



# Anything Anytime Anywhere

Prepared by:

Johara Aljarri and Asma Yamani



# Why do U need this lecture?!

- for every time unit of lecturing you need 25 units for preparing ..



some points we have to  
agree on



we here to learn .



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- google
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- MIT open courseware
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- SIMPLY put the main word"s" in the topic you are searching about ..



lets say you wanna know about limits to infinity

go to these websites until you see the best then tweet ;)

Google

مميزة البحث

الويب

النتائج من 1 إلى 10 من حوالي 555.000.000 عن limits باستخدام ميزة البحث الآمن.

بحث متقدم

[Limit \(mathematics\) - Wikipedia, the free encyclopedia](#)  
In mathematics, the concept of a "limit" is used to describe the value that a function or sequence "approaches" as the input or index approaches some value ...  
en.wikipedia.org/wiki/Limit\_(mathematics) - نسخة مخبأة - مماثلة

[Limit of a function - Wikipedia, the free encyclopedia](#)  
Although the function  $(\sin x)/x$  is not defined at zero, as  $x$  becomes closer and closer to zero,  $(\sin x)/x$  becomes arbitrarily close to 1. It is said that "the limit ..."  
en.wikipedia.org/wiki/Limit\_of\_a\_function - نسخة مخبأة - مماثلة

[Introduction to Limits](#)  
Objectives: The first part of this tutorial contains a list of theorems that can be used to evaluate many limits. The second part contains a collection of examples ...  
archives.math.utk.edu/visual.calculus/1/limits.7/ - نسخة مخبأة - مماثلة

[Cool math Lessons - Calculus - What's a limit?](#)  
This lesson explains the concept of a limit (in Calculus) from various points of view.  
www.coolmath.com/limit1.htm - نسخة مخبأة - مماثلة

[Limits \(PRIME\)](#)  
Limits, an exposition of this essential calculus topic from the Platonic Realm's Interactive Math Encyclopedia.  
www.mathacademy.com/pr/prime/articles/limits/index.asp - نسخة مخبأة - مماثلة

[8. Calculus: Limits and Derivatives](#)  
Limits. We do not intend to go into theoretical considerations about limits and other ... We say that the limit of  $f(x)$  as  $x$  approaches  $a$ , is  $L$ , and write  $\lim_{x \rightarrow a} f(x) = L$ . We ...  
www.math.mcmaster.ca/lovric/rm/rmchapter8.pdf - نسخة مخبأة - مماثلة

[Limits to Infinity](#)  
LIMITS OF FUNCTIONS AS  $x$  APPROACHES INFINITY ...  
www.math.ucdavis.edu/~kouba/.../LimitInfinity.html - نسخة مخبأة - مماثلة

[Limit -- from Wolfram MathWorld](#)  
DOWNLOAD Mathematica Notebook EXPLORE THIS TOPIC IN the MathWorld Classroom.



**Objectives:** The first part of this tutorial contains a list of theorems that can be used to evaluate many limits. The second part contains a collection of examples that these theorems cannot be used to evaluate immediately. It is shown how to do some algebraic manipulation to put these examples in the form so that the theorems can be applied. After working through these materials, the student should know these basic theorems, how to apply them to evaluate limits and how to manipulate certain examples so that the theorems may be used.

**Modules:**

- To help us in the symbolic or algebraic computation of limits, we have a list of limit theorems.  
[\[Using Flash\]](#) [\[Using HotEqn\]](#) [\[Using IBM Professional TechExplorer\]](#)
- As a result of these theorems, we see that for many functions  $f$ ,

$$\lim_{x \rightarrow a} f(x) = f(a)$$

A function which has this property is called **continuous**. From the above-mentioned list of limit theorems, we see that polynomial functions and rational functions are continuous. We will study continuous functions more extensively in another module.

The following examples demonstrate how we can evaluate limits of functions which are not continuous by using the above-mentioned list of limit theorems. These include many of the examples which were explored numerically and/or graphically.

- **Examples.**

- $\lim_{x \rightarrow 4} \frac{x^2 - 7x + 12}{x - 4}$

Discussion [\[Using Flash\]](#)

- $\lim_{x \rightarrow 1} \frac{\sqrt{x^2 + x + 23} - 5}{x - 1}$

Discussion [\[Using Flash\]](#)

- $\lim_{x \rightarrow 0} \frac{\sqrt[3]{x^3 + 8} - 2}{x^3}$

Discussion [\[Using Flash\]](#)

- $\lim_{x \rightarrow 3} f(x)$  where  $f(x) = \begin{cases} x^2 + 5 & \text{if } x \neq 3 \\ 7 & \text{if } x = 3 \end{cases}$



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[Minterm vs maxterm solution : KARNAUGH MAPPING](#)  
[www.allaboutcircuits.com > ... > KARNAUGH MAPPING - Cached](#)  
The procedure below for mapping product **terms** is not new to this chapter. ... a single 1 and the remaining cells as 0s, it would appear to cover a **minimum** area of 1s. ... We have not shown the 0s in our **Karnaugh maps** up to this point, as it is ... 0 and the remaining cells as 1s, it would appear to cover a **maximum** area of 1s. ...  
You visited this page on 10/29/11.

[\[PDF\] Minterms, Maxterms, and K-Maps](#)  
[www.cs.uiuc.edu/class/sp08/cs231/lectures/04-Kmap.pdf](#) [+1](#)  
File Format: PDF/Adobe Acrobat - [Quick View](#)  
Each **term** that is summed must be a product of literals. • The advantage ..... Both of these minterms appear in the top row of a **Karnaugh map**, which means that ...  
You visited this page on 10/29/11.

[Computer Logic](#)  
[www.cppjj.com/computerlogic/minmax.htm - Cached](#)  
The **Min & Max term** help us to simplify the boolean expression, by using a **K-map**. Here is a basic table for the **K-map**, there are different ways of doing it. ...

[Lecture 8 - Karnaugh Map Minimization Using Maxterms - YouTube](#)  
[www.youtube.com/watch?v=i\\_HYxdri69Y - Cached](#)  
17 Dec 2007 – Lecture 8 - **Karnaugh Map** Minimization Using Maxterms .... Lecture 6 - **Karnaugh Maps** And Implicants by nptelhrd60030 views · Thumbnail 52: ...

[4 Variable K-Maps \(reading and writing\)](#)  
[www.physicsforums.com/showthread.php?t=345909 - Cached](#)  
5 posts, 2 authors, Last post: 16 Oct



appears exactly once.

- A function with  $n$  variables has  $2^n$  minterms (since each variable can appear complemented or not)
- A three-variable function, such as  $f(x,y,z)$ , has  $2^3 = 8$  minterms:

$x'y'z'$	$x'y'z$	$x'yz'$	$x'yz$
$xy'z'$	$xy'z$	$xyz'$	$xyz$

- Each minterm is true for exactly one combination of inputs:

Minterm	Is true when...	Shorthand
$x'y'z'$	$x=0, y=0, z=0$	$m_0$
$x'y'z$	$x=0, y=0, z=1$	$m_1$
$x'yz'$	$x=0, y=1, z=0$	$m_2$
$x'yz$	$x=0, y=1, z=1$	$m_3$
$xy'z'$	$x=1, y=0, z=0$	$m_4$
$xy'z$	$x=1, y=0, z=1$	$m_5$
$xyz'$	$x=1, y=1, z=0$	$m_6$
$xyz$	$x=1, y=1, z=1$	$m_7$



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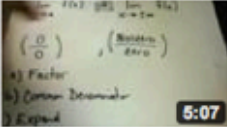



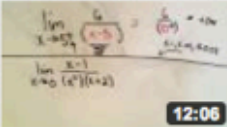
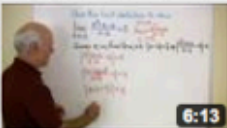

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limits

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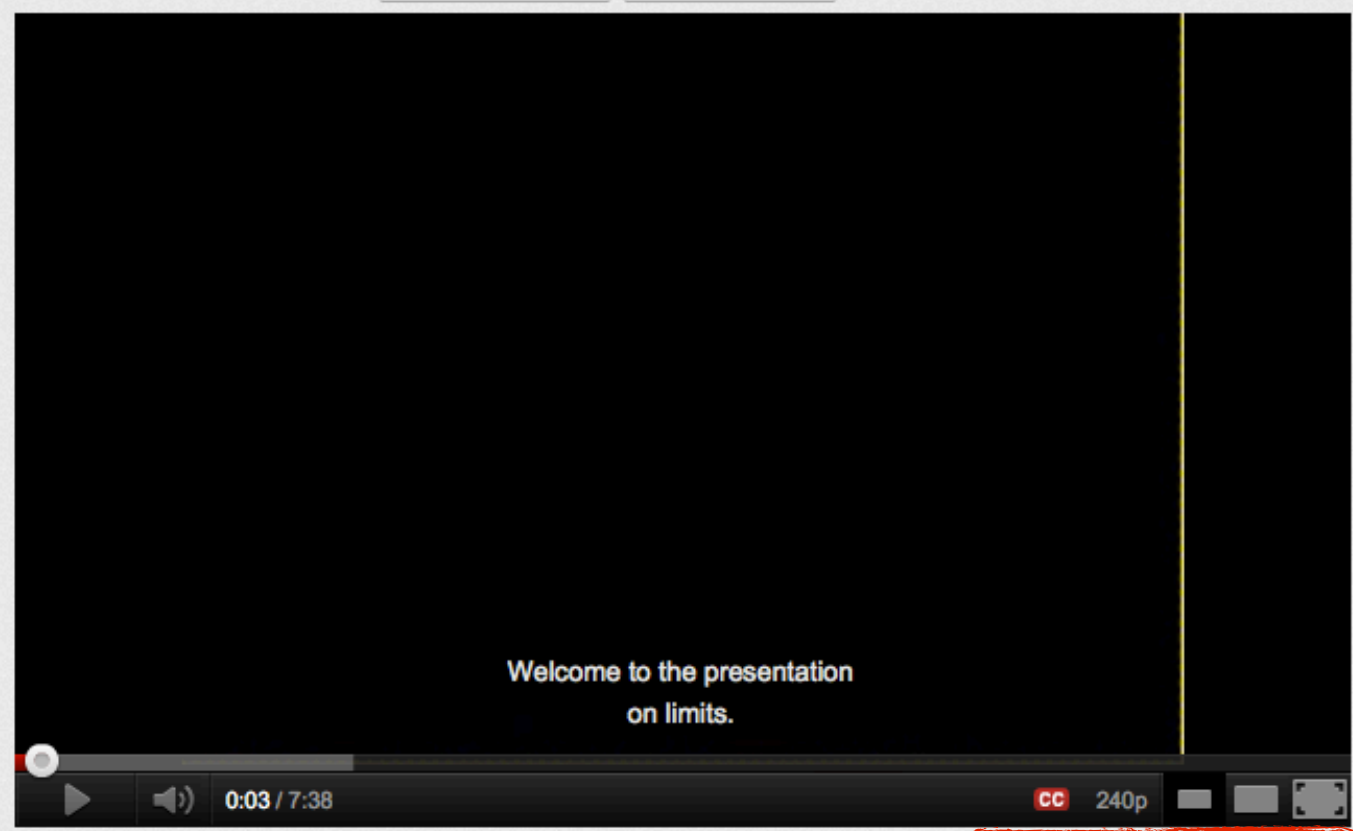
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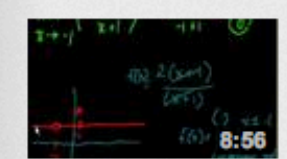
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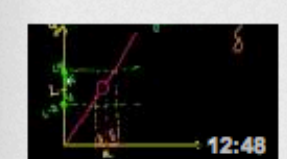
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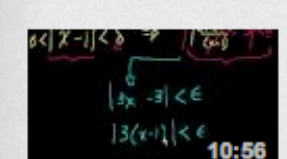
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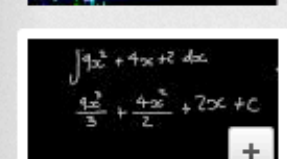
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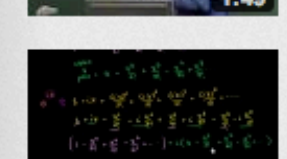
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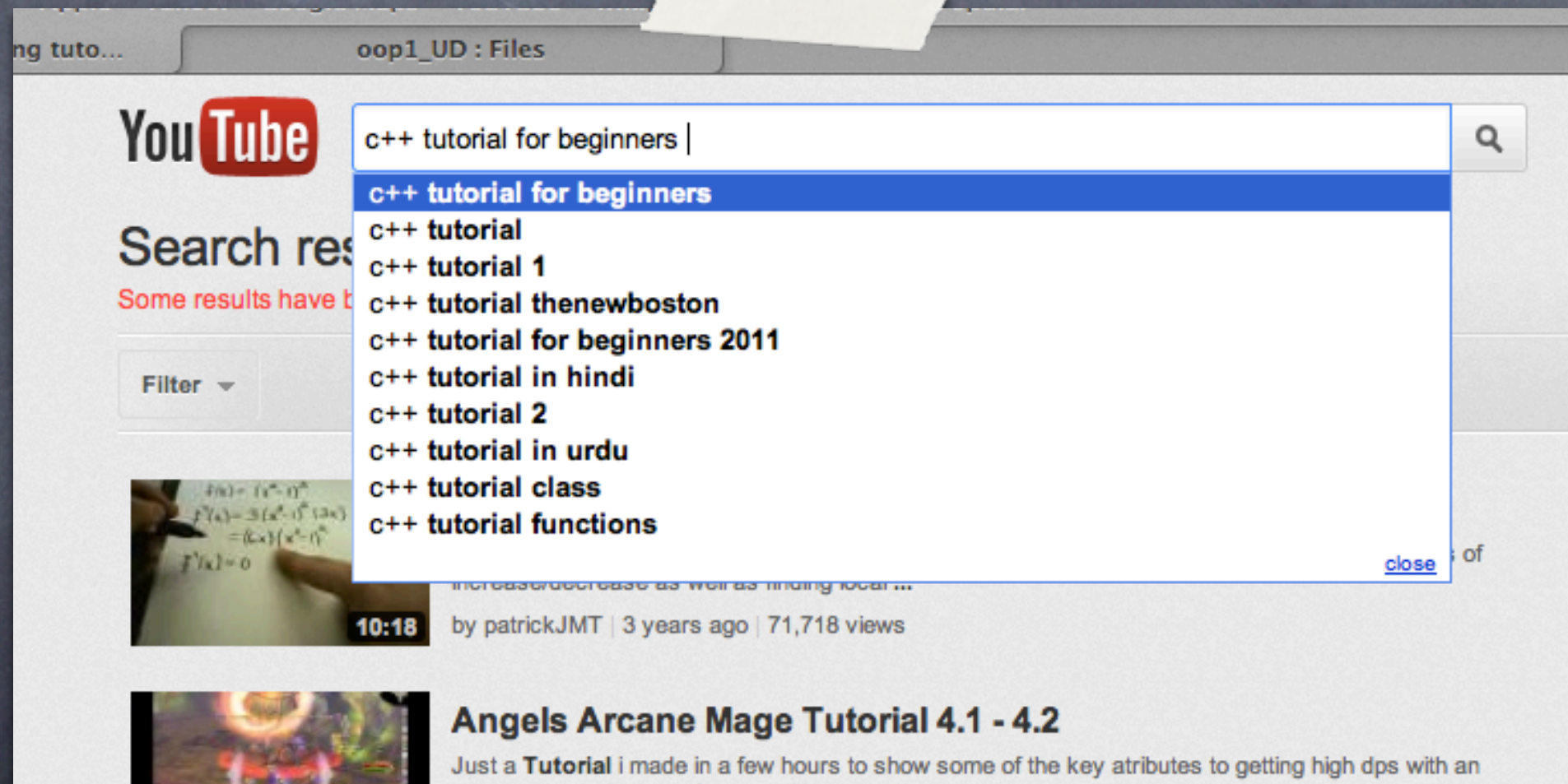
1.7 Limit Definition - Epsilon Delta [02]

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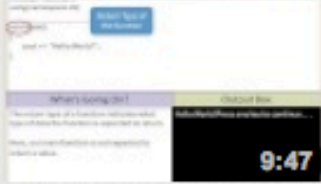
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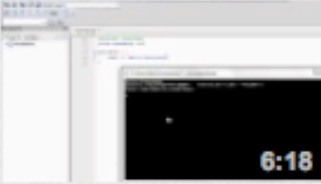
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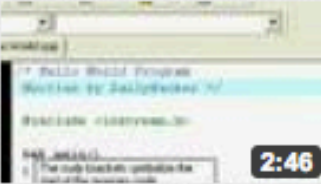
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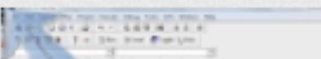
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3     canvas = x.getContext('2d');  
4  
5  
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8  
9
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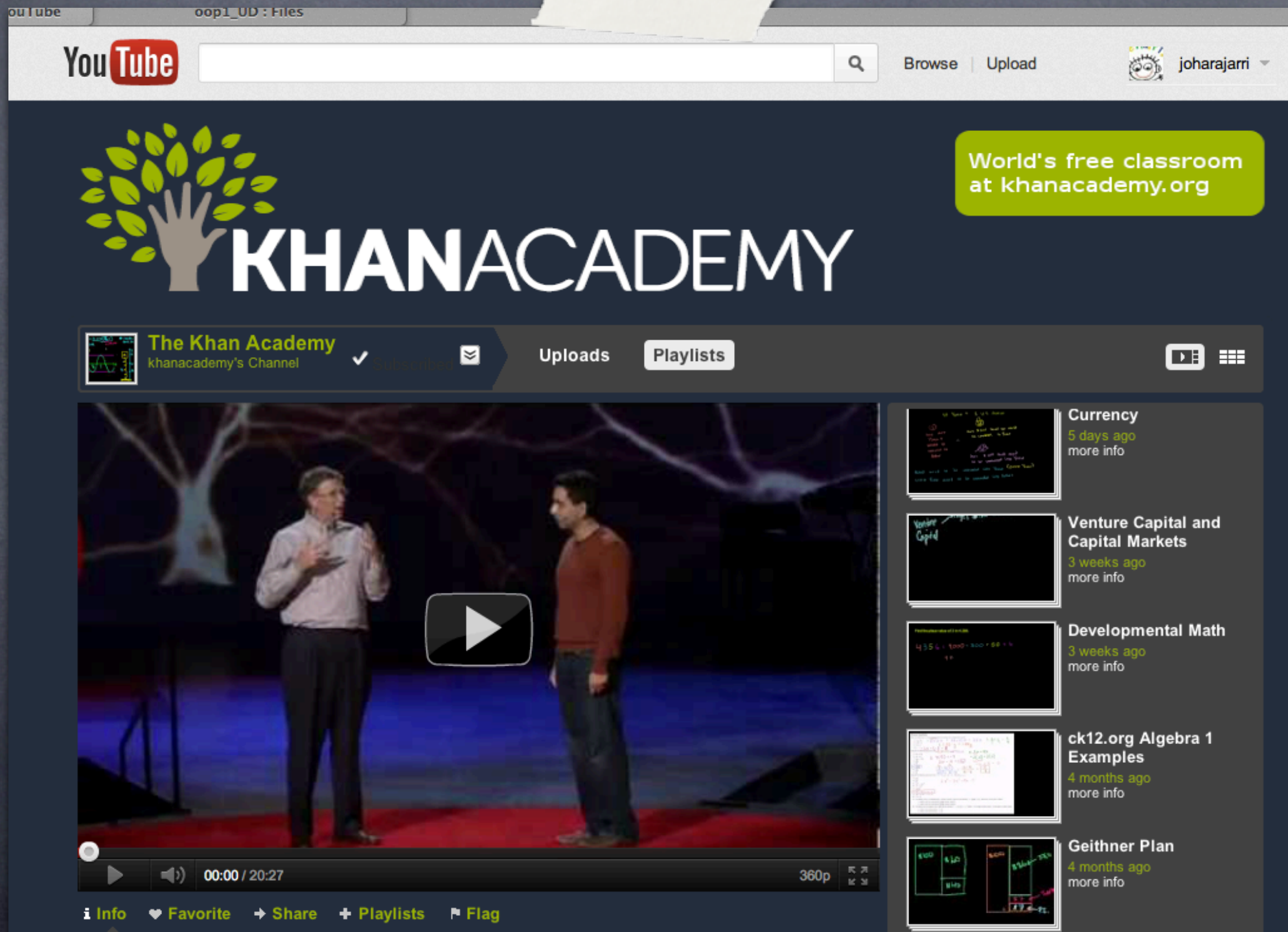
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
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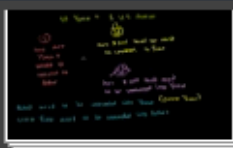
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As taught in: January IAP 2011



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### Course Description

This is a fast-paced introductory course to the C++ programming language. It is intended for those with little programming background, though prior programming experience will make it easier, and those with previous experience will still learn C++-specific constructs and concepts.

### Instructors:

Jesse Dunietz

Geza Kovacs

John Marrero

### MIT Course Number:

6.096

### Level:

Undergraduate

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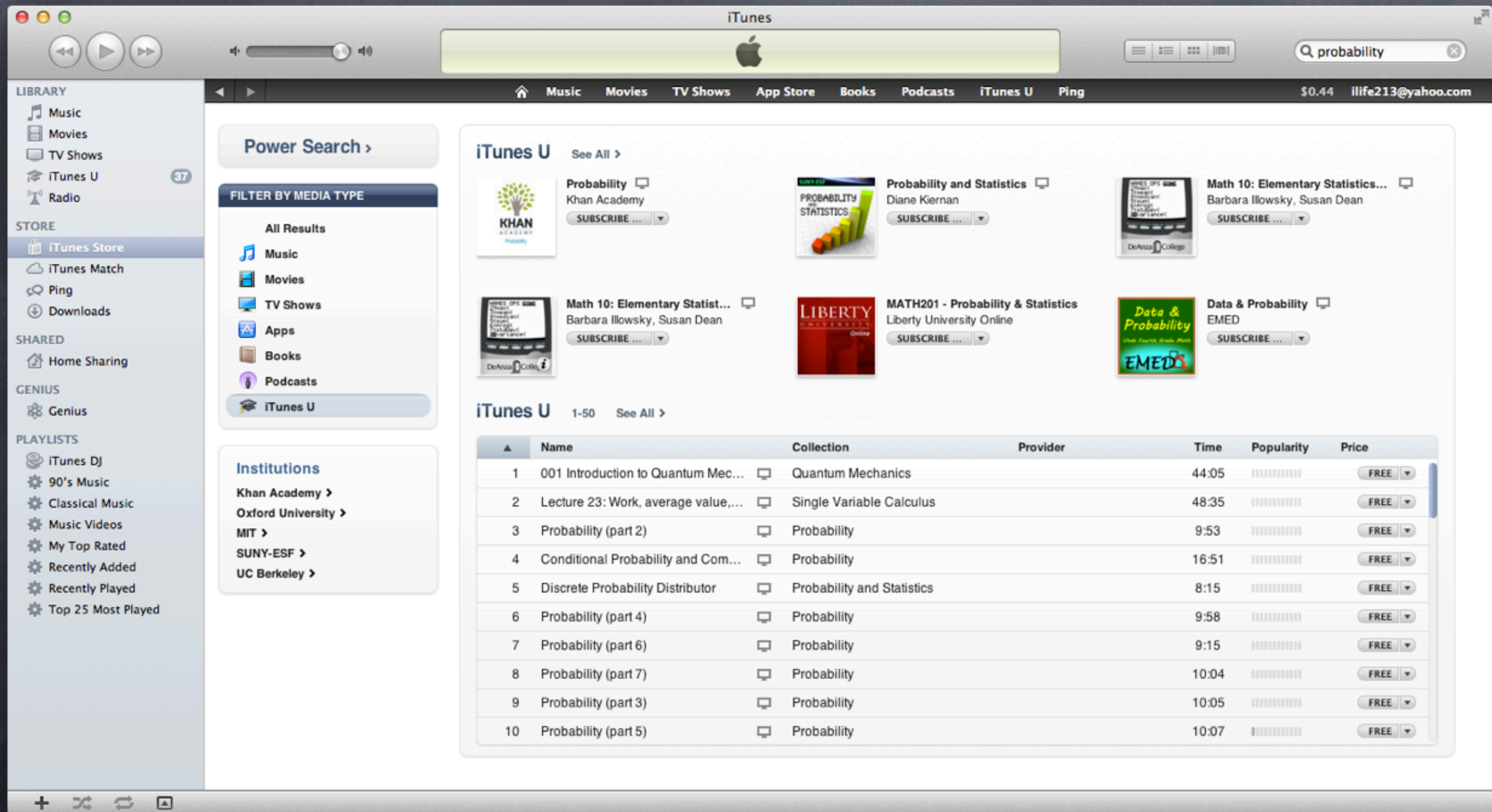
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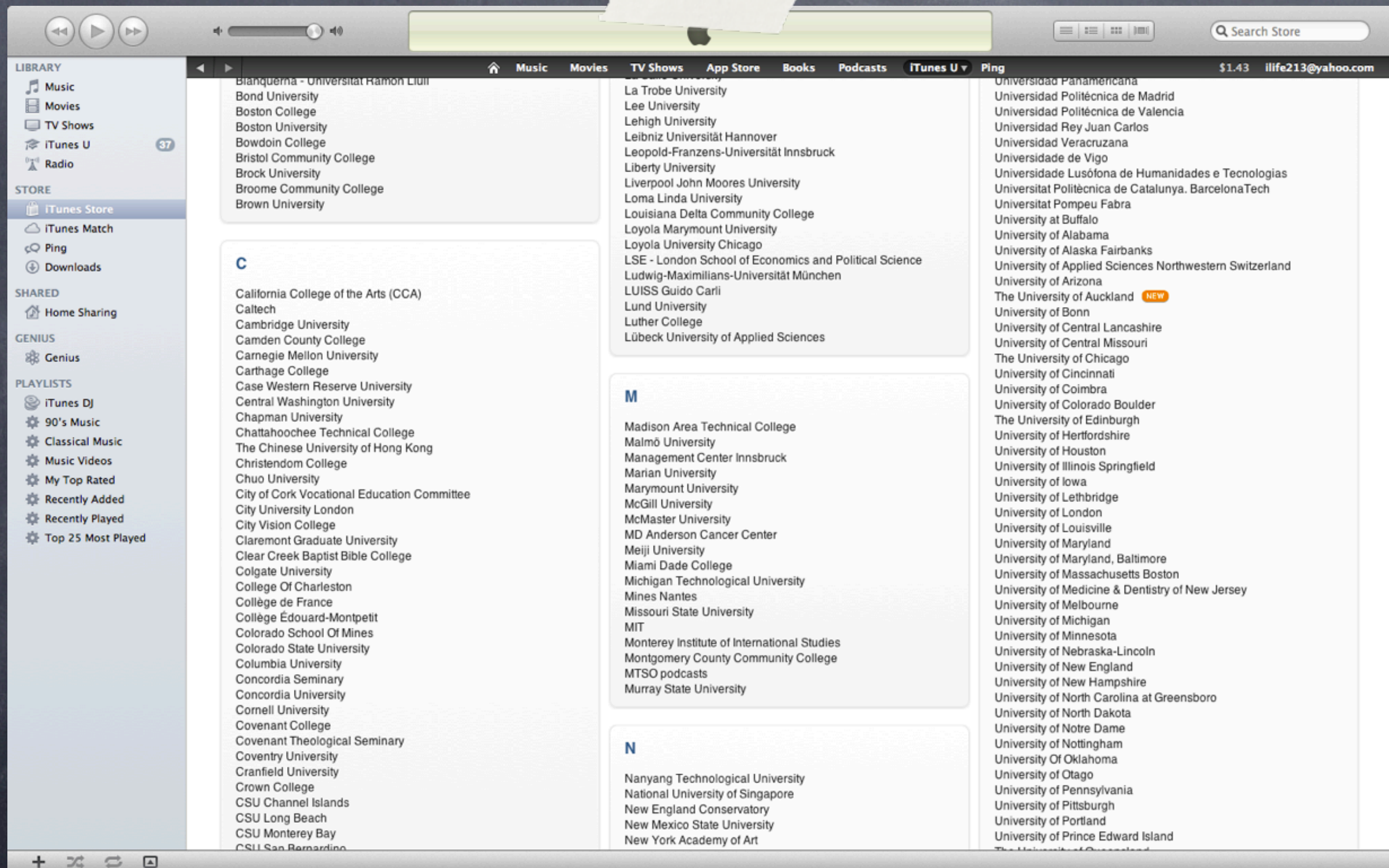














Saturday, December 17, 11







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## STANFORD

### Programming Methodology

Mehran Sahami

**Description**

This course is the largest of the introductory programming courses and is one of the largest courses at Stanford. Topics focus on the introduction to the engineering of computer applications emphasizing modern software engineering principles: object-oriented design, decomposition, encapsulation, abstraction, and testing. Programming Methodology teaches the widely-used Java programming language along with good software engineering principles. Emphasis is on good...

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## introduction to computer science | programming methodology

Instructor: Sahami, Mehran

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Prerequisites: The course requires no previous background in programming, but does require considerable dedication and hard work.

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### COURSE CONTENT:

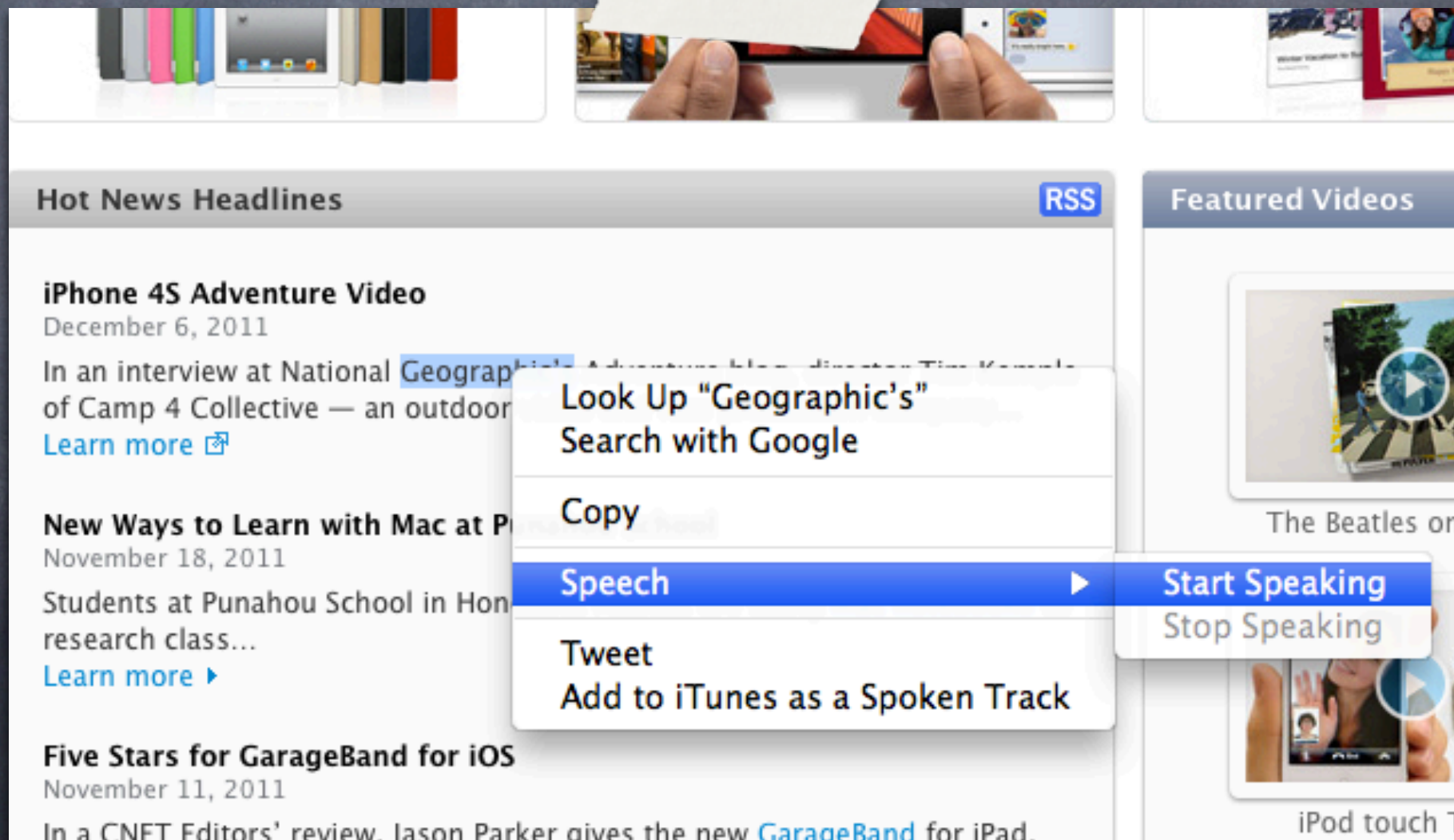
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### Mehran Sahami

I joined the Computer Science Department at Stanford University as Associate Professor (Teaching), Associate Chair for Undergraduate Education, and Director of Educational Affairs. From 2001 to 2006, I also taught in the CS department at Stanford as a Lecturer.



# a tip for Mac users

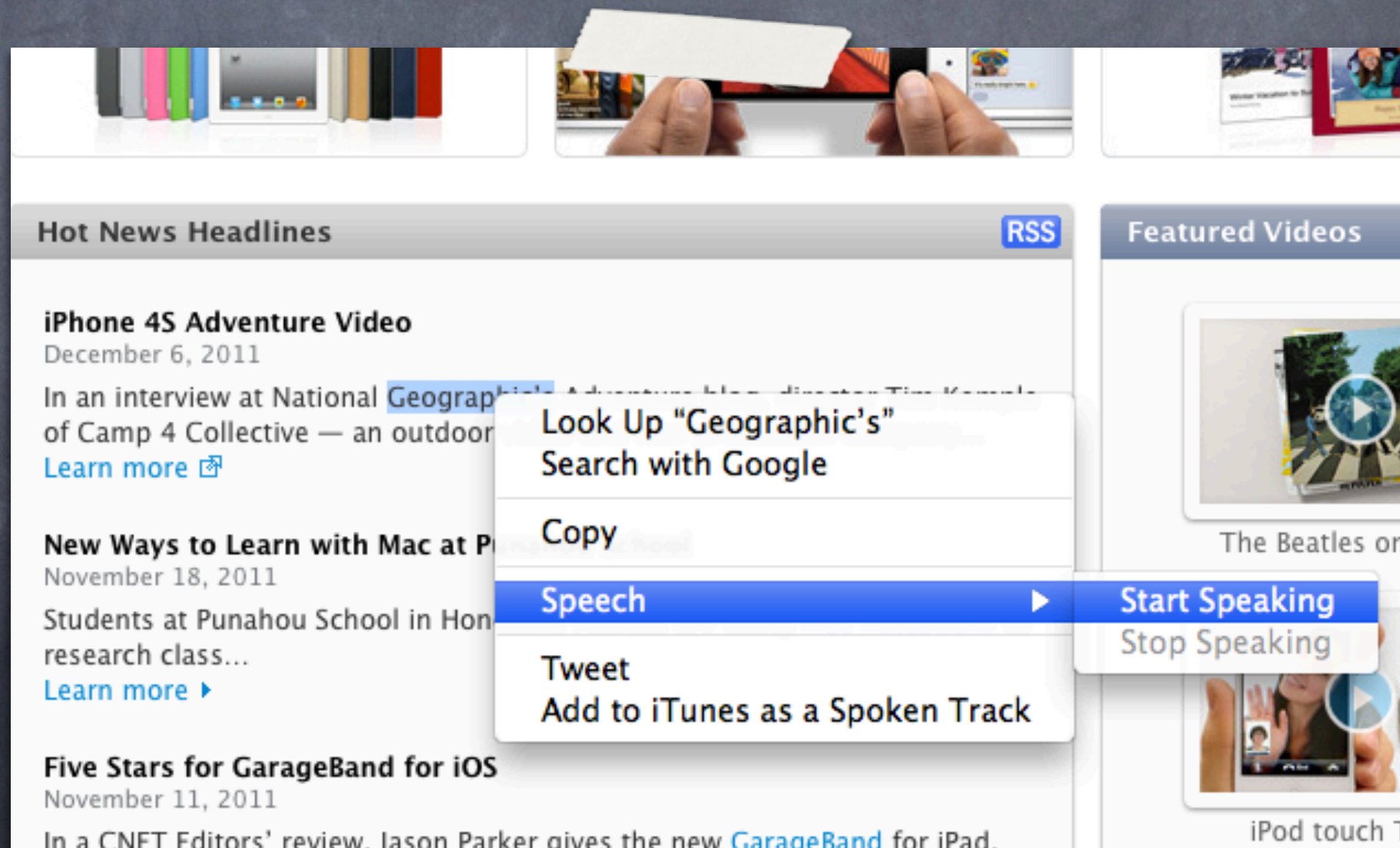




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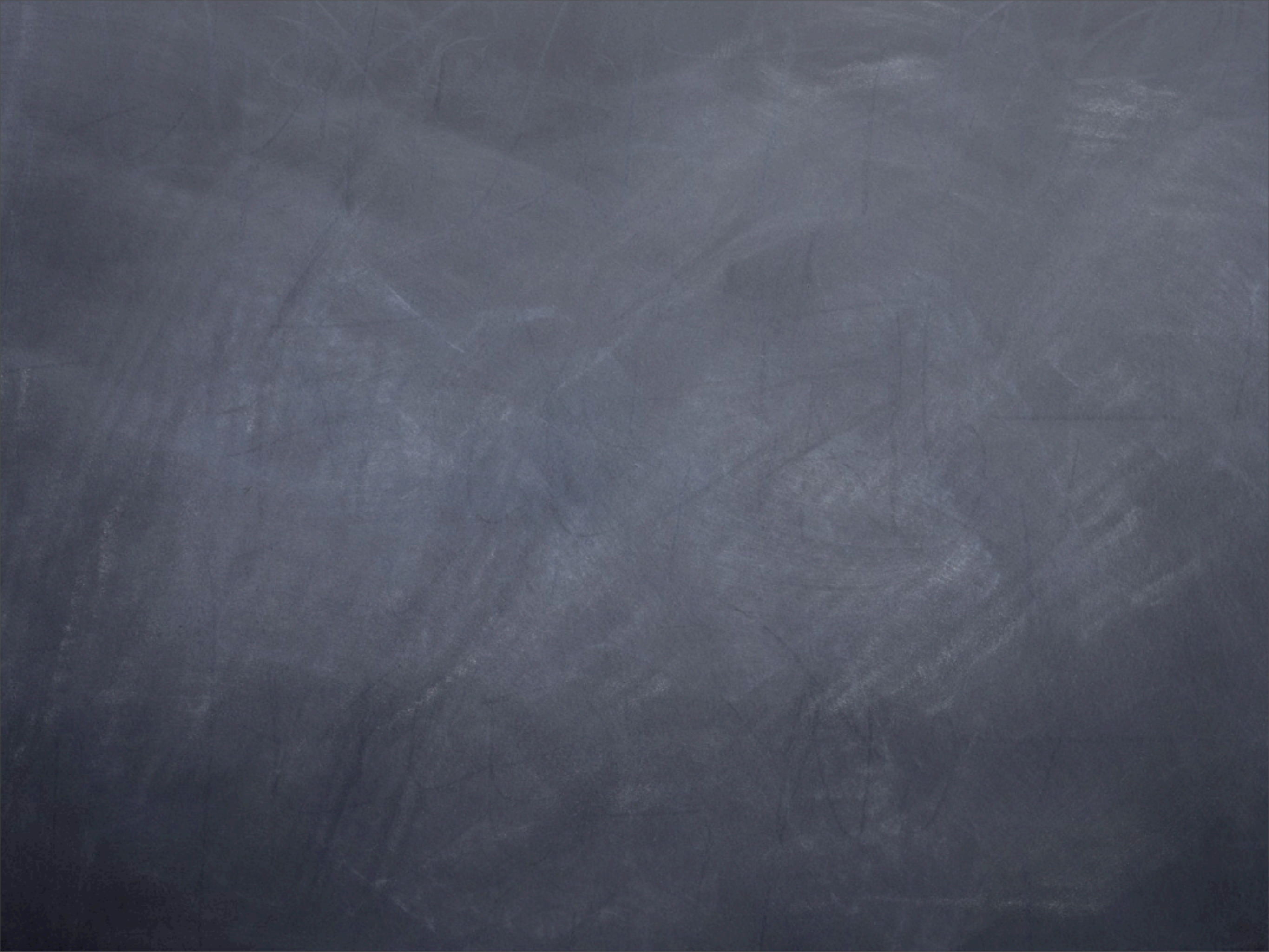
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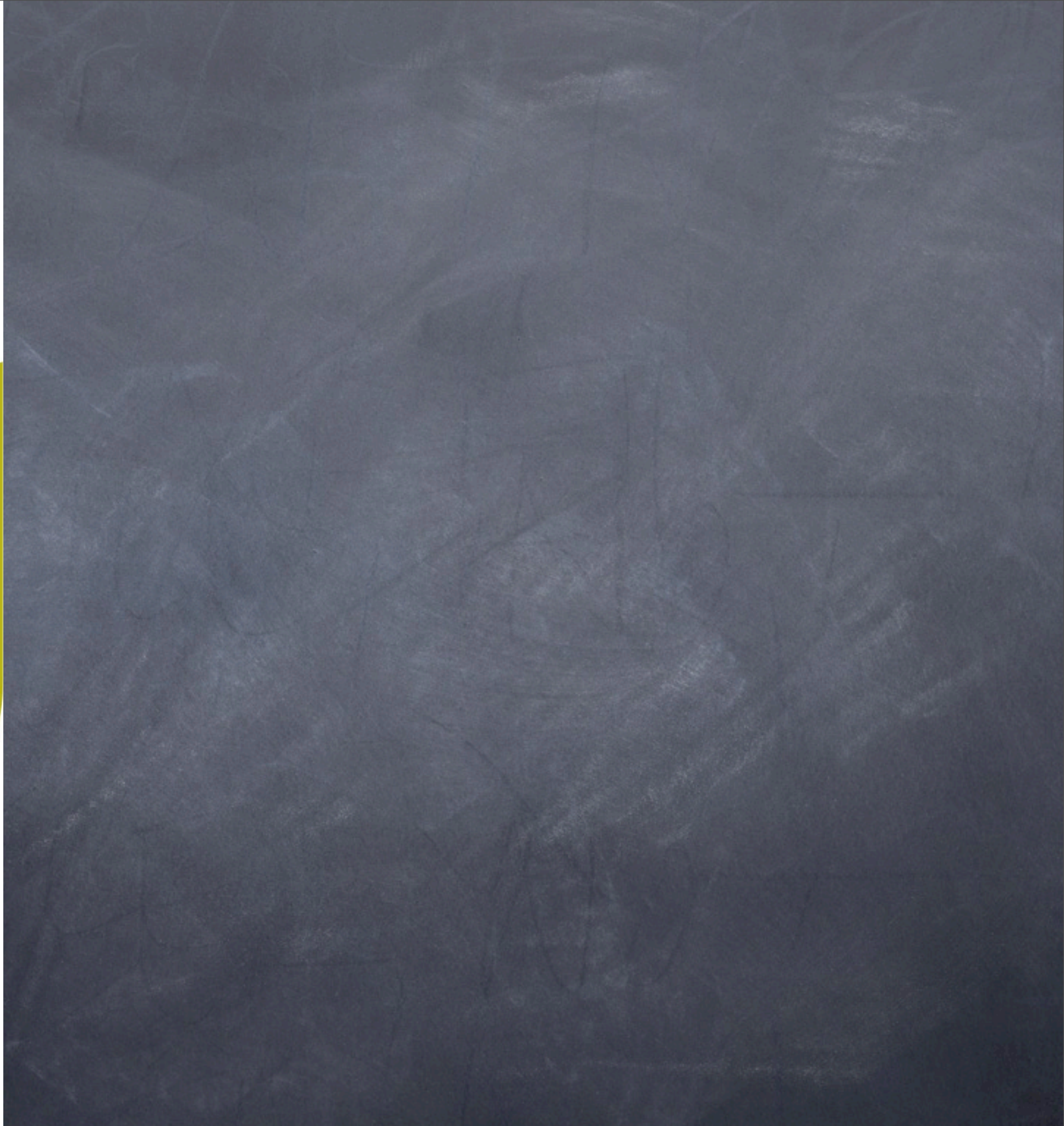
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