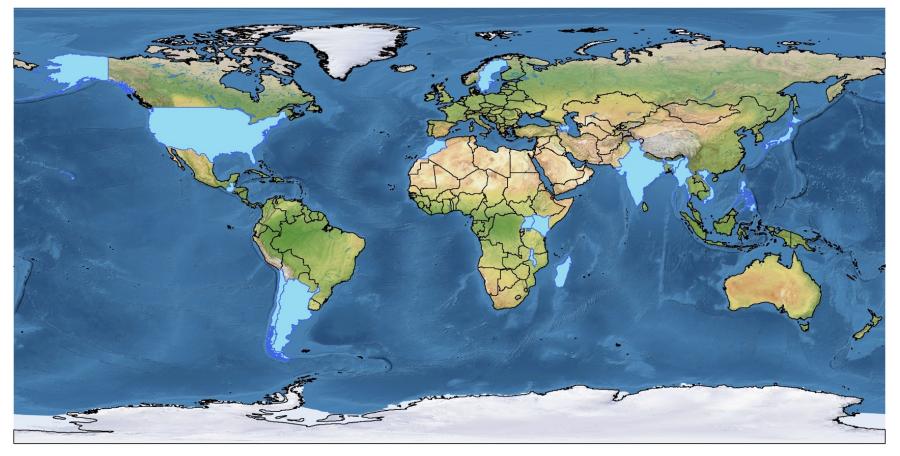
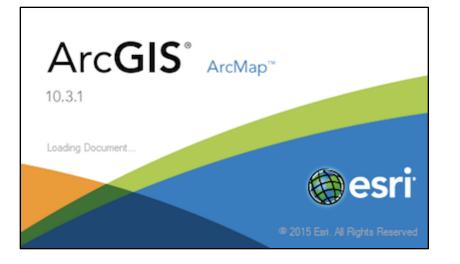
Online Geospatial Education in Africa through the OpenEdX Platform: Possibilities and Limitations

Dr. Thomas J. Ballatore Lake Basin Action Network (LBAN), Shiga, Japan **Dr. Lydia Olaka** University of Nairobi, Nairobi, Kenya

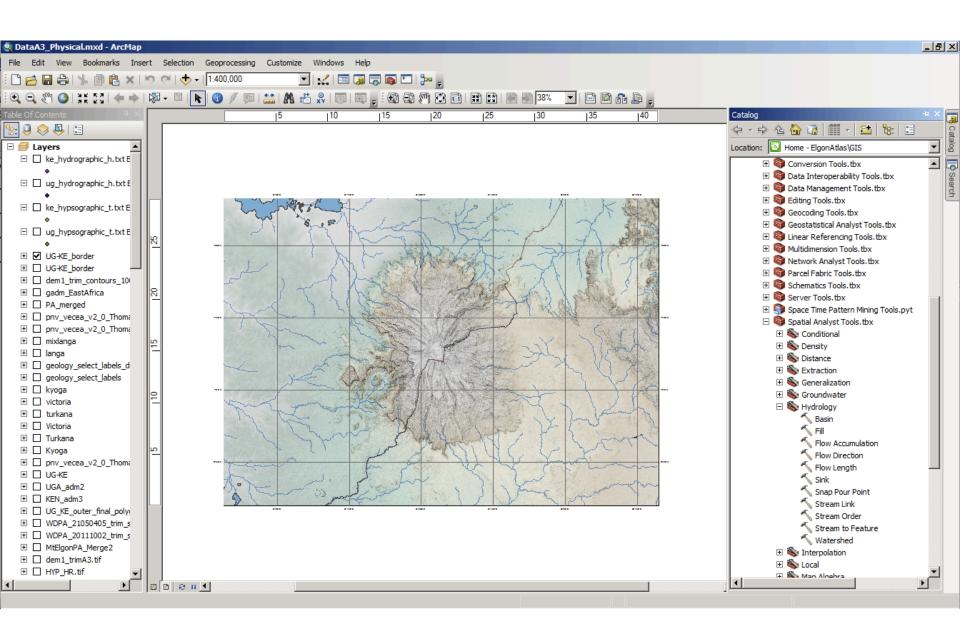


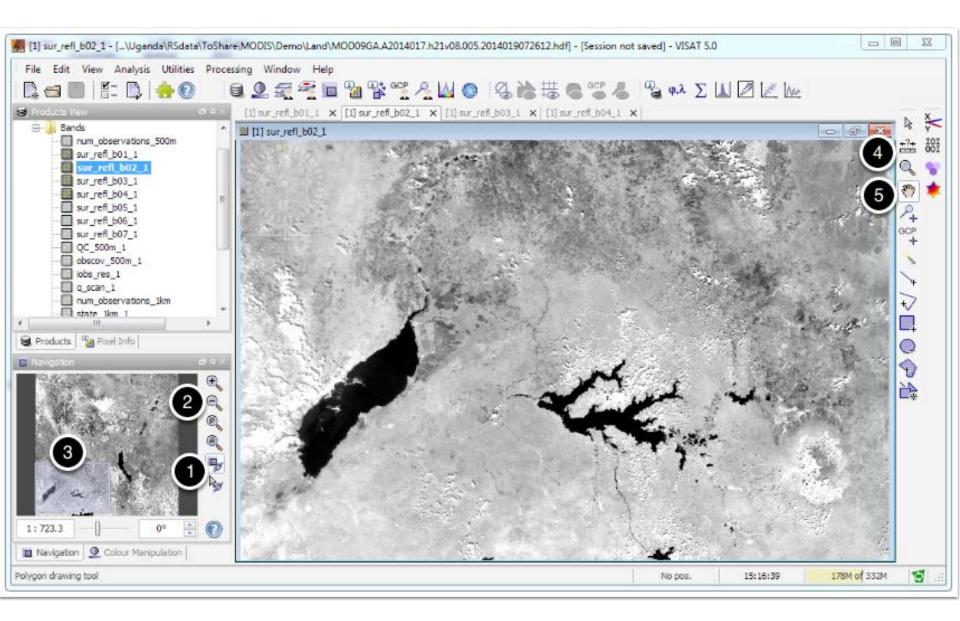


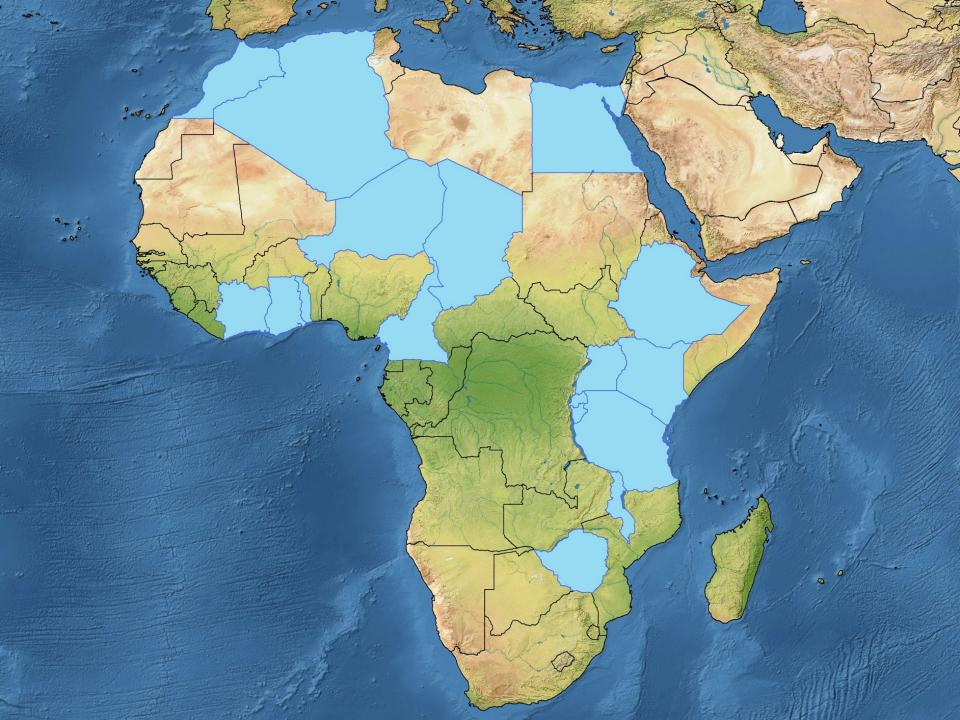
















The problem...

1. Reach more people



The Department of State warns U.S. citizens of the risks of traveling to Sudan. We urge U.S. citizens to avoid all travel to the Darfur region of Sudan, and to Blue Nile and Southern Kordofan states, and advise U.S. citizens to consider carefully the risks of travel in other areas of Sudan. This supersedes the Travel Warning issued on October 30, 2014.



The U.S. Department of State continues to warn U.S. citizens of the risks of travel to Eritrea. The Government of Eritrea continues



The U.S. Department of State continues to warn U.S. citizens to avoid all travel to Somalia. This replaces the Travel Warning dated October 24, 2014, to update information on security concerns.



LAST UPDATED: JULY 1, 2015

The U.S. Department of State warns U.S. citizens against travel to the Republic of South Sudan. The U.S. Embassy in Juba continues



The U.S. Department of State warns U.S. citizens against all travel to Burundi and recommends that U.S. citizens currently in Burundi depart as soon as it is feasible to do so. As a result of

The problem...

1. Reach more people

2. Replicate our collaborative in-person learning experience in a digital program

Our model class...



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Introduction to Computer Science and Programming Using Python

6.00.1x is an introduction to computer science as a tool to solve real-world analytical problems.





Enroll Now

I would like to receive email from MIT and learn about its other programs.

About this course

This course is the first of a two-course sequence: Introduction to Computer Science and Programming Using Python, and Introduction to Computational Thinking and Data Science. Together, they are designed to help people with no prior exposure to computer science or programming learn to think computationally and write programs to tackle useful problems. Some of the people taking the two courses will use them as a

See more

What you'll learn

- A Notion of computation
- The Python programming language
- Some simple algorithms
- Testing and debugging

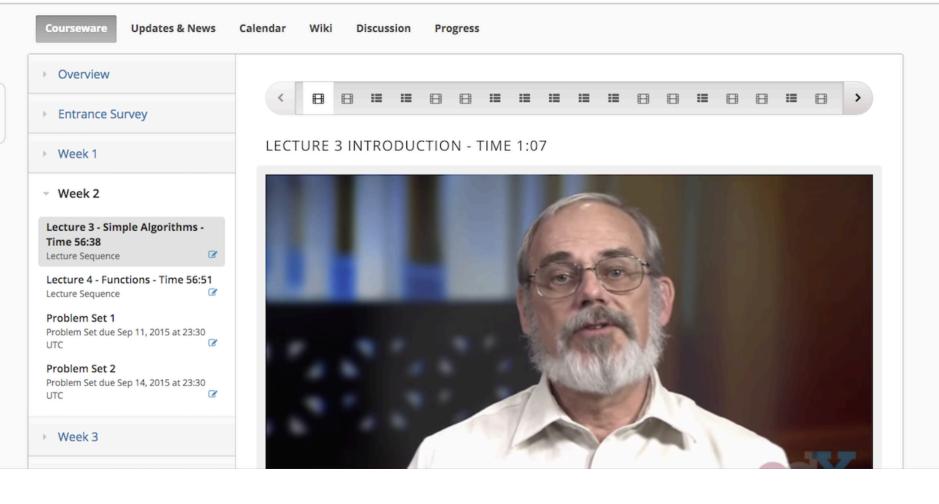
0	Length:	9 weeks
	Effort:	15 hours/week
٠	Price:	FREE Verified Certificate option closed
盦	Institution:	MITx
P	Subject:	Computer Science
*	Level:	Introductory
Q	Languages:	English
	Video Transcripts:	English



Help

MITx: 6.00.1x Introduction to Computer Science and Programming Using Python

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Courseware Updates & News	Calendar Wiki Discussion Progress				
> Overview					
Entrance Survey	<				
• Week 1	L3 PROBLEM 1 (5 points possible)				
• Week 2	ESTIMATED TIME TO COMPLETE: 8 minutes Below are some short Python programs. For each program, answer the associated question.				
Lecture 3 - Simple Algorithms - Time 56:38 Lecture Sequence	Simple Algorithms - Try to answer the questions without running the code. Check your answers, then run the code for the ones				
Lecture 4 - Functions - Time 56:51 Lecture Sequence	This question is going to ask you what some simple loops print out. If you're asked what code like this prints:				
Problem Set 1 Problem Set due Sep 11, 2015 at 23:30 UTC Problem Set 2 Problem Set due Sep 14, 2015 at 23:30 UTC VTC	<pre>num = 5 if num > 2: print num num -= 1 print num</pre>				
Week 3	write what it prints out, separating what appears on a new line by a comma and a space. So the answer for the above code would be:				

Survey of 14 countries

2.000

Factors affecting the use of OpenEdX in Africa for Geospatial Education

- 1. Internet
 - Slow speeds, frequent service interruptions

		RL -		
OOKLA' SPEED	10/12/2015 12:05 AM GMT			
DOWNLOAD	UPLOAD	PING		
2.86 Mb/s	0.34 мы/s	627 ms		
GRADE: C- (SLOWER THAN 60% OF UG)				

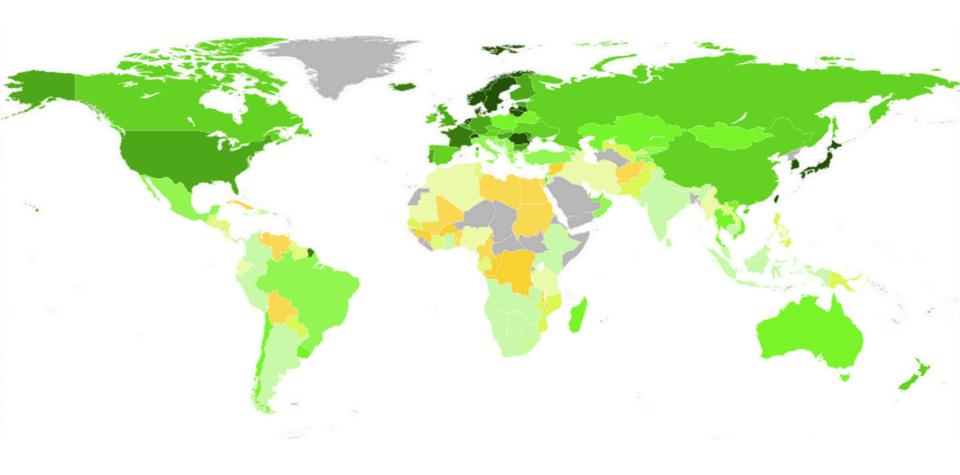
. Pie

ISP: NETSTACK-AS ***** SERVER: GOMA (~ 200 mi)

2.000

A A A

- 0°



Source: Wikipedia; Oolka SpeedTest

Factors affecting the use of OpenEdX in Africa for Geospatial Education

- 1. Internet
 - Slow speeds, frequent service interruptions
- 2. Power
 - Frequent power cuts
- 3. Hardware
 - Older machines, insufficient RAM
- 4. Computer Skills
 - Lack of "fluency" with computers

Factors affecting the use of OpenEdX in Africa for Geospatial Education

- 5. Credentialing
 - Certificates are really important
- 6. Language/Culture
 - Working with different languages; semiliterate stakeholders
- 7. Pedagogy
 - Videos, multiple choice, problem sets
 and evaluation of geospatial outputs

