

Welcome to Internet History, Technology, and Security

Dr. Charles Severance <csev@umich.edu>
<http://www.dr-chuck.com/>
Twitter: @drchuck



<https://www.coursera.org/course/insidetheinternet>



Who Should Take This Course?

- Everyone (including your friends and family) !
- There is no math. There is no computer programming. Really.
- We talk about cool technical things but it is not a technical course.
- The purpose of this course is to explain things and make you think and reflect

What is the Course About?

- Oral history from Internet and Web innovators
 - Not just names and dates - real history is a bit messy
 - You will need to interpret and think critically
- How the Internet and Web function

Dr. Chuck...

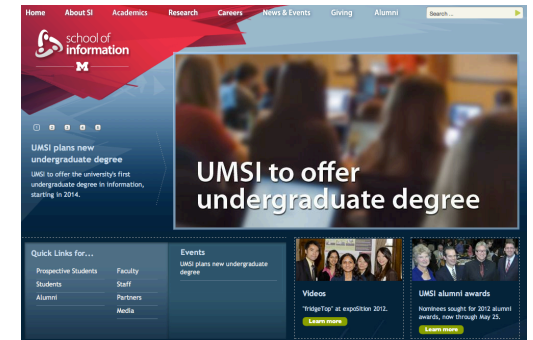


North Quad
University of Michigan
Ann Arbor, MI, USA

2455 North Quad



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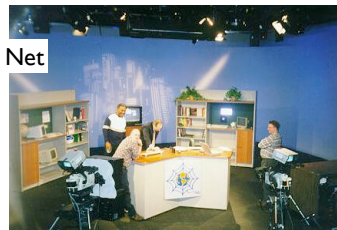
www.si.umich.edu



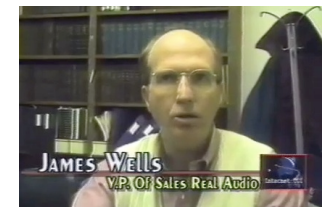
Internet: TCI



Nuthin' But Net



1995 - Internet: TCI
Charles Severance / Richard Wiggins
<https://vimeo.com/4275919>

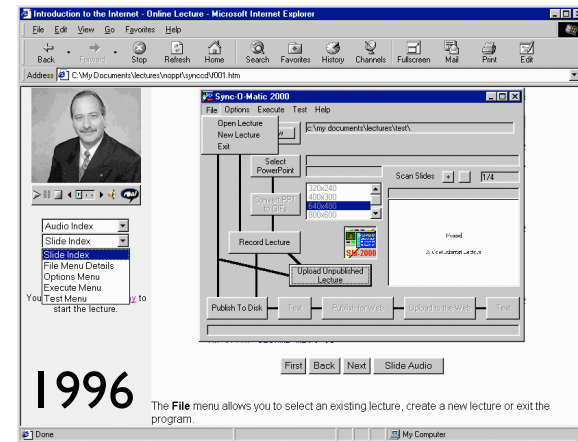
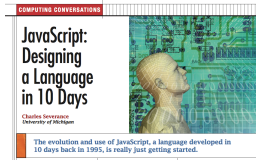


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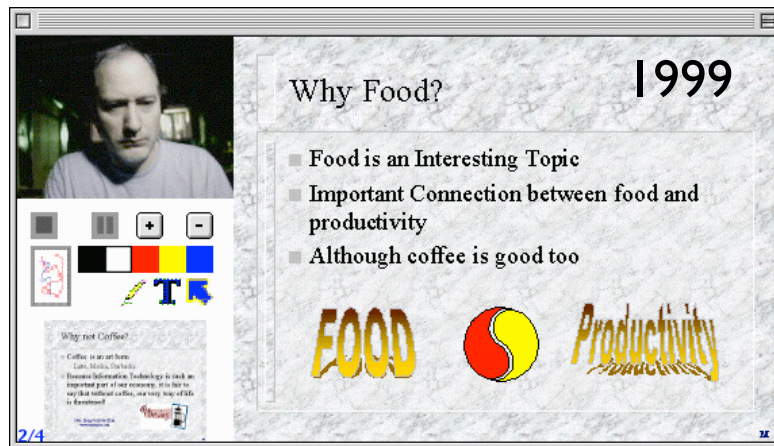
IEEE Computer Magazine

- I write a monthly column for IEEE Computer magazine called "Computing Conversations"
- There is a video interview for each article
- IEEE Computer Society has given permission to use the articles for free in this course
- www.computer.org (Thanks!)

<http://www.computer.org/portal/web/computingnow/computing-conversations>



<http://www.syncomat.com/>

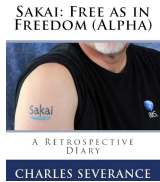


<http://www-personal.umich.edu/~csev/csev/projects/cb2k/index.htm>



Fifteen years later...

Dr. Chuck
Twitter: @drchuck
www.dr-chuck.com



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“... the iPad Steering Wheel Mount is the “must-have” iPad accessory for anyone who spends significant time behind the wheel of an automobile. -- Stanley Milgram

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coursera

Courses Universities About Charles Seve...



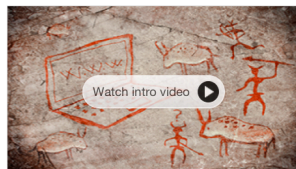
Internet History, Technology, and Security

Charles Severance

What is the Internet? How was it created? How does it work?

Workload: 3-5 hours/week

1,139 1.5k 6.2k
Tweet +1 Like



About the Course

The impact of technology and networks on our lives, culture, and society continues to increase. The very fact that you can take this course from anywhere in the world requires a technological infrastructure that was designed, engineered, and built over the past sixty years. To function in an information-centric world, we need to understand the workings of network technology. This course will open up the Internet and show you how it was created, who created it and how it works. Along the way we will meet many of the innovative who developed the Internet and Web technologies that we use today.

About the Instructor



Charles Severance
University of Michigan

Course Overview

About this Material

- This is part of a course at the University of Michigan School of Information
- SI502: Networked Computing: Storage, Communication, and Processing
- www.pythonlearn.com - Lectures slides, audio, open book
- Internet History, Technology, and Security is taught between chapters 11 and 12

Goal: Be an Introductory Course

- We need low-stakes "pre-requisite" courses in Coursera
 - How to behave
 - How to use the software
 - How to write
 - Learn to use MOOC software
 - How to learn from others and help others learn....

Be an Open Learning Community

- Open Source works well when there is a "Benevolent Dictator"
- There needs to be real and enforced rules - but as few as possible
- Those in power must not hide behind their power and must share their power with those who show the right behavior
- Must make valued behaviors "infectious" / "amplified"



Lectures

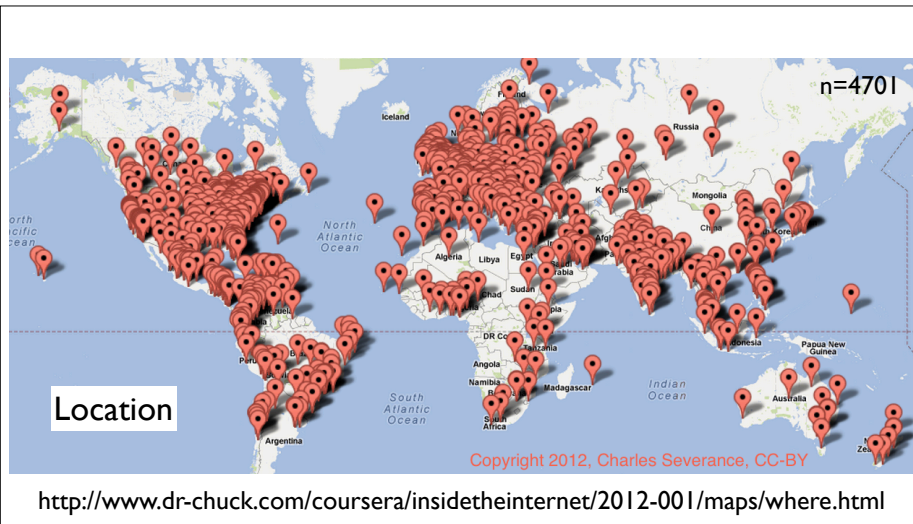
- Lecture Notes - PDF / Print / PowerPoint
- My slides are CC-BY so you can use them in your own teaching
- Most of the videos are up on YouTube
- Some videos have IEEE Articles with them - these remain Copyright IEEE

Schedule Notes

- See the Syllabus for the course duration and topic outline
- I am expecting you to invest a minimum of 3-4 focused hours per week to watch lectures, think and reflect, and take assessments
- I want to make it so that folks can still join during the first two weeks and earn a certificate but
- At some point I will shut down new enrollment (archives are open)

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Final Exam	Sub-forum	Latest Activity
Peer Assessments	General Discussion General discussion about the course, life and everything under the sun.	N/A
Video Lectures	Lectures Questions / Comments / Discussion around the lectures and video materials	N/A
Resources Wiki (Editable)	Discussing Peer Assignments and Other Writing This is a place to publish writing that either is a particularly good peer-graded answer or even additional mini-essays that expand on the material in the course.	N/A
Discussion Forums	Additional Resources If you find materials that help to support the lectures please share them here	N/A
Instructor Page	Assignments Specific questions regarding the assignments.	N/A
Help with Subtitles	Study Groups Find friends and arrange meet ups!	N/A
Course Wiki 	Instructional Staff Questions Vote up important questions. We will try to get these as time permits.	N/A
Join a Meetup 	Platform Feedback Please use this to post technical problems with the content or software	N/A
 Instructor Support  I18N Editor		



New York NY, Los Angeles, Ann Arbor MI, Wilmington, NC, Chicago, Washington, DC, Memphis, TN, Seattle WA, Seoul, Barcelona, London, Amsterdam
Manila

<http://www.youtube.com/watch?v=R6zlQZcM72o>

Assessments

- The in-video questions do not count
- One quiz per week - mostly multiple-choice style questions that randomize and you can retake and keep the highest score (10 points)
- Final exam
- Peer graded writing assignments (10 points each) - Extra Credit

Peer Grading

- All peer-graded material is extra credit for the course - you do not have to participate in the peer graded assignments to earn a certificate
- Your peers **will** determine your grade on the assignments - no appeals
- Write your submissions with this in mind....

Course Scoring

- A course percentage above 75% will earn a certificate
- If you really want a certificate don't do the minimum to get to 75%
- There will be no individual arrangements / regrades / point appeals

$$\frac{\text{total_assn} + \text{exam} + \text{total_extra}}{\text{total_assn} + \text{exam}}$$

$$\frac{(7 * 10) + 30 + (3 * 10)}{(7 * 10) + 30}$$

Certificates

- See the syllabus for the details
- I don't like two levels of certificate because performance is too often correlated with skill level prior to course entry.



<http://www.dr-chuck.com/csev-blog/2012/09/coursera-scores-and-certificates-with-distinction/>

Getting and Giving Help

- The answer to most questions like this will be "use the forums"
- With thousands of students in a class - other students will be the best source of answers (21 minute average response time in one course)
- Feel free to ask each other questions about the quizzes and the questions on the quizzes - the purpose of quizzes is to *learn* not to judge you

Plagiarism

- Plagiarism is about using material copied and pasted from sources without attribution and representing it as your own
- In this course it typically comes up on the peer-graded assignments
- Peer graders will take points off as follows (10 point assignment)
 - A portion of the answer was text from another source without attribution (-5)
 - The entire essay was taken from another source (-10)

Honor Code

- The final exam is to be taken according to the Honor Code:
 - "You are agreeing to take this examination on your own, without asking anyone for help. You will not discuss the questions or your answers on this examination with anyone other than the course instructor or grader."
- I will try to be clear when I am applying the honor code in each assessment
- For quizzes, you should take the quiz without help, but you can discuss the questions in the forum.

Contacting Dr. Chuck

- It is not practical for me to interact individually with a class with thousands of students
- I and others will be monitoring the forums - if there is a problem and lots of students hit the same problem it will bubble up in the forums and get attention
- You can follow me on twitter @drchuck
- I may do Google Hangouts or mini-lectures if something pops up

Bring Your Friends!



- Watch the first week's lecture and if you like it - get your friends to join - the more the merrier and forming a study group will be easier!
- The first video from Bletchley Park is longer than most (25 minutes) - the rest will be shorter
- They should be able to earn a certificate (if that is what they are going for) adding during the first two weeks



Please Help!

- Doing this is very cool but still evolving
- This is social - you are an important part of the learning
- It is as much about learning how to work together to learn at scale as it is about "History, Technology, and Security"
- Help each other learn the material and make suggestions for improvement

PythonLearn

[Book](#) [Install](#) [Free Course](#) [Instructor](#) [Python](#) [About](#)

The goal of this site is to provide a set of materials in support of my [Python for Informatics: Exploring Information](#) book to allow you to learn Python on your own. This page serves as an outline of the materials to support the textbook.

You can download the exercises, audio, and video lectures to your local computer so you can play them locally. This can be done with either a Right-Click or a Control-Click in most browsers.

- Welcome Lecture - ([YouTube](#), [Download MP4](#))
- Get your copy of the [Python for Informatics: Exploring Information](#).
- Install the appropriate version of Python and a text editor for your system following [these instructions](#).
- Chapter 1 - Why program? [Video Lecture](#), [Slides](#), [Printable Slides](#), [PowerPoint](#), [Lecture Audio](#))
- Play with the [Auto-grader](#) and write a "hello world" program.
- Chapter 2 - Variables, expressions, and statements ([Slides](#), [Printable Slides](#), [PowerPoint](#), [Streaming Video](#), [Download Video](#), [Lecture Audio](#))
 - Worked Exercise Screencasts: [2.2](#), [2.3](#) (suggest download)

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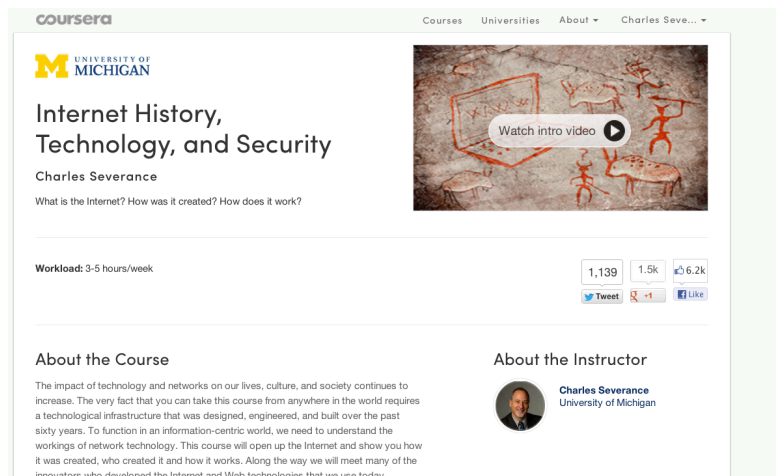
www.pythonlearn.com

Copyright Thanks

- Thanks to IEEE Computer for permission to use IEEE Computer magazine articles associated with the videos
- Thanks to Richard Wiggins for the use of his video material
- Thanks to Dave Malicke and Open Michigan (open.umich.edu) for help with copyright review of these materials

Open Content

- My slides and my lecture videos (feel free to download and retain) are Creative Commons Attribution
- I encourage and am honored if you would reuse / remix in any way you like



The screenshot shows a Coursera course page. At the top, the Coursera logo is on the left, and navigation links for 'Courses', 'Universities', 'About', and 'Charles Seve...' are on the right. The main header features the University of Michigan logo and the course title 'Internet History, Technology, and Security' by Charles Severance. Below the title is a video player with a 'Watch intro video' button. The workload is listed as '3-5 hours/week'. Social media sharing buttons for Twitter, Facebook, and LinkedIn are visible. The 'About the Course' section describes the impact of technology and networks. The 'About the Instructor' section includes a photo of Charles Severance and his affiliation with the University of Michigan.

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