

Progress

Forums

Wiki

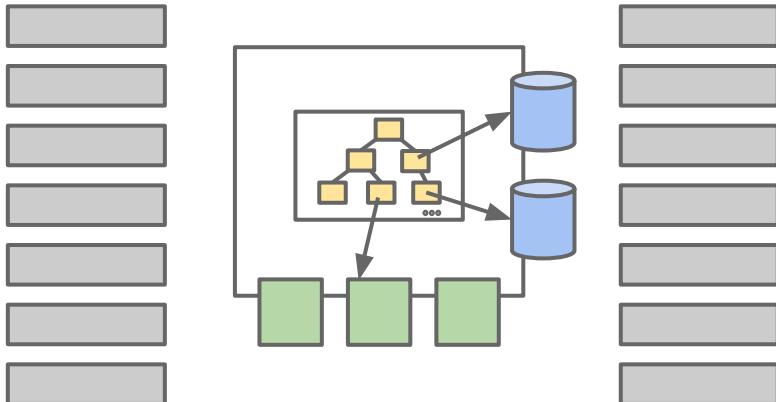
Translation

Theming

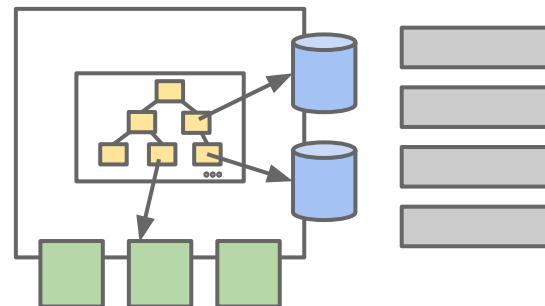
Everything



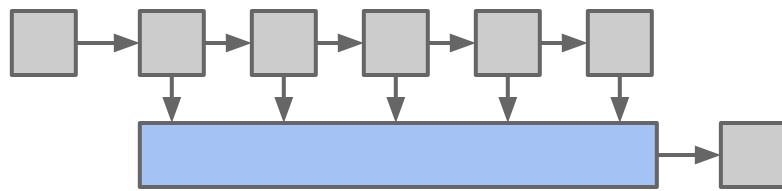
LMS



Studio



Analytics



Extending Open edX

how can I make it different?



Extension points

- XBlock
- LTI
- JSInput
- core code
- Future: more APIs

XBlocks

- Components for courseware
- Separate concerns
 - We make the LMS
 - You make the component

What is an XBlock?

- A Python package
- A class with:
 - Data fields
 - Views for presentation
 - Handlers for input
- A web app, one div at a time
 - use existing assets and skills

What can an XBlock do?

- Store data: content, student state, etc.
 - Storage details abstracted away
- Present data
 - HTML, CSS, Javascript
- Process user input
 - Record grades, modify state
- Run any Python code

Contribution

- >1000 external pull requests merged
- #X contributors

Open edX future

- Grow a flexible powerful platform
- Educate at least half a billion students



Get involved!

The screenshot shows the Open edX website homepage. At the top, there's a navigation bar with links for Documentation, Log In, Sign Up, and a search bar. Below the navigation is a main menu with links for Getting Started, Features, Hosting, Extending, Contributing, and Community.

The main content area features a large graphic with three overlapping circles: purple (top left), grey (center), and blue (bottom right). The purple circle contains a speech bubble with the text "Join us at the 2015 Open edX Conference!". The grey circle contains a lightbulb icon. The blue circle contains a wrench icon. Below the purple circle is a button that says "Learn more and register today!". A callout text below the purple circle reads: "Register and reserve your hotel soon - our discounted rates expire Friday, September 4th!"

To the right of the graphic is a sidebar titled "Announcements" which links to "Read what's new with Open edX, including security bulletins". It also includes sections for "Community Blog", "Documentation", "JIRA", "GitHub", and "Mailing Lists".

At the bottom of the main content area is a blue banner with the text "Alert: YouTube Videos on Open edX" and a "Learn More" button.

The footer is divided into several sections: "UPCOMING EVENTS" (listing "Open edX Con" on October 12, 2015, in Wellesley, MA, and "Open edX Universities" on November 11, 2015, in Auditorium (room 100), Milken School of Public Health, George Washington University, Washington DC); "MOST RECENT BLOG POSTS" (listing "Open edX Con Announces Keynote Speaker Jeff Jaffe, CEO of W3C" by Joel Barciauskas on Thursday, September 24, 2015, and "Open edX Con 2015: Analytics in Education Technology"); and a "Keep Up With Open edX" section with links for signing up for an e-mail list, checking out on Twitter, joining the conversation on IRC, and reporting security concerns/questions.



open.edx.org

Summary

- edX wants 1 billion students
- You want to educate
- Let's join forces to **re-imagine** education



Questions?

github.com/edx

open.edx.org

Ned Batchelder
@nedbat

