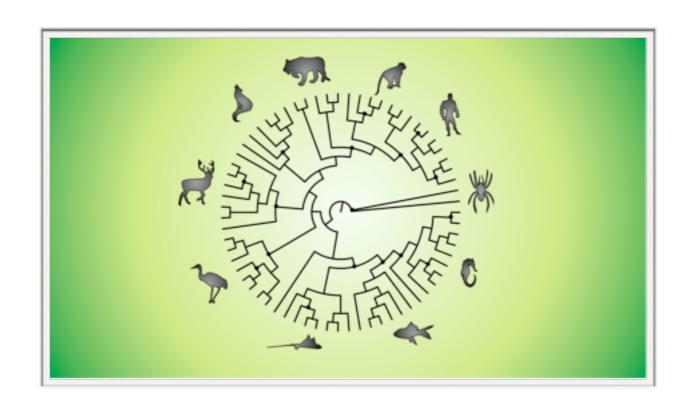




Massive Open Online Courses

Branding, læring, eller ...?



Hanne Jarmer

Lektor og Uddannelsesleder på DTU Systembiologi

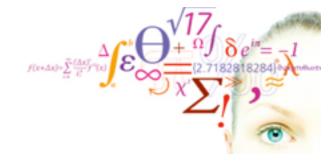




Ave	erage Retenti	on Rates
	5%	Lecture
	10%	Reading
Passive Teaching Methods	20%	Audio-Visual
	30%	Demonstration
Participatory	50%	Group Discussion
Teaching Methods	75%	Practice
	90%	Teaching Others

^{*}Adapted from National Training Laboratories. Bethel, Maine



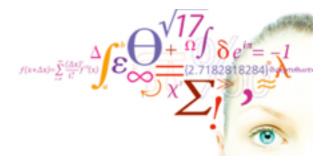


The Learning Pyramid

age Retention	on Rates
5%	Lecture
10%	Reading
20%	Audio-Visual
30%	Demonstration
50%	Group Discussion
75%	Practice
90%	Teaching Others
	5% 10% 20% 30% 50% 75%

^{*}Adapted from National Training Laboratories. Bethel, Maine





TED talk by Daphne Koller

Professor at Stanford









- Den bedste undervisning
- Af de bedste undervisere
- Fra de bedste universiteter

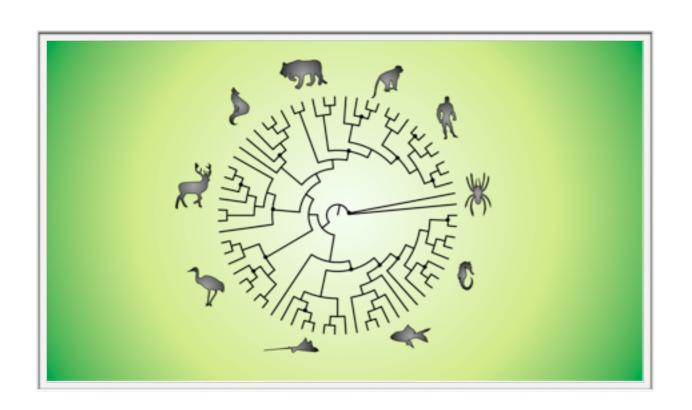
GRATIS til alle!

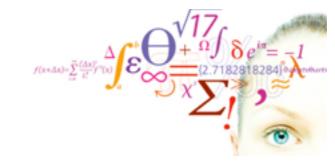
- Eminent branding
- Uvurderlig feedback til underviserne
- Pædagogiske fordele



Andrew Ng





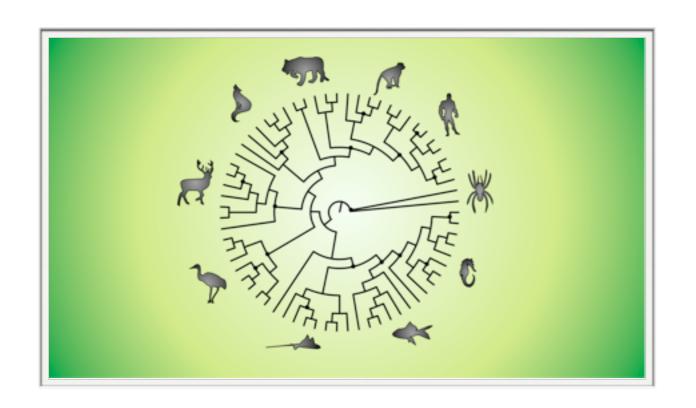


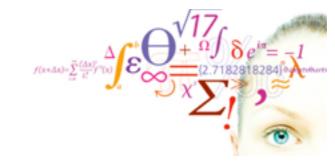
- Videoer
- In-video quizzer



Anders Gorm Pedersen







- Videoer
- In-video quizzer

- Ugentlige quizzer
- Ugentlige øvelser
- Instant Feedback
- Peer-assessment
- Diskussionsforum



Anders Gorm Pedersen







Computational Molecular Evolution

In this course you will learn about how and why DNA and protein sequences evolve. You will learn the theory behind methods for building and analyzing phylogenetic trees, and get hands-on experience with some widely used software packages.

Et lille kursus ...







Computational Molecular Evolution

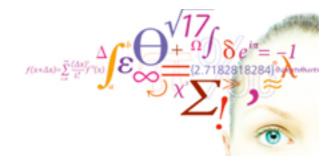
In this course you will learn about how and why DNA and protein sequences evolve. You will learn the theory behind methods for building and analyzing phylogenetic trees, and get hands-on experience with some widely used software packages.

Et lille kursus ...

1. gang: ~15.000 studerende







Computational Molecular Evolution

In this course you will learn about how and why DNA and protein sequences evolve. You will learn the theory behind methods for building and analyzing phylogenetic trees, and get hands-on experience with some widely used software packages.

Et lille kursus ...

1. gang: ~15.000 studerende

2. gang: ~5.000 studerende



coursera

Computational Molecular Evolution

by Anders Gorm Pedersen

Join Signature Track 6 days and 9 hours left

Help



Announcements

Resources: Start Here

Video Lectures

Weekly Quizzes

Course Overview

Discussion Forums

Surveys

Course Wiki

Join a Meetup @

Course Overview

The main goal of this course is to give an introduction to theory and algorithms in the field of computational molecular evolution. We will cover basic evolutionary theory (common descent, natural selection, genetic drift, models of growth and selection), and the main types of algorithms used for constructing and analyzing phylogenetic trees (parsimony, distance based methods, maximum likelihood methods, and Bayesian inference). We will also discuss the role of

Syllabus

Week 1: Introduction to evolutionary theory and population genetics: models of growth, selection and mutation

Week 2: Neutral mutations and genetic drift. Tree reconstruction by parsimony

Week 3: Consensus trees. Distance matrix methods

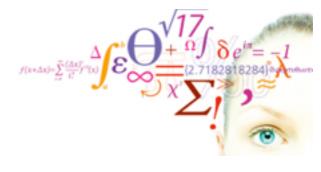
statistical modeling in science more generally.

Week 4: Models of sequence evolution. Likelihood methods

Week 5: Bayesian inference of phylogeny

Week 6: Testing hypotheses in a phylogenetic context

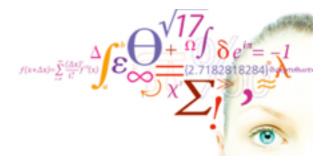




Pre-Course Survey



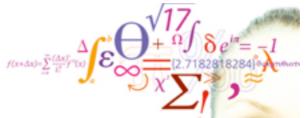


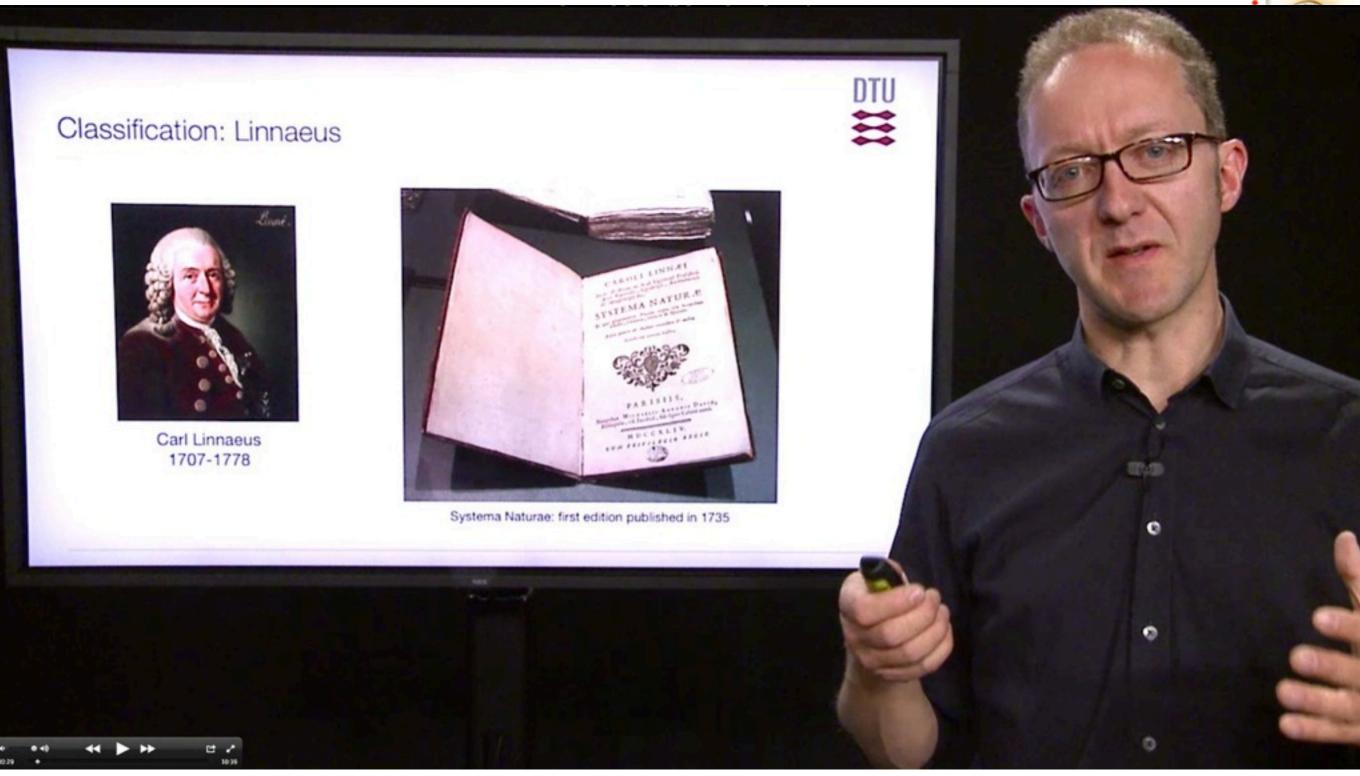


Og så gik vi i gang!



Lectures







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Do it Yourself

Course Wiki

Join a Meetup

Help Articles

- Flagged Content
- Course Materials Errors
- Technical Issues
- Instructor Help Articles

Week 3

Quiz 1: Consensus Trees (manual)

Help

Attempt Quiz

Due Date

Thu 25 Jul 2013 11:59 PM CEST

If you submit after the due date (but before the hard deadline), your submission score will be penalized by 5% for each day after the due date.

uay after tr

Hard Deadline

Sat 31 Aug 2013 11:59 PM CEST

If you submit any time after the hard deadline, you will not receive credit.

Effective Score

N/A

0/10

Each time that you attempt it, we'll record a score based on your performance and any penalties due to late submissions. Your effective score will be the highest score of all the allowed attempts made before the hard deadline.

of Attempts

Quiz 2: Consensus Trees (computer)

Help

Attempt Quiz

Due Date

Thu 25 Jul 2013 11:59 PM CEST

If you submit after the due date (but before the hard deadline), your submission score will be penalized by 5% for each day after the due date.

Hard Deadline

Sat 31 Aug 2013 11:59 PM CEST

If you submit any time after the hard deadline, you will not receive credit.

Effective Score

N/A

Each time that you attempt it, we'll record a score based on your performance and any penalties due to late submissions. Your effective score will be the highest score of all the allowed attempts made before the hard deadline.

of Attempts

0/100

Arnaud Desombre - 7 months ago %

Once more, John Taylor saves the day!

Thank you John, the 3rd box was not ticked, and now that it is everything works like a charm.

The issue is now closed for me.

(I have also installed Chrome on the VM, but obviously Java didn't work until I applied John's instructions)

↑1 · flag

Wiem Cristo . 6 months ago %

Hey, I ticked the 3rd box but it's says I have internet problem and it's couldn't download, so I tried to do it by myself I downloaded icedtea-7 plugin but it didn't work out any help please ?

↑ 0 **↓** · flag



John W. Taylor · 6 months ago %

Try running

sudo apt-get update

and then try it again.

↑ 0 · flag

Wiem Cristo . 6 months ago %

Problem solved ! Thank You !!

↑ 1 · flag

Dyana · 6 months ago %

great! Thank you John Taylor.

↑ 1 ↓ · flag

Uohna Foster · 3 months ago %

Thanks John Taylor. We had the same problem as Wiem and your suggestion worked!







Content



Technical University of Denmark

Computational Molecular Evolution

by Anders Gorm Pedersen



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Forums / General Discussion

"Please Sir, can I have some more?"

Subscribe for email updates.

No tags yet. + Add Tag

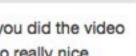
Sort replies by:

Oldest first

Newest first

٠

Nancy Aagaard-Svendsen · 8 days ago %



I would like to thank you, Professor Pedersen, and your associates for an amazing experience. I really liked the way you did the video lectures. You have an easy going way to teach that I really enjoyed and you explained everything very well. It was also really nice getting a chance to hear the Danish accent again after being away for so long. :-)

I love a good brain tease and that's what this course has been for me. My education is the Danish Handelsskole Basis år, so I was really over my head education wise. But I felt I was up to the challenge so I enrolled. Every week I felt like I was drowning in information, but thanks to you and my peers, there was always an explanation. The wonderful jubilation I felt at the end of each quiz when I finally "got it" was one of the best things of this course. I've completed 9 Coursera courses now, but I have to say that this is by far the best of them all. I really hope you make a follow-up course, because other courses are going to pale in comparison. Tusind tak!

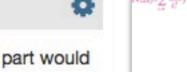
So, without further ado, I beg:

"Please Sir, can I have some more."

↑ 29 · flag

Anneliese Antonucci - 6 months ago %





Best MOOC I have taken so far :-). Very interactive and engaging. I was skeptical on how the programming part would be done. It turned out to be the BEST thing EVER.



+ Comment



Louise Reynolds - 6 months ago %



Thank you from me too! I have thoroughly enjoyed this course. Mixing my two favourite fields biology and computing; this course was made for me!

↑ 11 • · flag

+ Comment



David Fernando Oñate Oquendo - 6 months ago %



Really an excellent course...!!!

My thanks to Professor Pedersen and all staff that made the development of this course possible....

I hope you continue imparting new courses in later

↑ 11 • · flag



Anneliese Antonucci - 6 months ago %





Best MOOC I have taken so far :-). Very interactive and engaging. I was skeptical on how the programming part would be done. It turned out to be the BEST thing EVER.

↑ 28 **小** · flag

+ Comment



Louise Reynolds - 6

Thank you from me too! I have this course was made for n

↑ 11 • · flag



David Fernando Oñ:

Really an excellent course..

My thanks to Professor Ped

I hope you continue imparti

↑ 11 • · flag

Anonymous · 6 months ago %

This was a great course! Very well planned.

I liked the practical, empiracal & theoretical approaches and this last week framework on models selection was just what I was looking for!!

Thanks Prof. Pedersen & staff.

↑ 20 ★ · flag

+ Comment

Anneliese Antonucci - 6 months ago %

Best MOOC I have taken so far :-). Very interactive and engaging. I was skeptical on how the programming part would be done. It turned out to be the BEST thing EVER.

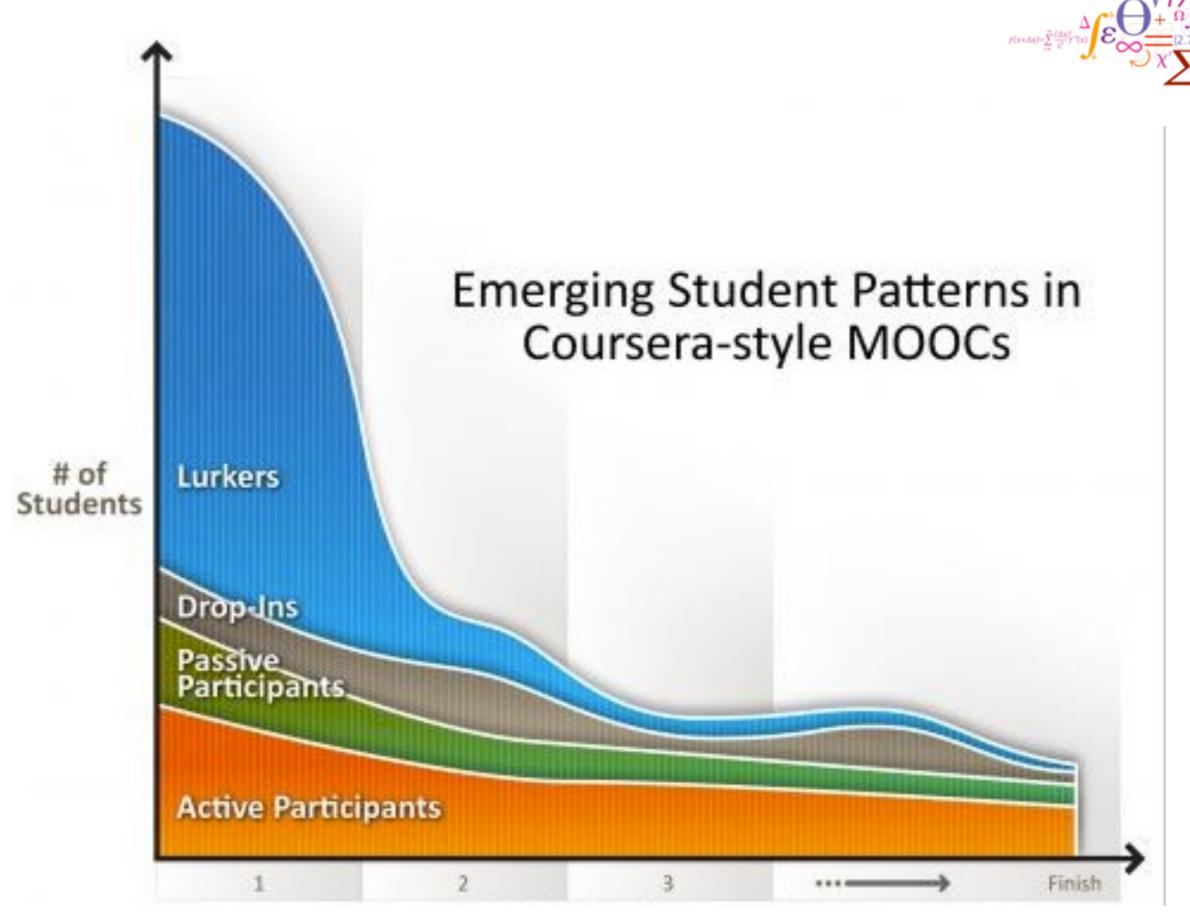
↑ 28 √

Ricardo Teixeira · 6 months ago %

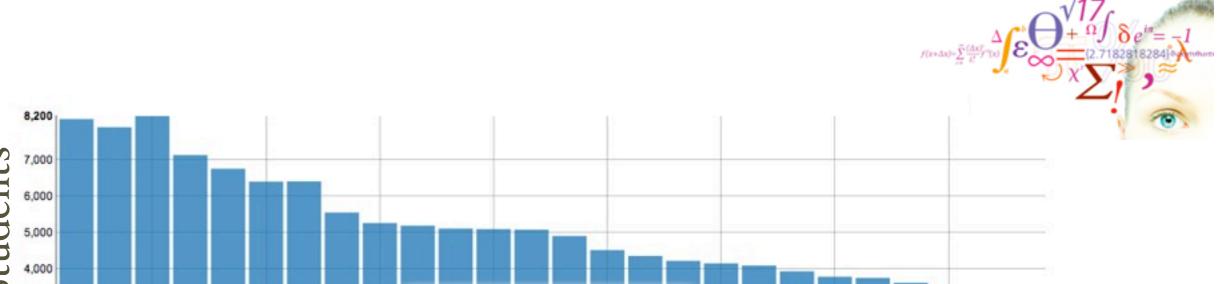
I just finished the final exercise, this completing the course. Thank you so much, Professor, for putting together this material and offering us a great course. Creating the exercises must have been a lot of work, and it's greatly appreciated. I definitely learned a lot!

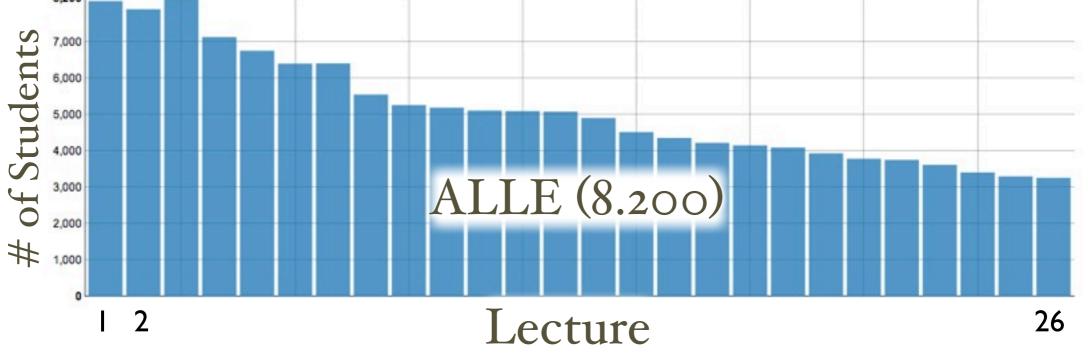
↑ 132 • flag

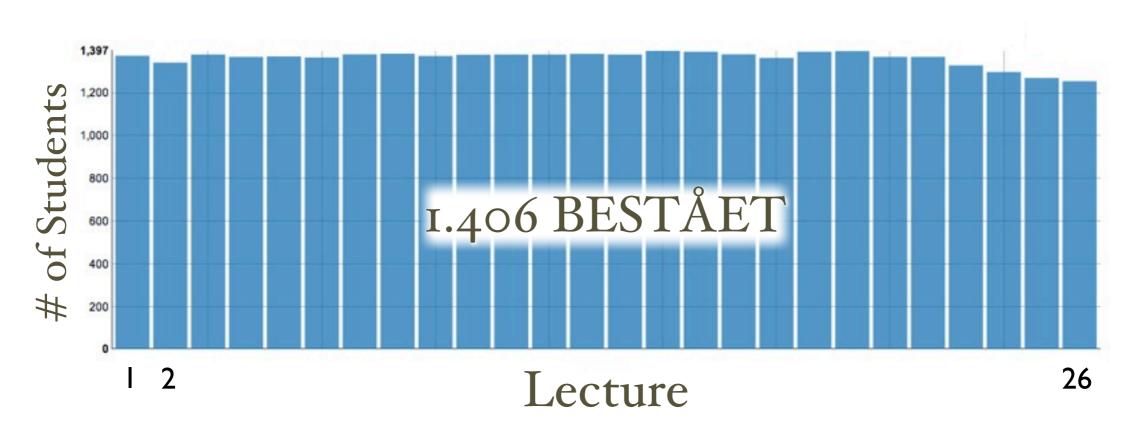
DTU Systems Biology Department of Systems Biology















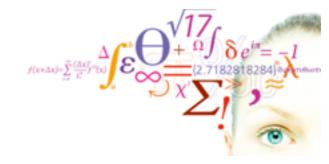












MOOCs



SOCs



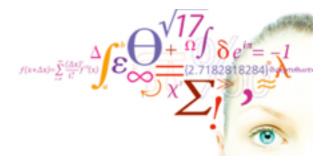


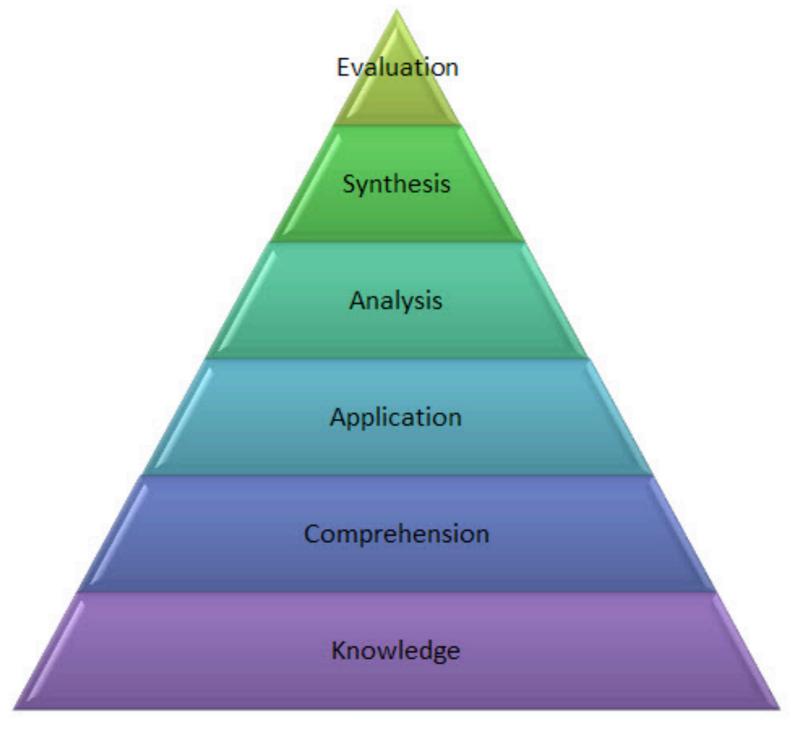
SOCs = **Small** Online Courses





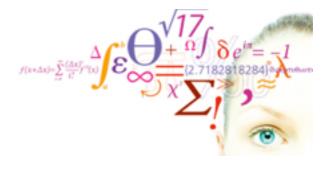


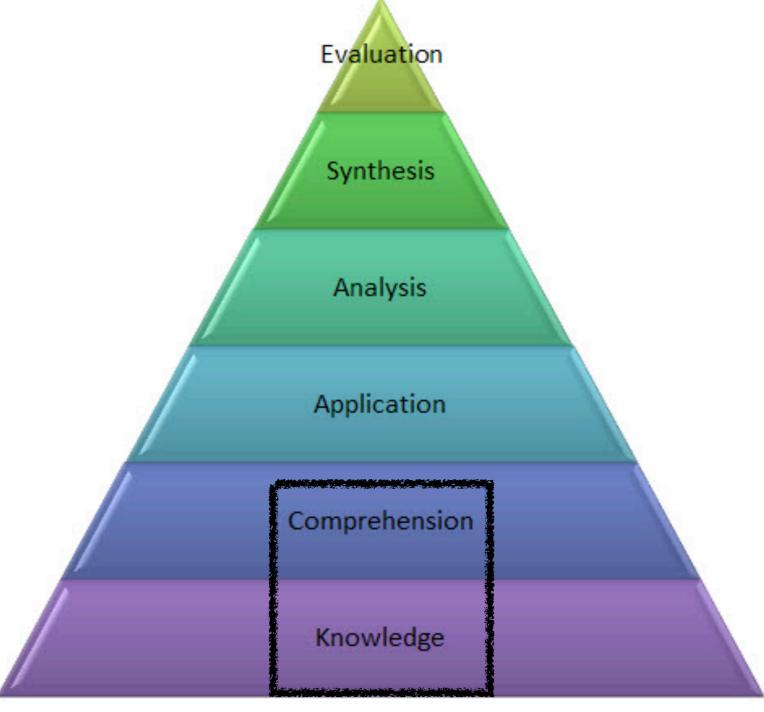






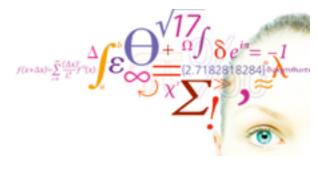


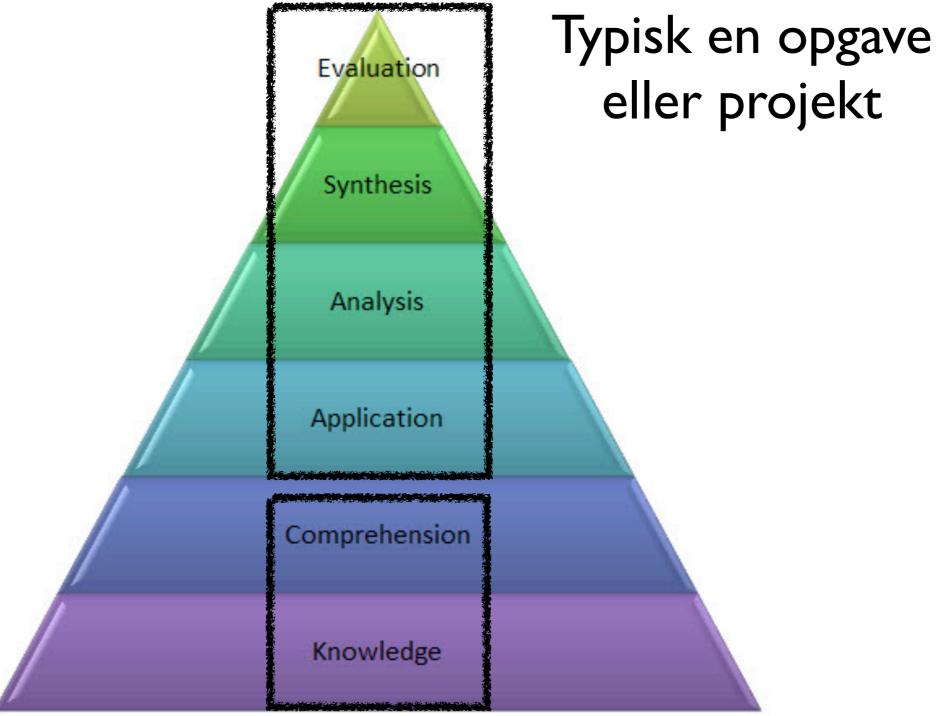






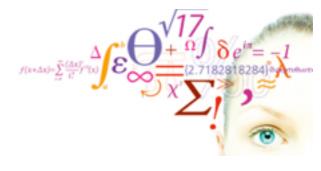


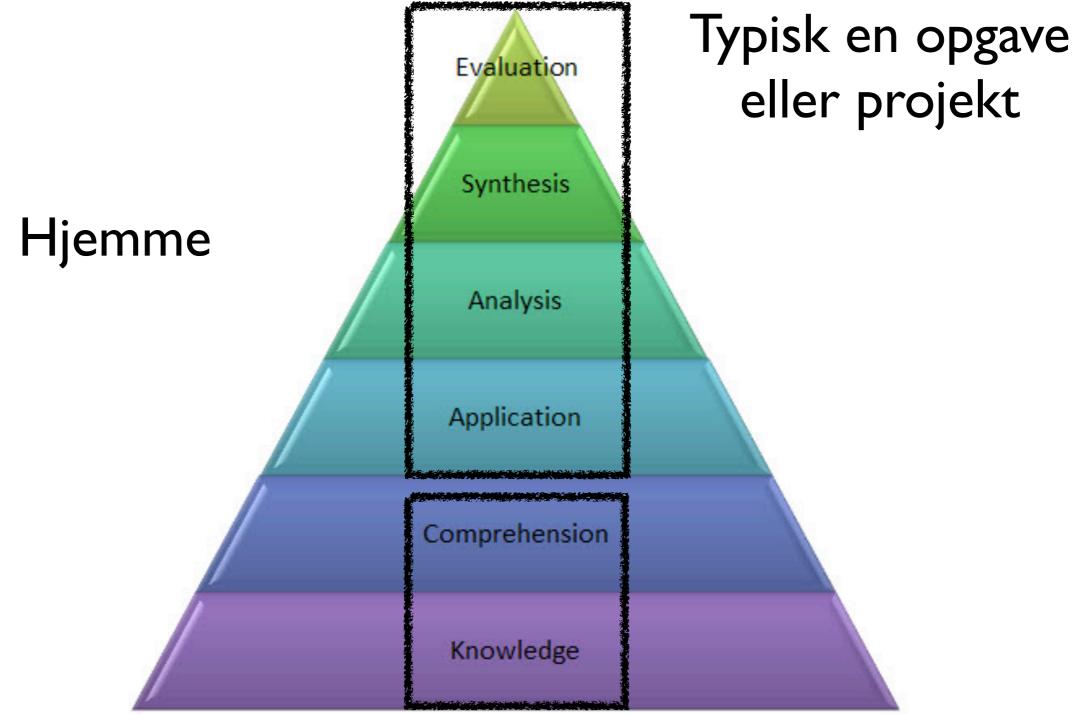






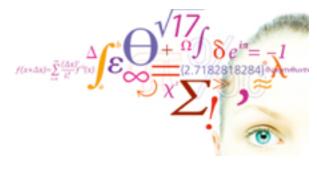


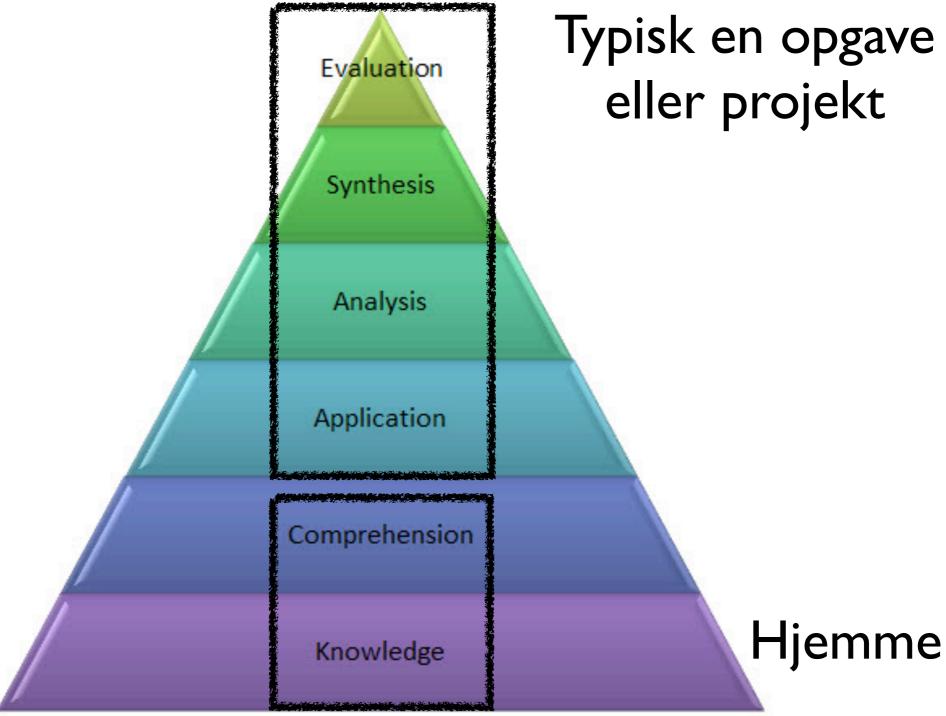






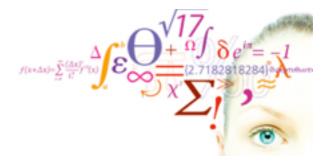


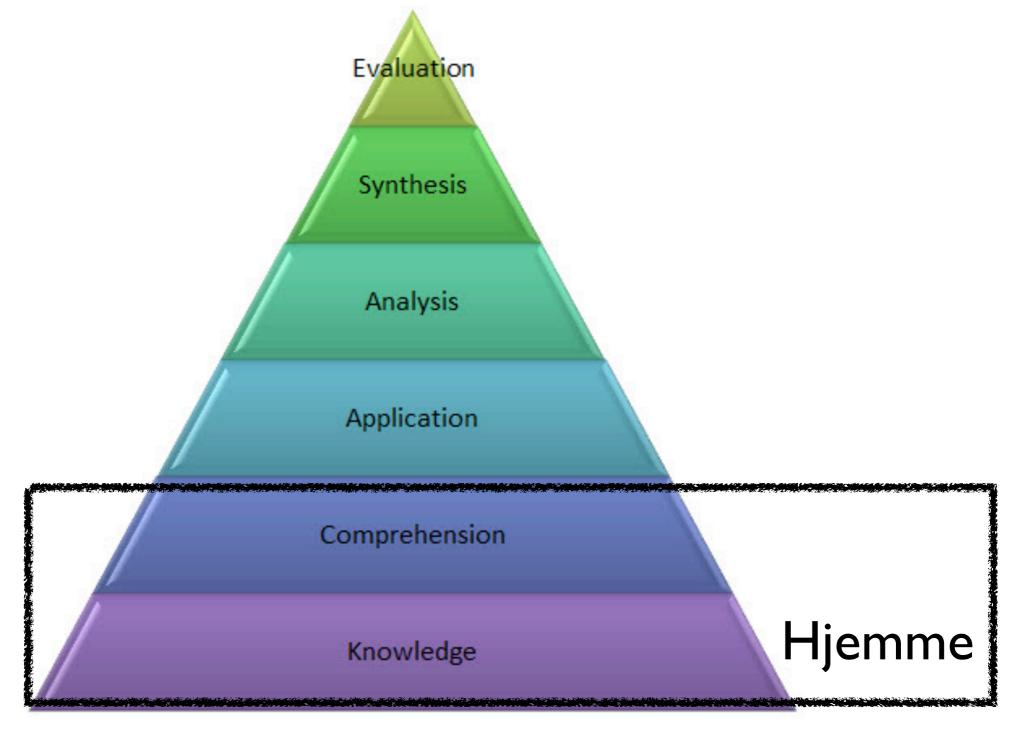








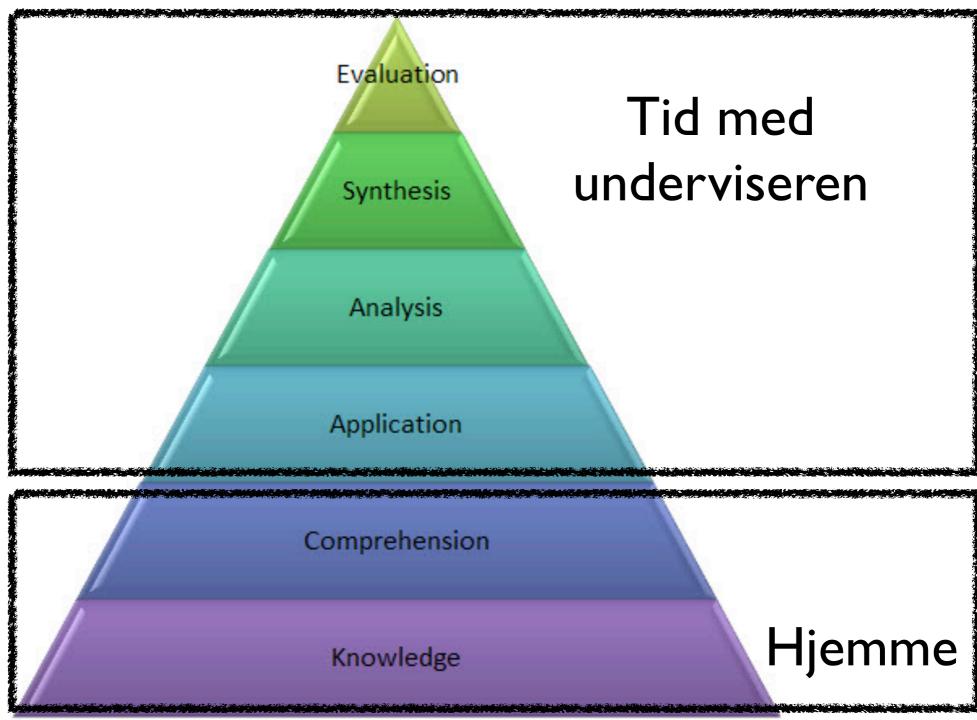




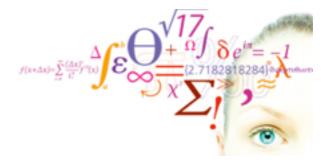




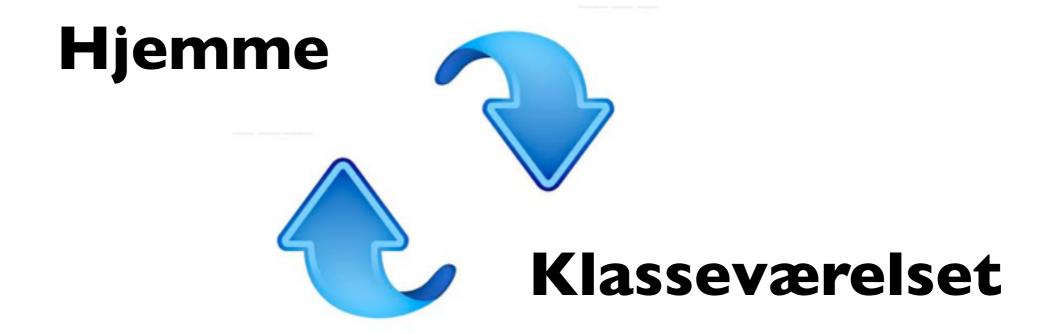




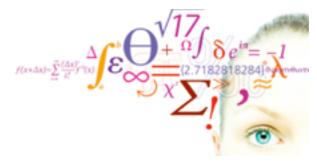












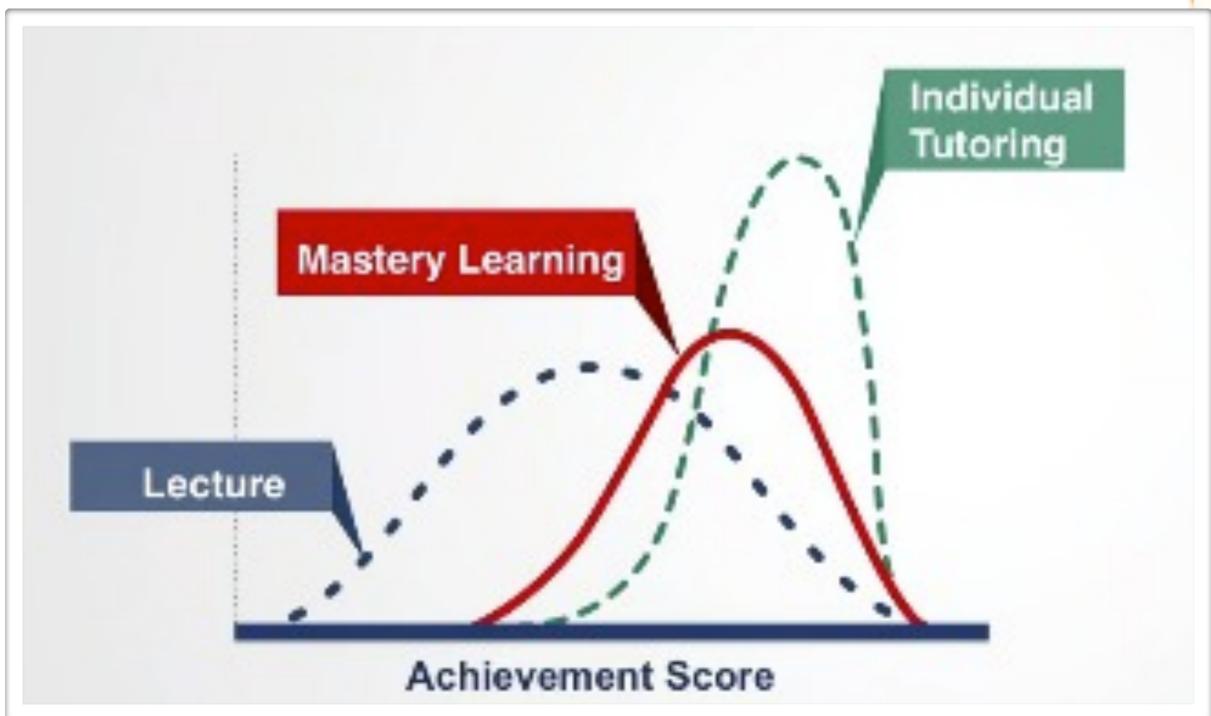
Forelæsninger

Mastery-level metoden

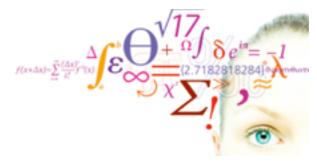
Individuel undervisning









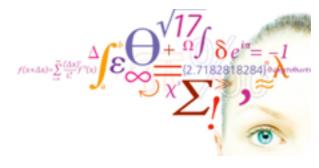


Forelæsninger

Mastery-level metoden

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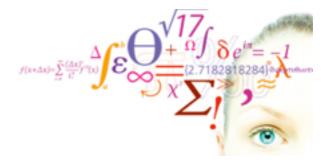


Forelæsninger

Mastery-level metoden

Individuel undervisning





Forelæsninger Feedback

Mastery-level metoden Feedback

Individuel undervisning Feedback



