

Video as a Learning Tool

Educational Technologies - U.PORTO

Nuno Regadas

UNIVERSIDADE DO PORTO


**TECNOLOGIAS
EDUCATIVAS**

Who are we?

Educational Technologies Unit celebrates its 20 years in 2018. Since 1998, has the mission to promote and support the use of a wide array of technologies in teaching/learning environments, focusing on the quality and the effectiveness of such technologies, particularly.



Agenda

- Video in Education - increasing importance;
- Different kinds of educational videos;
- Recordings by Students;
- How to start recording using  Panopto™

TIP: Videos serve a purpose - to help you help students to achieve their potential.

The internet of videos



Como|

Will video revolutionize teaching/learning?

This Will Revolutionize Education

<https://www.youtube.com/watch?v=GEmuEWjHr5c>



In Education

- Lecture Capture (speaker and presentation);
- Explainer videos;
- Software tutorials;
- Events;
- Webcast.



Search this recording

Contents

Captions

Discussion

Moore's law observes that the number of transistors in an integrated circuit doubles approximately every two years. Today's lecture examines the serious and interesting implications Moore has for continued technical development and manufacturing.

Future of Computing: Moore's Law & Its Implications...	0:00
Sample of 117 processor chips	5:43
Moore's Thesis	9:07
Moore's Law: 50 Years	9:14
What Moore's Law Has Meant	11:24
Visualizing Moore's Law to Date	14:19
Moore's Law Economics	15:41
What Moore's Law Could Mean	18:28

Future of Computing: Moore's Law & Its Implications

15-213: Introduction to Computer Systems
27th Lecture, Dec. 3, 2015

Instructors:

Randal E. Bryant and David R. O'Hallaron

Bryant and O'Hallaron, Computer Systems: A Programmer's Perspective, Third Edition

0:15 -1:09:14 1x Speed Quality Slides Hide

Future of Computing: Moore's Law & Its Implications
15-213: Introduction to Computer Systems
27th Lecture, Dec. 3, 2015

Instructors:
Randal E. Bryant and David R. O'Hallaron

Moore's Law: 50 Years
Transistor Counts by Year

Moore's Law Origins

- Moore's Thesis
 - Minimum price per device
 - Exponential reduction of program size (doubling 1/2 year)
- Later
 - 3x/2 years
 - "Moore's Halflaw"

Moore's Thesis

- Minimum price per device
- Exponential reduction of program size (doubling 1/2 year)



Search this recording

Contents	
Crashworthiness & Dynamics Analysis	0:00
Discussion	
Basics of Crash management-1	0:16
Basics of Crash management-2	0:23
Vehicle Safety Loadcases	0:28
Material = Steel Elastic Modulus 210 Gpa Poisson...	0:36
Objective 1: Full Frontal Crash	0:56
Conduct frontal...	
Objective 2: 40% Offset Frontal Crash	1:20
Conduct...	

The screenshot displays the Abaqus/CAE software interface. The main window shows a 3D mesh model of a car chassis. The left-hand side contains the Model Database tree, which lists various components like STEEL, Profiles, Assembly, and Step 1. The bottom of the interface features a status bar with a message: "The model database 'C:\Abaqus_Temp\car volvo.cae' has been opened. The model 'FULL-IMPACT' has been created. The set 'ACCELEROMETER' has been created (1 vertex)." Below the main window is a video player interface with a play button, a progress bar at 15:16, and other controls like volume and speed.



Search this recording 

Contents
Discussion

This recording shows three different angles of Luke Hawkins playing the piano. Luke is an MA Performance student at the University of Chichester.



Video player controls including play/pause, 10s rewind, 0:24 timer, progress bar, 0:25 skip forward, volume, 1x Speed, Quality, Camera dropdown, and Hide button.



U.PORTO

Powered by
Panopto

> Apresentação



Help

Sign out

Search

Notes

Bookmarks

Discussion



0:37



-1:24



1x

Speed



Quality

Search this recording 🔍

Contents		
Captions	<i>Para se autenticar no Panopto pode aceder de duas formas: via Moodle/Academia ou diretamente no website uporto.cloud.panopto.eu.</i>	
Notes		
Bookmarks	Acesso via Moodle	0:06
Discussion	Moodle - Botão "Acesso Panopto"	0:15
	Acesso via website	0:19

⏸ 0:14 🔍 -0:41 🔊 1x Speed Quality Hide

Student's recordings

- Improve presentation skills;
- Simulations;
- Self-evaluation;
- Saving time (not losing time in class for presentations);
- Increased motivation.

KISS principle

(K)eep

(I)t

(S)imple,

(S)tupid



The 3 Stages of videos...

- Planning;
- Recording;
- Editing.

Planning

- Does it make sense to use a video?
- What are the learning objectives?
- What type of video I want to record?
- Scripts and logistics.

Recording and editing are a breeze

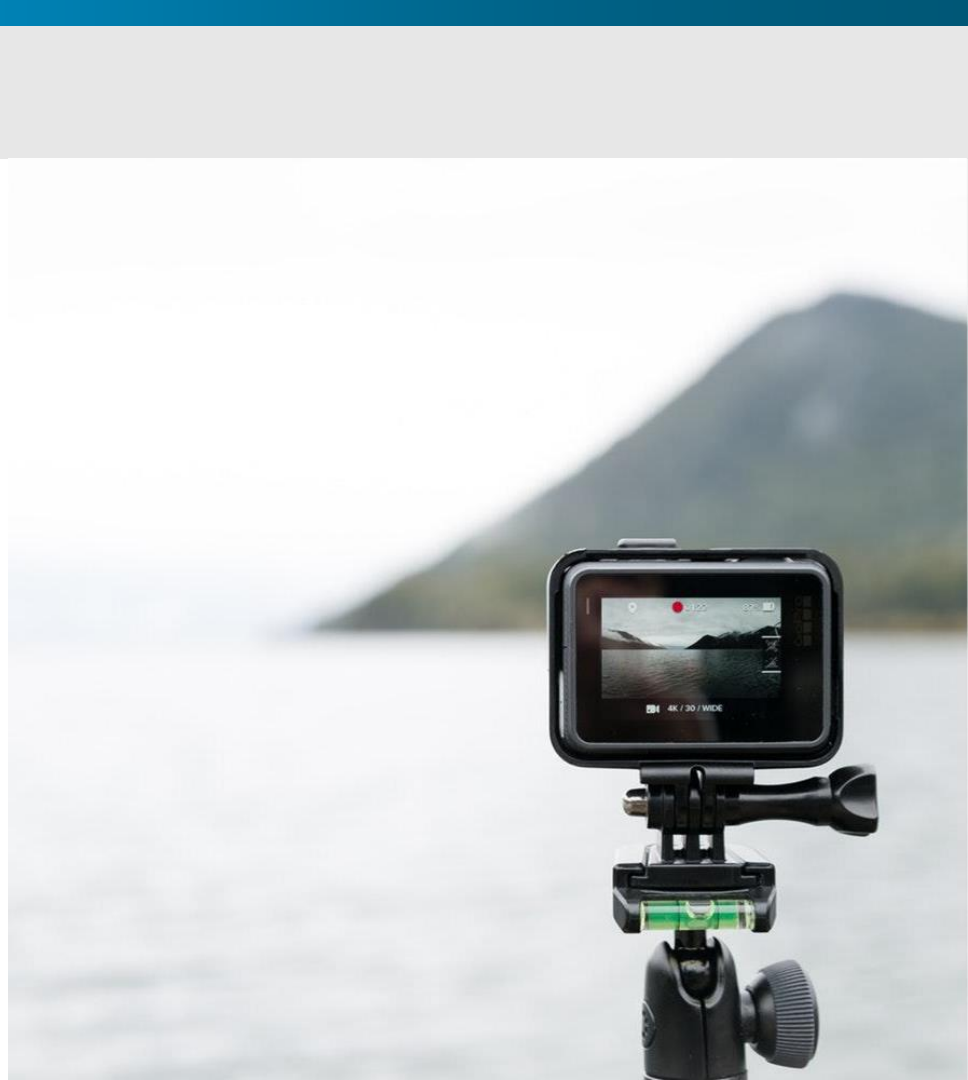
- Is the location relevant?
 - Should not distract.
 - Favourable acoustic.
 - Lighting
- Pay attention to clothing!

Latest numbers - Panopto (12/11/2018)

- + 18598 Users;
- + 5433 Sessions;
- + 137772 Views;
- + 548 Installed recorders.



uporto.cloud.panopto.eu



Thank you!

For more information go to:

- <https://elearning.up.pt>
Follow us on Facebook @TE.UPORTO

Nuno Regadas - nregadas@uporto.pt



EXTRA INFORMATION

- Webcam Logitech C525
- Jabra Speak 510
- List of material for Studio:
 - Lights F&V K4000 Studio Kit - €900+VAT
 - Camera Canon Legria G40 - €900+VAT
 - Microphone Sennheiser EW 112P G3
 - Magewell USB Capture HDMI USB 3.0 - €300