

Best classes...

Ron Rivest's algorithms class Greg Papadopoulous' architecture class Ned Block's philosophy class Morris Halle's phonology class Barbara Liskov's software engineering class Gerry Sussman's computer science class Walter Lewin's Physics class

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Personal
Mentor for
Every
Student







The New York Times

Science

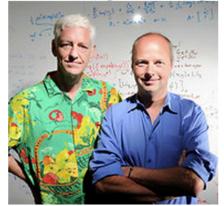
Virtual and Artificial, but 58,000 Want Course

By JOHN MARKOFF

Published: August 15, 2011

PALO ALTO, Calif. — A free online course at <u>Stanford University</u> on artificitaught this fall by two leading experts from Silicon Valley, has attracted mostudents around the globe — a class nearly four times the size of Stanford's

Enlarge This Image



Noah Berger for The New York
Times

The teachers, from left, Peter Norvig and Sebastian Thrun. The course Vancof three Xeip offered experimental Computer science department to extend technology known beyond this elite campus to the entire world, the university on Tuesday.

The online students will not get Stanford grades or cre ranked in comparison to the work of other online stud a "statement of accomplishment."

For the artificial intelligence course, students may nee

Subject: Offer online class?

From: Sebastian Thrun <thrun@ai.stanford.edu>

Date: 11/6/11 2:23 PM

To: evans@cs.virginia.edu

Hi David:

You might have heard about the online class "Introduction to Artificial Intelligence" (ai-class.org) which Peter Norvig and I are presently teaching online. After just a single Email announcing this class, 160,000 students signed up! The class is now well underway, and we have tens of thousands of students from 190 countries diligently submitting homework assignments and following the lectures. Despite the large number of students, we only use a single TA to run this Emails expressing that we are literally changing people's lives, and we are getting routinely recognized by random people on the street who are enrolled in our class. The class was also featured on the front page of the New York Times (below the fold, though).

I am more than happy to answer any question you might have.

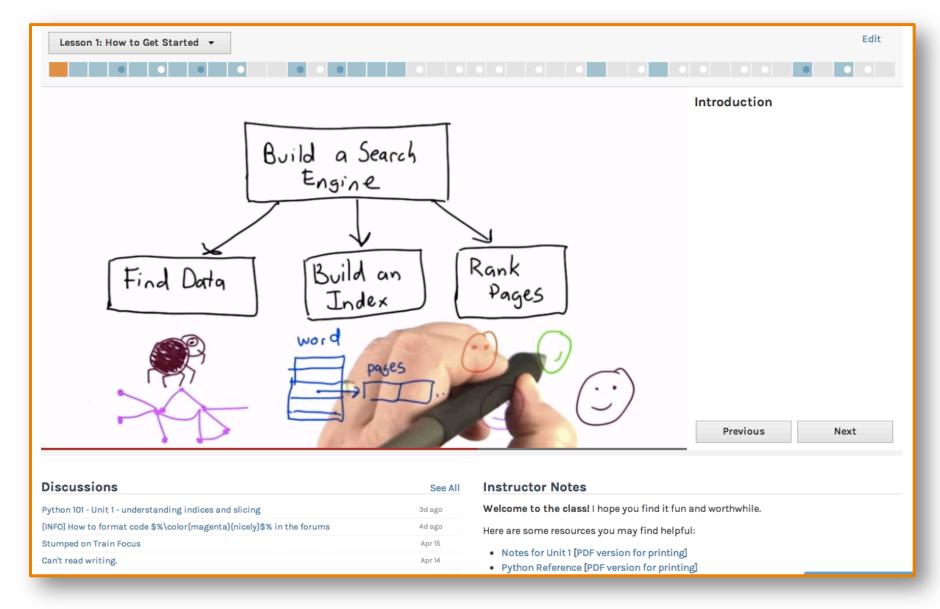
Sebastian



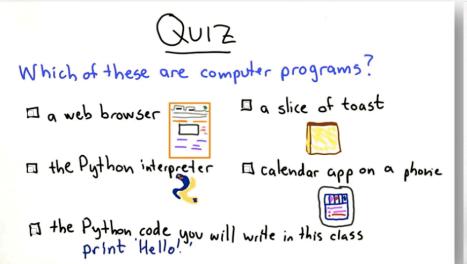
cs1120 Fall 2011 (49 students)

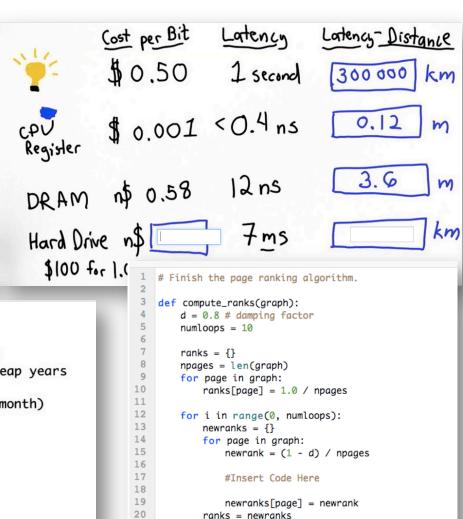


Designed from the start as an open on-line course



Rigorous, academic computer science course Using search engine as a driving application





return ranks

Test Run

21

22

242526272829

Reset

```
A write isLeapYear(year)

B write stub daysInMonth(year, month) that always returns 30

C modify daysInMonth(year, month) to be correct except for leap years

D modify daysInMonth(year, month) to account for leap years

E modify nextDay(year, month, day) to use daysInMonth(year, month)

F test isLeapYear(year)

G test daysInMonth(year, month) except for leap years

H test daysInMonth(year, month) including leap years

I test nextDay(year, month, day) using stub daysInMonth

J test daysBetweenDates(...) for simple cases

K test daysBetweenDates(...) for all test cases

What should we do to finish this problem?

e.g., ABA (AB
```

Frequent, meaningful interaction

Introduction to Computer Science

Lesson 1: Problem Set ▼

Ask a Question

* 9. Rounding Numbers

str (89) > '89'

Given a variable, x, that stores the valve of any decimal number, write Puthon code

that prints out the nearest wh

to X = 3, 14159

Discussions	See All
Alternative solution?	12m ago
I was so pleased with myself until i saw the answer lol	2d ago
Incorrect even when test run shows correct	7d ago
Alternative solution using .find (searching for 5,6,7,8,9 digits after the dot)	Apr 22
rounding numbers alternative	Apr 20
Rounding numbers 1.9. I have done this it s ok?	Mar 19
Confused!!!!!!	Mar 18
HAVE A PROBLEM WITH HOMEWORK 9 :(((Mar 16
are we looking for an int or a string as the result?	Mar 9
I knew it had to be simple	Mar 7

Rounding Numb

CLASSROOM 🔠 🕞 🔘

Homeworks, exams, certificates



CERTIFICATE OF ACCOMPLISHMENT WITH HIGHEST DISTINCTION

This is to certify that

DAVID EVANS

Has successfully completed

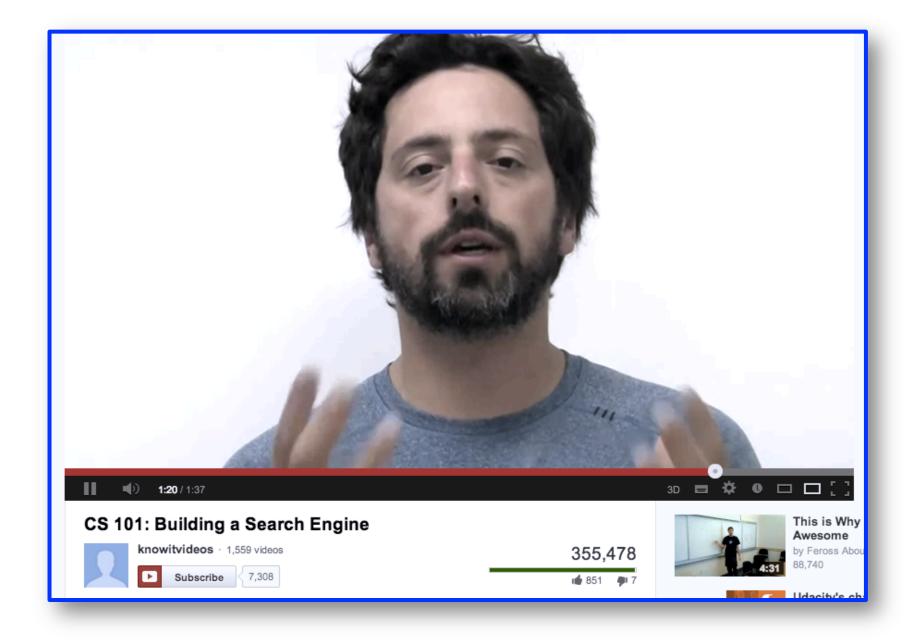
COMPUTER SCIENCE 101:

Introduction To Computer Science Building A Search Engine



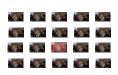
APRIL 6, 2012





Secret weapon!

cs1120 Fall 2011 (49 students)

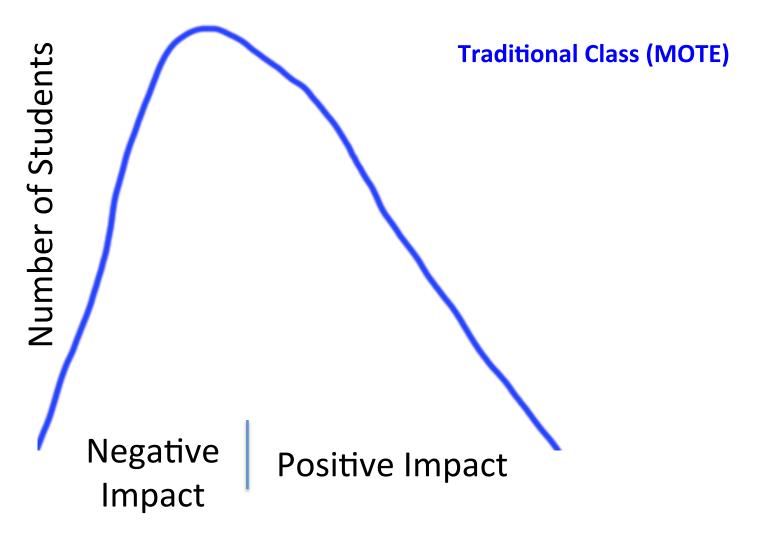


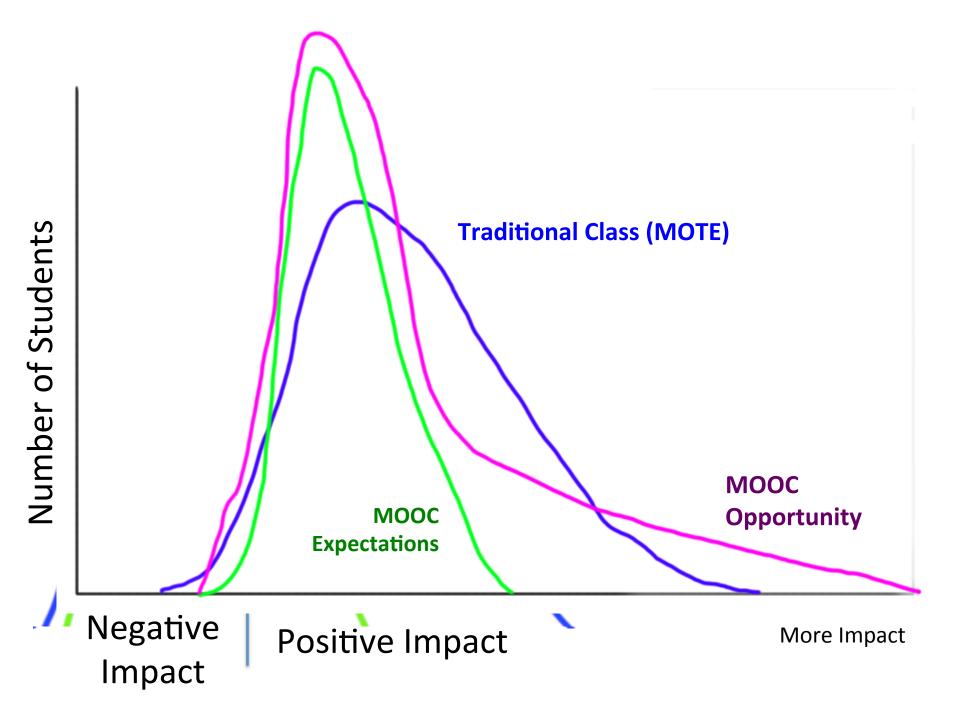
1000 students

(13 years at UVa)



Total cs101
enrollment
(through
April 2013):
299,126





Prof. Evans, I am a student in Udacity - CS101 as well as one of those brain damaged vets struggling with life we seem to read so much about these days. Instead of resorting to drunken violence and general self destruction (been there, done that...) I am learning, with your assistance to re-wire my brain. Current neuroscience research and a flexible academic curriculum have given me hope. While slow as molasses in January I am progressing and the changes in brain function are having profound effects on my day-to-day life. No words can express my thanks to you and Mr. Thrun. ...Good teaching and removing: stress, stigma and general bureaucratic bull from learning yields a truly beautiful, powerful growth experience.

Very best regards, ...

Please read the FAQ and posting guidelines before submitting!

* Just needed to tell somebody that I feel awesome! (self.learnprogramming) submitted 22 days ago by amosko

After trying different programming languages and never following through, I took most of /r/learnprogramming 's advice and picked one language (Python) and am sticking with it.

I'm taking a couple of courses to really get a good basic understanding (edx's MIT course, Udacity course and codecademy's course).

I got to the end of Udacity's first Unit and was up to the final guiz. If you don't know it, it's fine. It's probably really easy but when I got there I blanked. I looked at it, tried a couple things and said I'll do it later (I was at work and couldn't give it a lot of thought). I opened it later (still at work but everyone went home). It made a tiny bit more sense but I was still lost. When I got home I opened it up. I started getting somewhere and BOOM! It just clicked. With a little trail and error I passed! I know it's not the best way to do it but it worked. I want to go back and clean it up a little just to get into the habit of 'complex not complicated'.

I just needed to tell somebody that this gave me a major ego boost and makes me want to keep learning. Thanks for reading, carry on.

4 comments share save hide report



Scale Matters

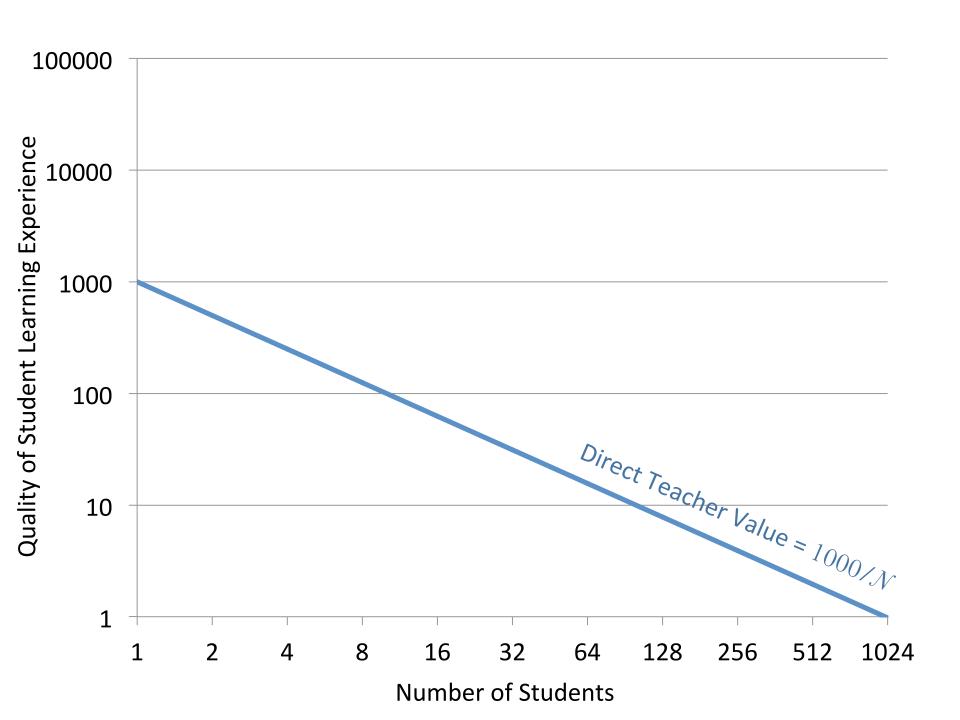


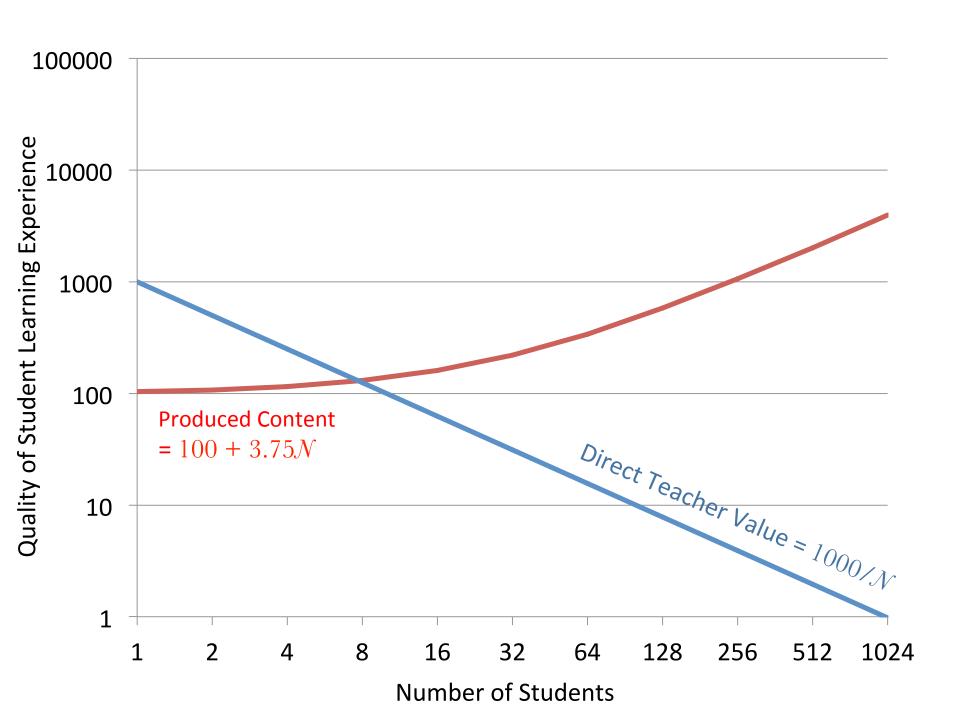
Low Cost per Student

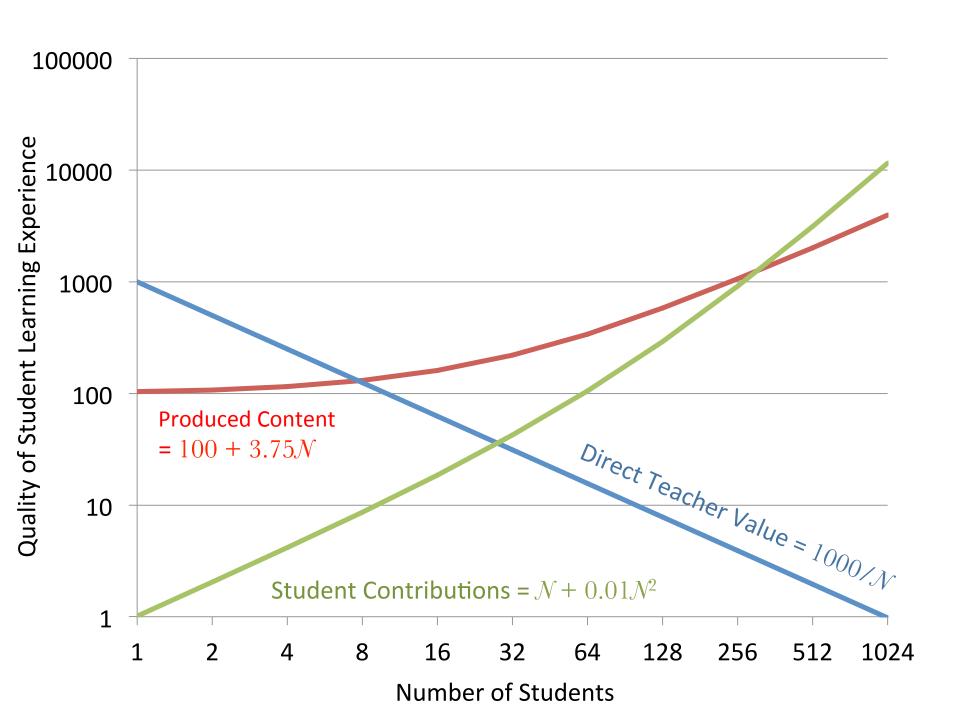
Community and **Contributions**

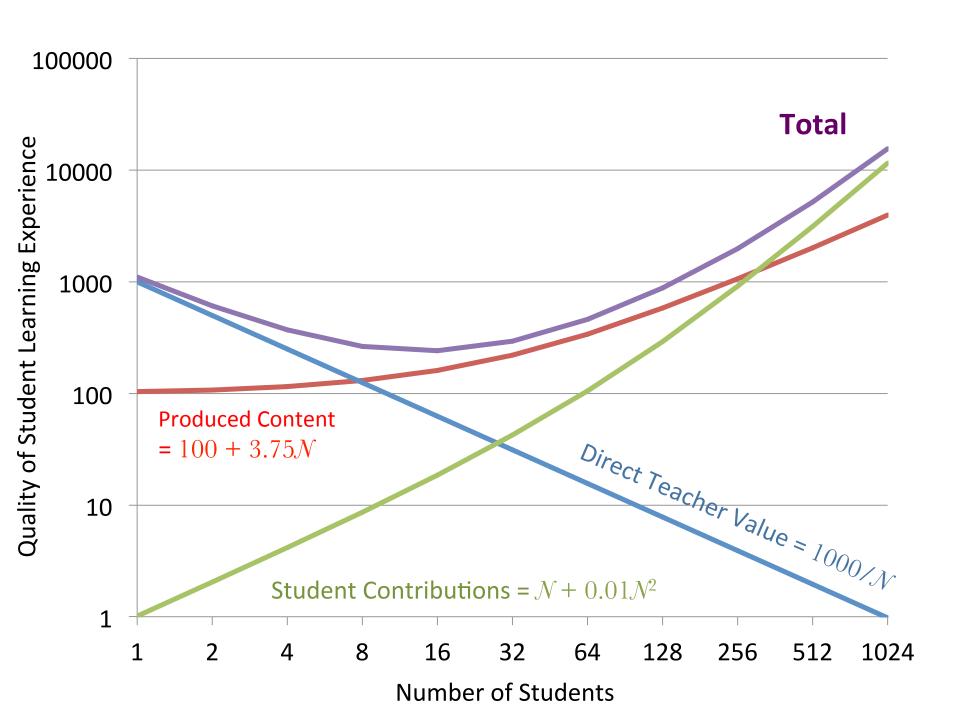


Wendy Woudstra





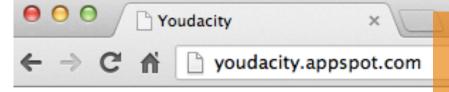




Scale and Community

http://forums.udacity.com/.../dropping-out-terrible-headache-and-i-am-not-a-machine

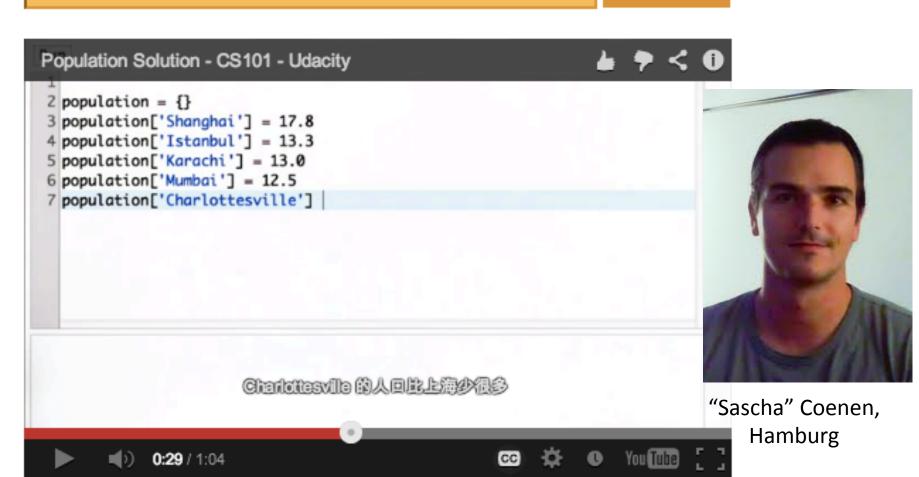


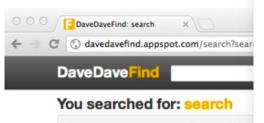


Scale and Contribution

YOUDACITY SEARCH

charlottesville





re.search(pattern, string[, flags])

Scan through string looking for a location when match, and return a corresponding MatchObject string matches the pattern; note that this is diffe some point in the string.

Read more: A Python documentation

Videos:



Python 101 - Unit 1 - understanding indices and slicing

Many people new to Python have the same reaction to indices: "this is weird". Indices, though, permeate Python.. in lists, in strings, in conditionals and are a potential source of errors until we get used them. Thus we might as well bite the bullet, get them straight and move on.

Spanish version of this post (external link) - versión en Español de este artículo (enlace externo)

First, my apologies to the experienced programers that will find some sections of this post very basic but after the initial writing there were questions like 'what does default mean?' that made me realize that many Udacians are really really new to programming and thus, I decided to add some explanations and go very slow. Ok., let's do it...

We'll use string slicing because that is the first thing that we all learn but it will serve us equally well later, in list indexing and setting ranges

Let

a = '0123456789'

where the char at the k-th position is k.

We slice a using:

b = a[start:stop:step]

or, directly:

'0123456789'[start:stop:step]

i.e, in Python, both the string and the variable object: a number, a variable, a string, a functi

[PDF] Unit 2 Notes

DaveRank: 0.01

towards building your search (Introduction to Web Browse concepts: 1. Procedures - a

[PDF] Unit 6 Notes

DaveRank: 0.01

page that matches the search to do this well. This is somet much smarter way of ranking

Home > programming > python interpreter, text editor, ide for udacity CS101

python interpreter, text editor, ide for udacity CS101

Posted on July 19, 2012 by ctb - 8 Comments |

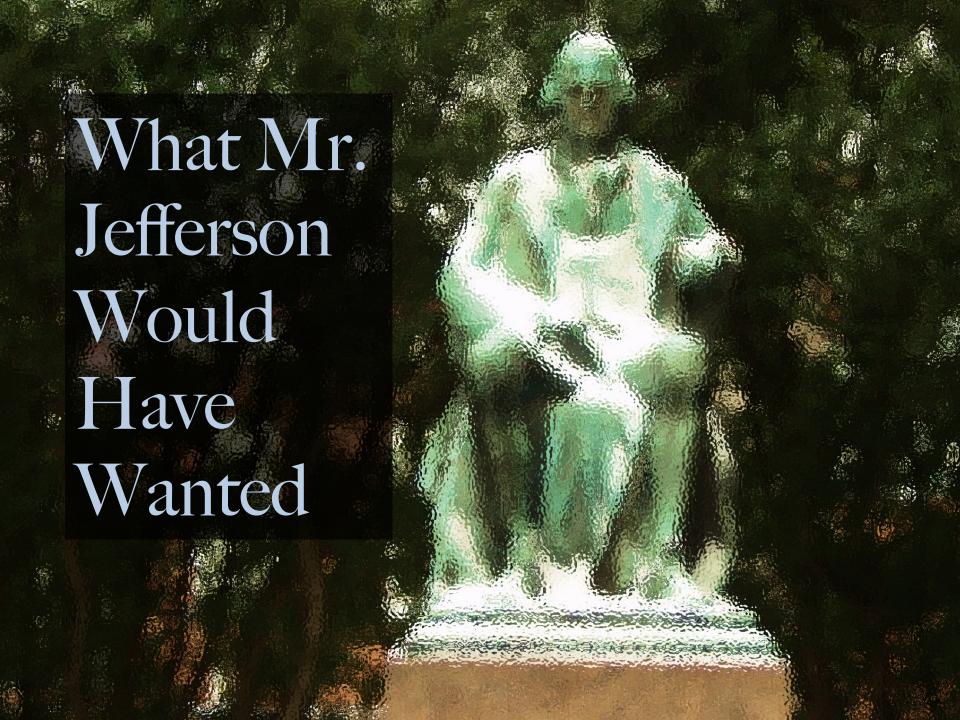
- Introduction
- Installing Python
 - Linux
 - OS X
 - Windows
- . 1. Interactive Mode
- Integrated Development Environments
 - IDLE
 - · Other IDEs
- Text Editors
 - Linux
 - OS X
 - Windows
- Conclusion

Introduction

In my spare time this summer, I've been working through CS101: Building a Search Engine on udacity. I've written critical things about the new wave of massive online courses before, in part because I've never finished one. That's not exactly a fair position from which to criticize, even if



What Should UVa Do?



A system of general instruction, which shall reach every description of our citizens, from the richest to the poorest, as it was the earliest, so will it be the latest, of all the public concerns in which I shall permit myself to take an interest. Nor am I tenacious of the form in which it shall be introduced. Be that what it may, our descendants will be as wise as we are, and will know how to amend and amend it until it shall suit their circumstances. Give it to us, then, in any shape, and receive for the inestimable boon the thanks of the young and the blessings of the old, who are past all other services but prayers for the prosperity of their country and blessings to those who promote it.

TH: JEFFERSON.

Joseph C. Cabell, Esq.

Letter from Thomas Jefferson to Joseph Cabell, 14 January 1818

14 in their 10th year, 13 and a earlier in the same letter ... r their 12th year; so that the children of these three years (which are those that ought to be devoted to the elementary schools,) will be a constant number of 40; about enough to occupy one teacher constantly. His wages of \$150, partitioned on these 40, make their teaching heads of cost \$33 a piece, annually. If we real families in a ward as there are mili 5000/12 = , the unmarried militia men balancing in \$416\(^2\)_3 \sim \$417 \tag{and} unmarried exempts,) \$150 on 67 heads equally) would be \$2 24 on each. At the same time the property tax on the ward being \$5,000-12, or \$416, and that again subdivided on 67 heads of families (if it were levied equally) would be \$6 20 on a family of middling circumstances, the tax which it now pays to the State. So that to \$6 20, the present State tax, the school tax would add \$2 24,

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Brown University

California Institute of Technology

California Institute of the Arts NEW

Case Western Reserve University NEW

Columbia University NEW

Curtis Institute of Music NEW

Duke University

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École Folyte haique Fédérale de Lausan.

Emory University

Georgia institute of Technology

Hebrew University of Jerusalem

IE Bus ness School NEW

Icahn School of Medicine at Meur Chi

Johns Hopkins University

Ludwig-Maximilians-Universität Münch

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National University of Singapa e NE /

Northwestern University NEV

Pennsylvania State University NEW

Princeton University

Rice University

Rutgers University NEW

Sapienza University of Rome NEW

Stanford University

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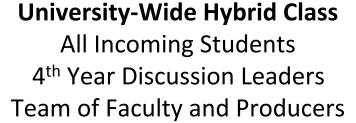
	Cost
Academic Division (2011-2012)	\$1,360,000,000
Undergraduate Tuition Paid	\$232,000,000
Access UVa (2011-2012)	\$92,000,000
Rice Hall	\$65,000,000
Buyout cost to fire assistant	\$1,360,000
football coaches last year	
UVa Coursera Courses	\$150,000



(Modest/Uvacious) Proposal









in Virginia should take
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and Credit

Support for infrastructure and teachers



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1M+ graduates/year
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Reputation

