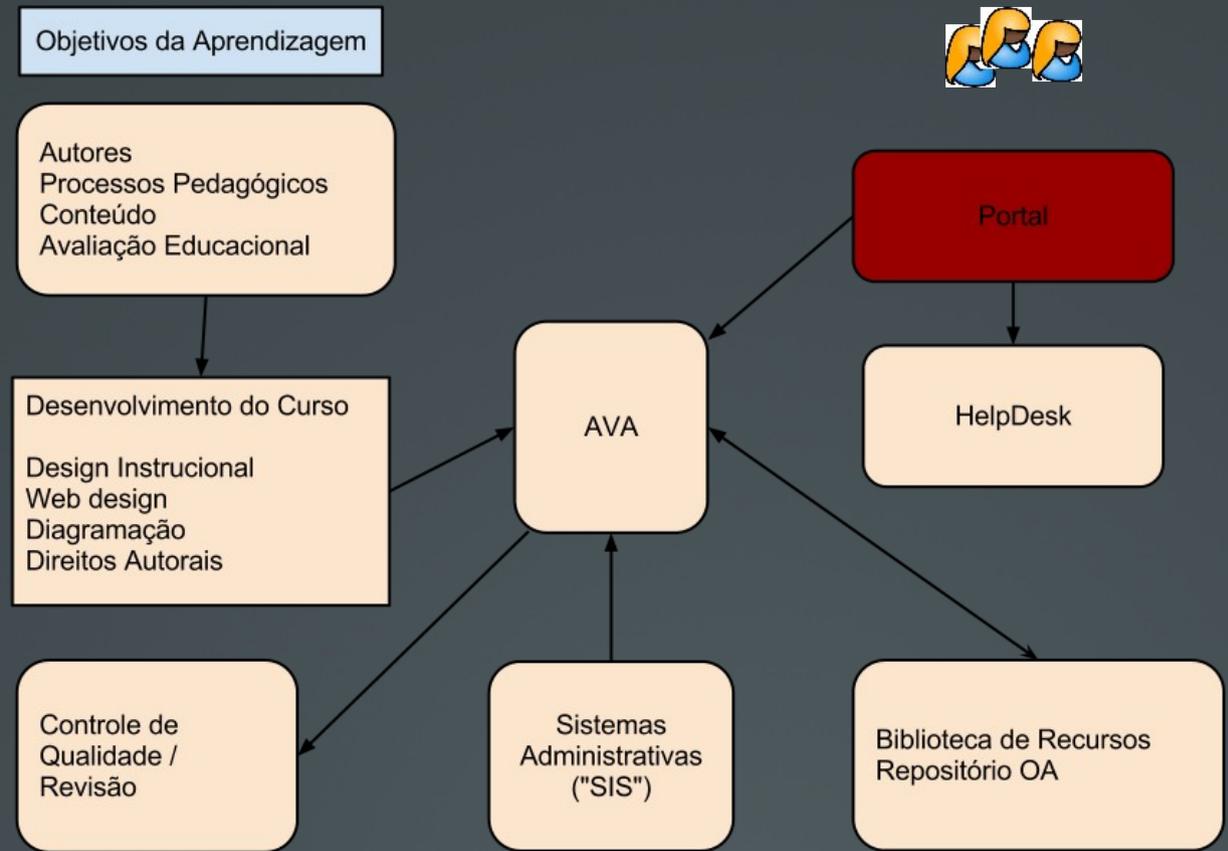


# (aula passada)

## Sistemas de aprendizagem online

O AVA é **um** dos componentes de uma sistema de aprendizagem virtual

ANDERSON, T. The theory and practice of online learning. 2nd ed. ed. Edmonton: AU Press, 2008.



(Aula passada)  
Comparar AVAs: Funcionalidades Básicas

Ferramentas de **disseminação** de conteúdo:

Ferramentas de **comunicação**: fórum, chat, mensagens internas (substituem ou integram com email?)

Ferramentas de **colaboração**: wiki, whiteboard (quadro branco compartilhado)

Formação de **grupos**: contatos, grupos de trabalho, etc.

Ferramentas de **avaliação** (testes, provas, etc.)



# AVAs: Administração

## Modelo de camadas:

### Técnico

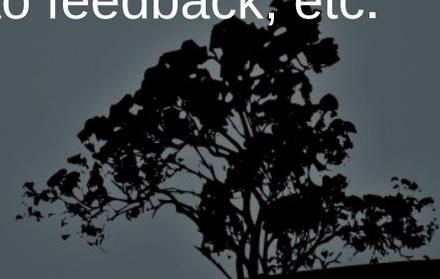
Pessoas que cuidam da instalação e manutenção do sistema e do AVA, customização da aparência visual do AVA e gestão de usuários e que resolvem problemas das pessoas da camada 2.

### Conteúdo

Gestão de conteúdo. Colocar conteúdo no AVA e estruturar o ambiente. Preparar o AVA para receber os alunos. Transformar material em formatos tradicionais como Microsoft Word, PowerPoints, videos, imagens, etc. etc. para formatos adequados para a Web, criam "atividades" para os alunos usando as ferramentas disponíveis no AVA e interagem com as pessoas da camada 3

### Gestão Pedagógico

Pessoas responsáveis pelo material didático e processos pedagógicos. Tutores / monitores / educadores / professores que acompanhem os alunos no AVA, corrigem tarefas, dão feedback, etc.



# Onde Hospedar?

Serviço hospedado por terceiros versus auto-hospedado

Terceiros

Auto-hospedado

Uma conta mensal paga tudo

Pagar conta de luz

Backup e atualizações problema de outros

Cuidar da conectividade com internet (RNP?)

Atendimento e suporte

Atualizações / Backup

A empresa é sustentável?

Autonomia / Controle

Diluição da sua marca

Personalização

Acesso restrito a dados estratégicos

Acesso aos logs

Não terceirizar a sua "competência principal"



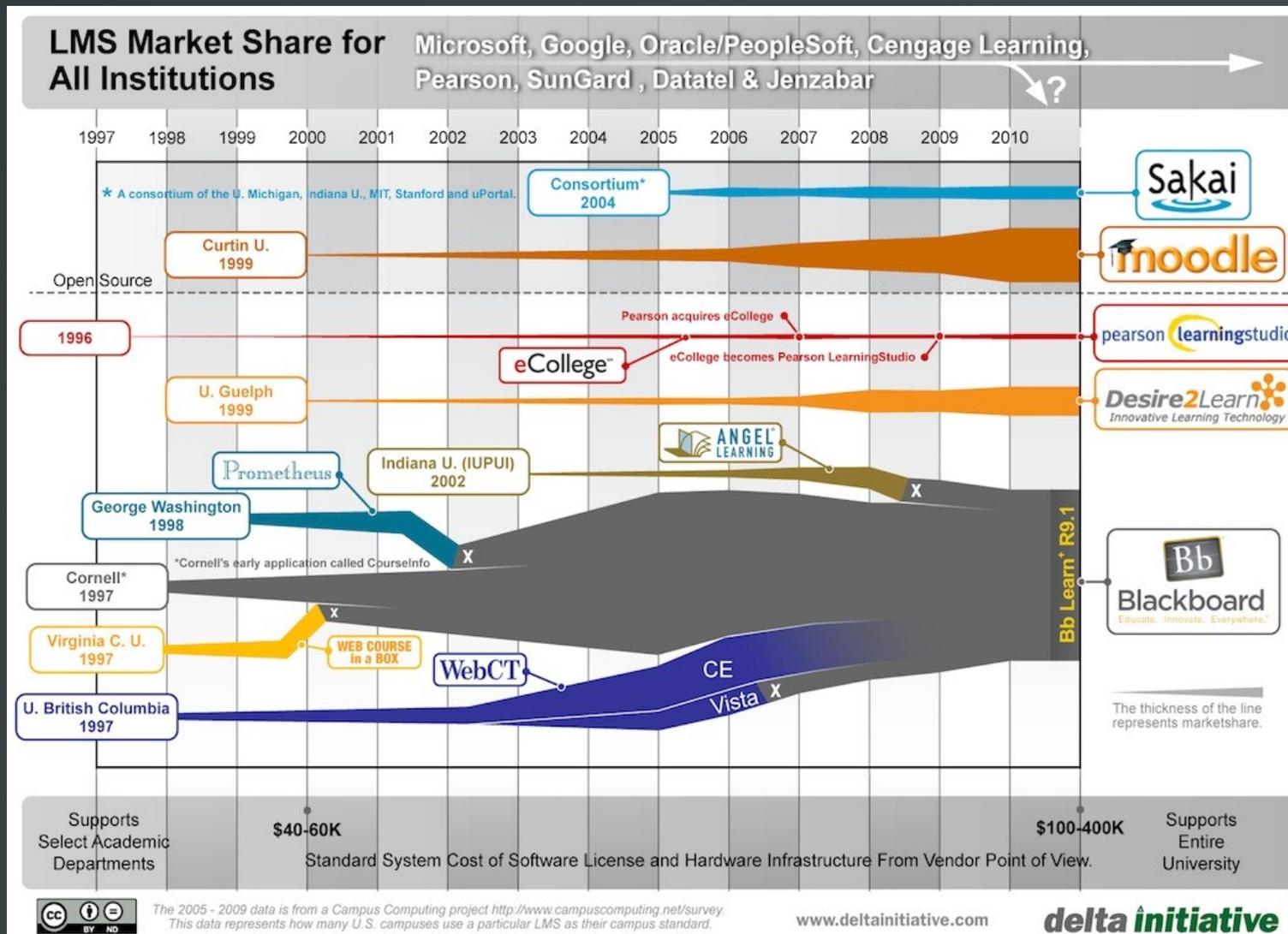
# [para pensar]

Editoras Educacionais (Pearson, Elsevier, Thomson) oferecendo AVAs? Assim controlariam tanto o conteúdo (material didático), os processos pedagógicos (AVAs) e o sistema de avaliação (testes padronizados)

É um caminho para a privatização completa do sistema educacional.



# Mercado de LMS: até 2009



# "startups" de educação

<http://chronicle.com/article/A-Boom-Time-for-Education/131229/>

Venture-Capital Investment in Education-Technology Companies



Note: Data include educational-technology companies in elementary and secondary education, higher education, lifelong learning, and informal education.

Source: National Venture Capital Association, Thomson Reuters

# Instructure (Canvas)

Veja instância de testes

The screenshot displays the Canvas LMS interface for a course titled "TecEd". The browser address bar shows the URL <https://usp.acme.instructure.com/courses/63>. The top navigation bar includes "Courses", "Assignments", "Grades", and "Calendar". The left sidebar lists various course management options: Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Quizzes, Modules, Collaborations, and Settings.

The main content area features a prominent message: "THIS COURSE IS UNPUBLISHED" with a sub-message: "Only teachers can see this course until it is published". Below this is the "Recent Activity" section, which shows a message from "Account Admin" titled "Hospedagem por terceiros ou auto-hospedagem?" dated "Sep 17, 2012 3:53pm". The message content is "Vamos discutir as vantagens de cada um" and includes a "0 messages" indicator. There are also options to "Add a Comment..." and "View Entire Topic".

At the bottom of the main content area, there is a Creative Commons Attribution (CC BY) license notice: "This course content is offered under a CC Attribution license. Content in this course can be considered under this license unless otherwise noted."

The footer of the page includes the text "powered by INSTRUCTURE" and links for "Open Source LMS", "Privacy policy", "Terms of service", "Facebook", and "Twitter".

On the right side, there is a "Coming Up" section with a "View Calendar" link and a "New Announcement" button. Below this, it says "Nothing for now".

The "Next Steps" sidebar on the left lists several tasks: "Import Content", "Add Course Assignments", "Add Students to the Course", "Select Navigation Links", "Choose a Course Home Page", and "Add Course Calendar Events".

A warning message at the bottom of the page states: "14 days left in your Instant Trial (extend now)".

At the bottom right, there are links to "Switch to Teacher View" and "Student View".

# Redu

<http://www.redu.com.br/>

The screenshot displays the Redu website interface. At the top, the logo "redu" is followed by "BETA" and navigation links for "Inicio", "Ensine", and "Cursos". A user name "Ewout" is visible in the top right. On the left, a sidebar contains a profile picture placeholder and a menu with items: "Visão Geral", "Mensagens", "Meu Mural", "Configurações", "Tecnologia Educacional", "AVA Redu", and "Contatos".

The main content area features a notification: "Você tem uma nova requisição de contato:" followed by a request from "Anderson Duarte" with "Recusar" and "Aceitar" buttons. Below this is a search bar. Two announcements from "AVA Redu" are shown, stating "Educar com o Redu possui 15 novos membros" and "Educar com o Redu possui 17 novos membros", each with a row of member avatars and a "Ver mais" link. A section titled "Primeiros passos no Redu" includes a comment from "silvia mª ramos do nascimento nascimento" dated "há 3 dias atrás" and another from "Andreza valeria silva" dated "há 2 dias atrás".

On the right side, a "Conecte-se" button is followed by a list of users with "Adicionar" buttons: Paula Ugalde, Diego Aragão, Robson Bezerra, Edmundo Santana, and Irwing Douglas.



# "Moocs": coursera

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

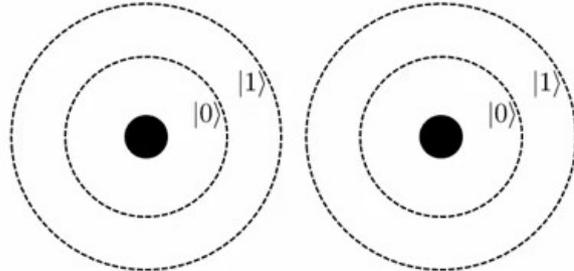
**University of California, Berkeley**  
**Quantum Mechanics and Quantum Computation**

Home  
Video Lectures  
Course Notes  
Assignments  
Optional Assignments  
Discussion Forums  
Course Information  
Course Staff  
Final Exam  
Join a Meetup  
Course Wiki

Video Lectures

- Lect 1
- Welcome
- Overview
- Double-slit
- Double-slit
- Double-slit
- Lect 2
- Lect 3
- Review
- Two qubits
- Entanglement
- EPR
- Lect 4
- Lect 5
- Taking stock [11 mins]

## Two Qubits



- Classically represent two bits of info:
  - 00, 01, 10, 11.
- Quantum state is a superposition over all four classical possibilities:

00:53 | 06:57

« Previous    Press H for keyboard shortcuts    Two qubits [7 mins]    -    Speed: 1.00x    +    Next »

# Udacity

<http://www.udacity.com/view#Course/st101/CourseRev/1/Unit/184001/Nugget/202001>

UDACITY ST101

My Classes ▾ Welcome, ewout ▾

Overview **Classroom** Discussion Wiki Announcements Progress

## Two Flips 1

{ HEADS, HEADS }

$$P(H, H) = 1$$



Like 1 Tweet 0 +1 1

- + Problem Set 1: Visualization
- 8. Probability
  - 1. Probability
  - 2. Flipping Coins - Question - Answer
  - 3. Fair Coin - Question - Answer
  - 4. Loaded Coin 1 - Question - Answer
  - 5. Loaded Coin 2 - Question - Answer
  - 6. Loaded Coin 3 - Question - Answer
  - 7. Complementary Outcomes
  - 8. Two Flips 1 - Question - Answer
  - 9. Two Flips 2 - Question - Answer
  - 10. Two Flips 3 - Question - Answer
  - 11. Two Flips 4 - Question - Answer

0:11 / 0:22

3D ⌵ ⚙ ⌚ YouTube

< Previous

Next >

Auto-Next: ON

Instructor Comments

Supplementary Material

# EdX (MIT/Harvard)

<https://www.edx.org/>

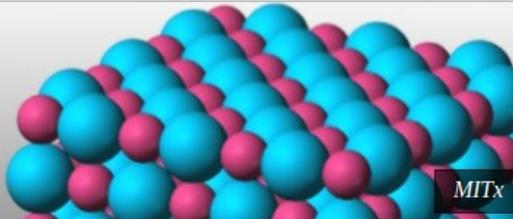
The Future of Online Education  
*for anyone, anywhere, anytime*



EXPLORE FREE COURSES FROM edX UNIVERSITIES



3.091x Introduction to Solid State Chemistry →



MITx

CS50x Introduction to Computer Science I →



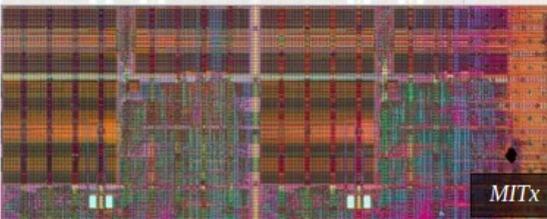
HarvardX

CS169.1x Software as a Service →



BerkeleyX

6.002x Circuits and Electronics →



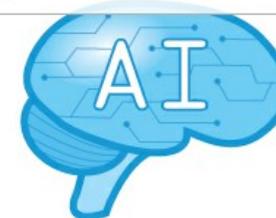
MITx

PH207x Health in Numbers: Quantitative Methods in Clinical & Public Health Research →



HarvardX

CS188.1x Introduction to Artificial Intelligence →



BerkeleyX

# Oficina Moodle

Entrar na "Instância de Testes" em <http://dev.atp.usp.br/stoa2> usando uma de:

login	senha
professor1	senha1
professor2	senha2
...	....
professor30	senha30

## Abrir duas abas no seu navegador

1. Ambiente de Ewout (visão como aluno)
2. O seu ambiente (tecedXX) (visão como docente)



Ewout ter Haar  
Instituto de Física – USP  
ewout@usp.br



ewout@usp.br

