



ITKAN
Exploring technology without limits

Self-Directed Learning

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Digital education platforms



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- Opportunity to learn a skill in a compressed amount of time
- Sharpen skills for their existing roles
- Develop talents for next career moves
- Organizations of all types who embrace remote work and education
- Help people become more informed and articulate on many hot topics
- Strengthens confidence
- Read these [series of articles](#) on The Economist to gain more insight into how technological change demands stronger and more continuous connections between education and employment.



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Khan Academy



Khan Academy



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- Non-profit educational organization
- Created in 2006 by educator Salman Khan
- Goal of creating an accessible place for people to be educated
- Produces short lectures in the form of YouTube videos
- A range of subjects including
 - Math by Subject and by Grade
 - Science & Engineering
 - Computing including Computer Science and Computer Programming
 - Arts & Humanities
 - Economics & Finance
 - Test Prep including SAT, MCAT, & GMAT
 - College Admissions

Khan Academy




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Khan Academy

- Learn something very specific
- Articles
- Videos (transcribed)
- Courses
- Track progress

The image shows a screenshot of a Khan Academy page. The top header is green with the Khan Academy logo and the user name 'chorba.brian'. The main heading is 'Implementing binary search of an array'. Below the heading are social sharing options: 'Share to Google Classroom', 'Share', 'Tweet', and 'Email'. The main text discusses binary search on a sorted array and provides a JavaScript array of the first 25 prime numbers: `var primes = [2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, ...]`. Below the text is a video player with a blue header. The video content shows handwritten notes: 'Random Variable', 'Random Process', 'Outcomes -> numbers', and a piecewise function:
$$X = \begin{cases} 1 & \text{if heads} \\ 0 & \text{if tails} \end{cases}$$
. The video player interface includes a play button, a progress bar at 1:40 / 5:31, and a 'Was this video helpful?' poll with 'Yes' and 'No' buttons.

Random variables



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Codecademy



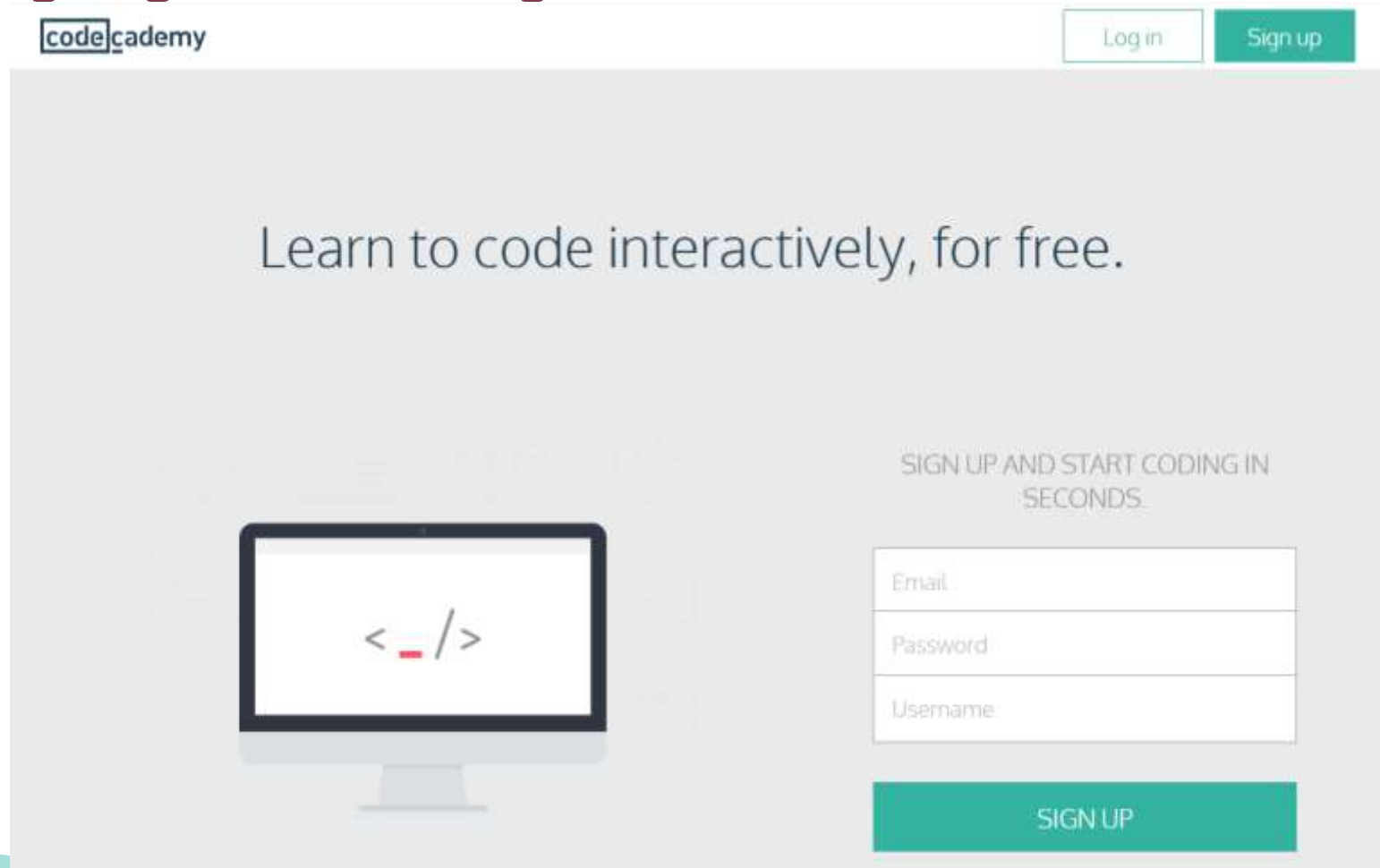
Codecademy



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Online interactive platform that offers free coding classes in 12 different programming languages including

- HTML and CSS
- Python
- Java
- PHP
- JavaScript
- Ruby
- SQL
- Sass



Codecademy

- Interaction
- Practice
- Badging
- Very effective for learning new tech topics



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A screenshot of the Codecademy website. At the top, there's a navigation bar with the Codecademy logo, a search bar, and 'Login' and 'Sign up' buttons. Below this is a dark green banner with the text 'Not sure where to start?' and 'Let us set you up for success with one of Codecademy Pro's learning paths... or make your own!'. There are icons for various technologies like PHP, JavaScript, and Python, and an 'Upgrade Now' button. Below the banner is a navigation menu with categories: 'All Courses', 'Web Development', 'Languages', 'Tools', 'APIs', and 'Data Analytics'. A 'Sort by' dropdown menu is set to 'Default'. The main content area displays four course cards: 'Learn HTML & CSS: Part I', 'Learn JavaScript', 'Learn Sass', and 'Make a Website'. Each card has a 'Preview' button and a brief description of the course content.



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Vendor Specific



Microsoft

- Microsoft Virtual Academy
- From Beginner to Expert
- Program related
- Additional training specific to getting certification
- Videos (with transcripts)
- Save courses in Learning Plan



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Free Microsoft training delivered by experts

Developers

IT Pros

Data Pros

Students

 Windows 10	 Virtualization	 Enterprise Security	 PowerShell	 Desktop & Device Management
 Azure for IT Pros	 Office 365 for IT Pros	 DevOps	 Windows Server	Browse all IT pro courses 

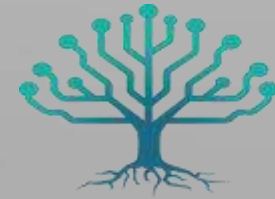
Microsoft Virtual Academy



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- ▶ You will need to have a Microsoft account
- ▶ You can create one when you try to sign up

The screenshot shows the Microsoft Virtual Academy interface for the course 'SQL Database Fundamentals'. The course is labeled as 'Beginner' and was published on 27 January 2017. It is taught by Graeme Malcolm and Chris Randall. The main video player shows two instructors at a desk with a screen displaying the course title. The video has a progress bar at 00:09:56. To the right, there is a 'Table of contents' section with a 'Learning Plan' indicator showing 4/5 completion. The table of contents lists three sections: '1 | Introduction to Databases' (with sub-items: 'Video: Introducing Databases' at 00:09:56, 'Demonstration: Creating and Configuring a Database' at 00:15:00, and 'Video: Module Wrap-Up' at 00:01:23), '2 | Getting Started with Tables', and '3 | Working with Data in Tables'. The interface includes navigation tabs for Information, Contents, Resources, Transcript, and Forum, along with social media sharing options for Facebook, Twitter, and LinkedIn.



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MOOCs

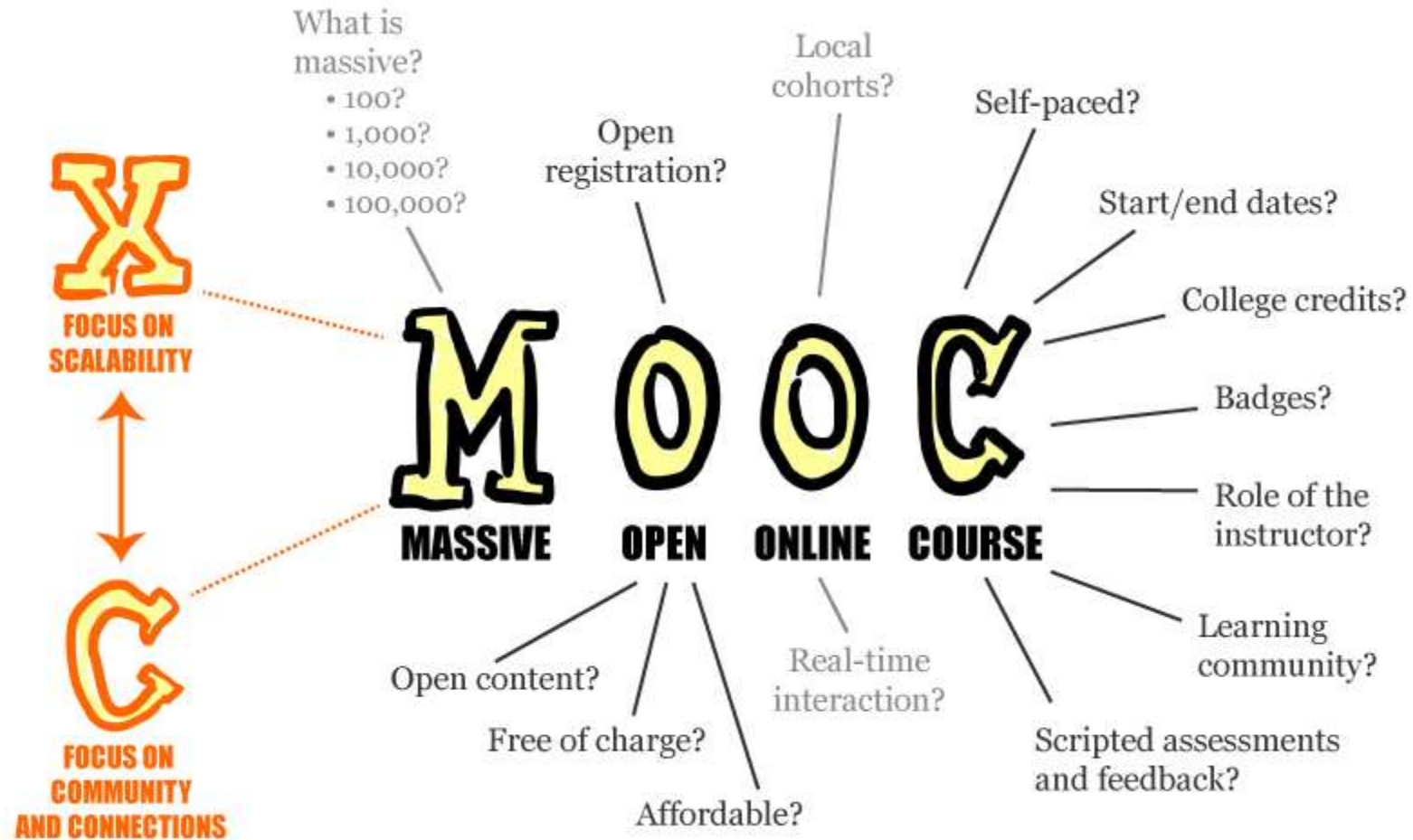
»» Massive Open Online Courses

MOOCs



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- Delivered by universities or training organizations
- Many are self paced
- Edx.org - non-profit, open source
- Programs and certificates
- Read more about MOOCs in this [article](#) from The Economist



- Founded by Harvard & MIT
- Learning destination & MOOC provider
- Connected to universities
- Courses
- Transcript next to video
- Instructor lead or self-paced
- Certificates – uses webcam / photo ID
- Minimum fee
- MicroMasters



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Featured Courses

Course	Status	Starts
UQx English Grammar and Style	Starting Soon	February 26, 2017
ColumbiaX Artificial Intelligence (AI)	Current	January 15, 2017
RITx Project Management Life Cycle	Current	January 22, 2017

Refine your search

Category	Count
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Current	442
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Upcoming	94
Self-Paced	479
Archived	542
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Architecture	14
Art & Culture	89
Biology & Life Sciences	120
Business & Management	231
Chemistry	32
Communication	51
Computer Science	274
Data Analysis & Statistics	126

Contact info



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- ▶ If you have suggestions, additions, or see an error; please contact me at
- ▶ Brian.Chorba@spr.com
- ▶ Connect with me on [LinkedIn](#)
- ▶ Join the [ITKAN LinkedIn Group](#) and continue the discussion
- ▶ Follow me on [Twitter](#)