

Interactive Presentations & Learning Recording Store (LRS)

E-learning course (From PowerPoint to xAPI)



- Introduction
- Fundamentals
- Tools
 - Articulate Storyline
 - Veracity Learning
- Approach
- Outcomes
- Conclusions



- Main problem:
 - Traditional electronic presentations
 - Addressed to teaching (lectures)
 - Lack of interaction and adaptation features
 - Difficult to track their use
 - Current context
 - Non-linear learning style oriented towards engaging students
 - Use of multiple types of devices
- Proposal
 - Shift from traditional (linear) presentations to interactive presentations
 - Adapted to mobile or other devices
 - Able to encourage students to participate during the learning process
 - Tracking and storing their progress in this process



- What Is an interactive presentation? [Paperform]:
 - One that includes several content elements
 - Hotspots, navigation links, animations...
 - which allows users to participate and engage
- Types of interactive presentation:
 - Informative
 - Instructive
 - Persuasive
 - Inspirational
 - ...
- Activity
 - *Which is your interest in interactive presentations?*



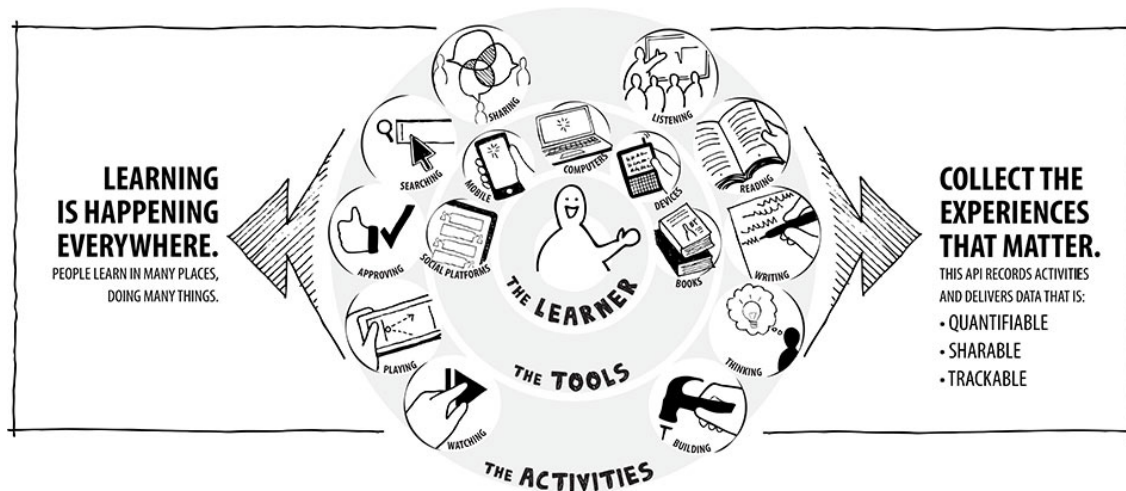
- The benefits of an interactive presentation [Paperform]:
 - Increased engagement
 - Connect with your audience
 - Better information retention
 - Personalized delivery
 - A more enjoyable experience
 - ...
- Activity
 - *What do you think about these benefits?*



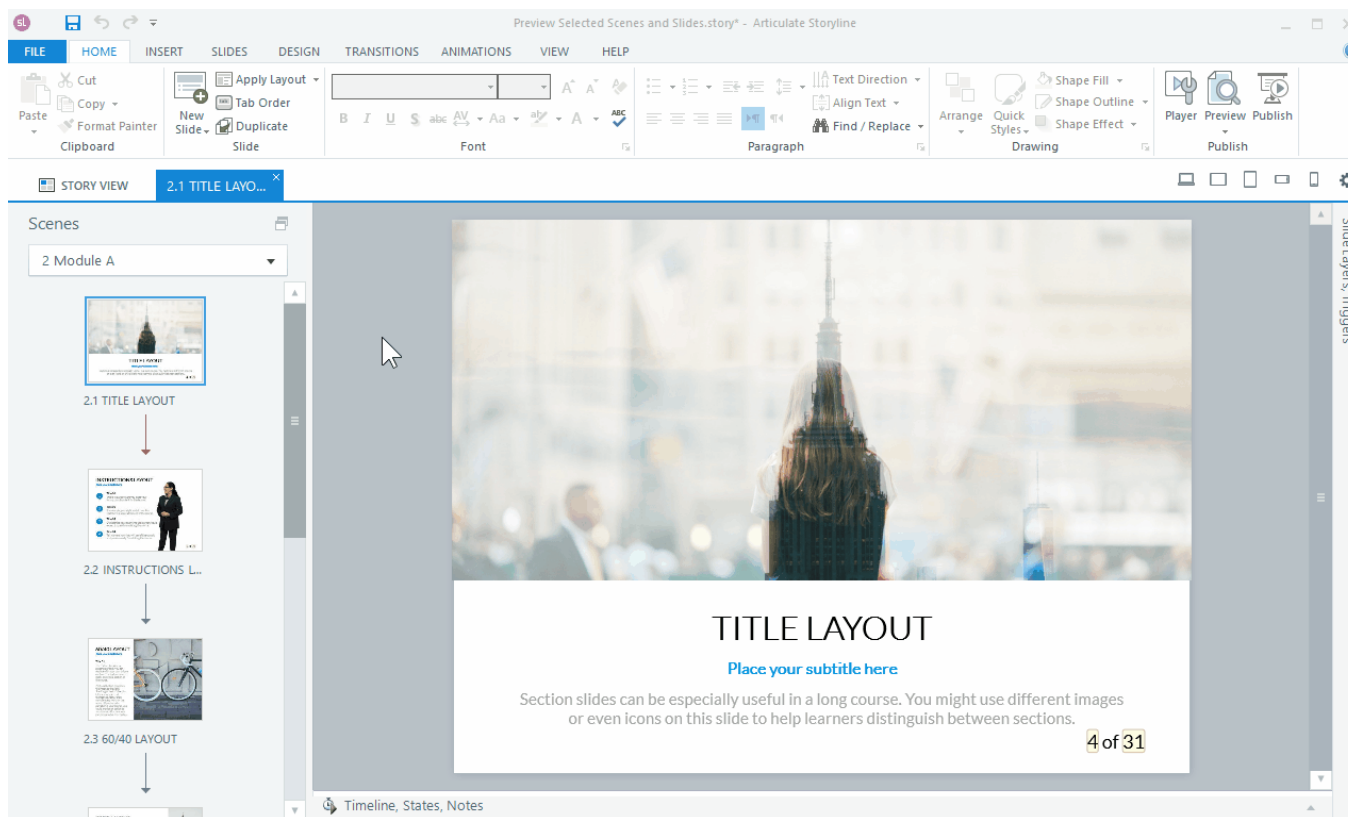
- Review of tools to prepare interactive presentations [Kolinski]:
 - iSpring Suite: <https://www.ispringsolutions.com/ispring-suite>
 - Prezi: <https://prezi.com/>
 - Mentimeter: <https://www.mentimeter.com/>
 - ClassFlow: <https://classflow.com/>
 - FlowVella (Apple): <https://flowvella.com/>
 - IntuiFace: <https://www.intuiface.com/>
 - Visme: <https://www.visme.co/>
 - Genially: <https://genial.ly/es/>
 - isEazy: <https://www.iseazy.com/es>



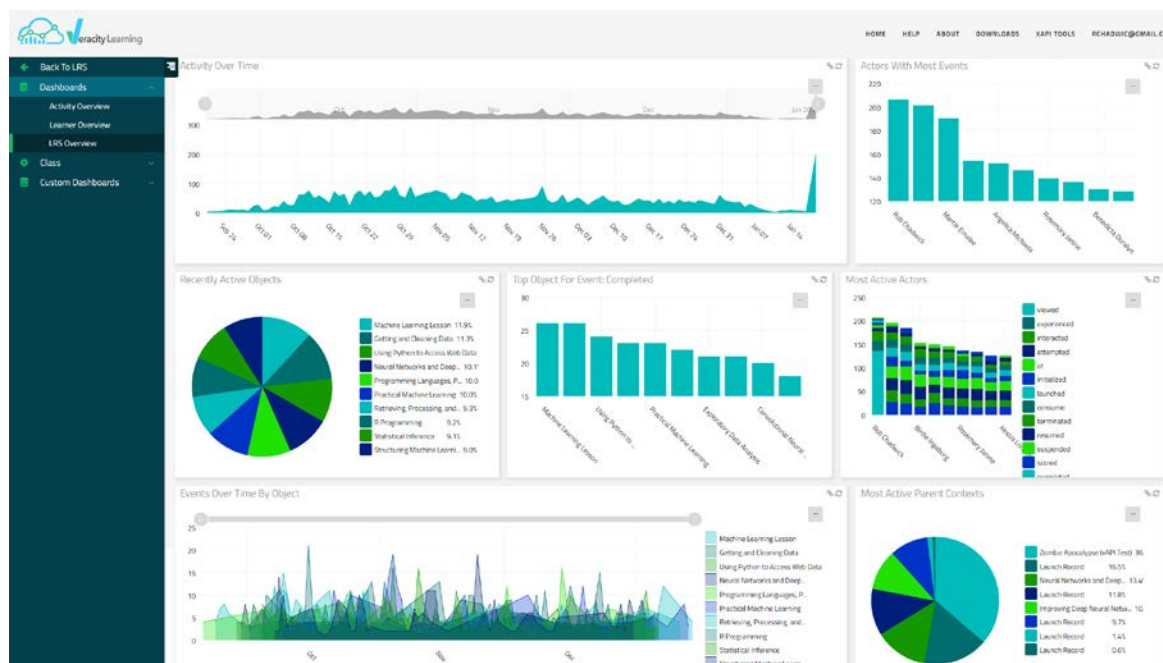
- Multiple tools for developing interactive presentations
 - Put the focus on those tools able to produce standard packages
 - How to Create an Interactive SCORM Course Using PowerPoint and iSpring Suite <https://www.educationalappstore.com/blog/create-scorm-course/>
 - And track user interactions
 - What is the Experience API? <https://xapi.com/overview/>



- Articulate Storyline 360
 - Build Highly Interactive E-Learning Courses (<https://articulate.com/360/storyline>)



- Veracity Learning
 - Software platform for recording and reporting learning experiences
 - LRS (Learning Record Store) <https://lrs.io/home>



- Main idea based on:
 - Starting from linear PowerPoint presentations
 - Try to implement an interactive (non-linear) version
 - Convert it to an Articulate Storyline product
 - And connect with an LRS (Veracity Learning) provider through xAPI

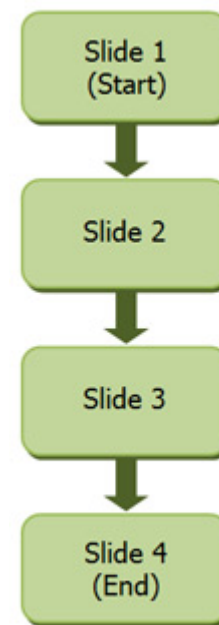


- Concept of presentation
 - As a collection of related slides [Tech-ICT]
 - Author(s) decide on the pace, the timing and the structure of the presentation
 - This structure will determine how to navigate through the slides and view the information available
- Methods to structure presentations:
 - linear
 - non-linear
 - hierarchical



■ Linear presentation

- Each slide is presented one after another in numerical order
- There is no facility to jump to out-of-order slides
- Mainly addressed to
 - imparting facts and figures such as presenting the results or summarizing a finished project
 - with a minimal amount of audience participation



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https://www.teach-ict.com/as_a2_ict_new/ocr/AS_G061/316_present_communicate_data/linear_nonlinear_pres/miniweb/pg2.htm

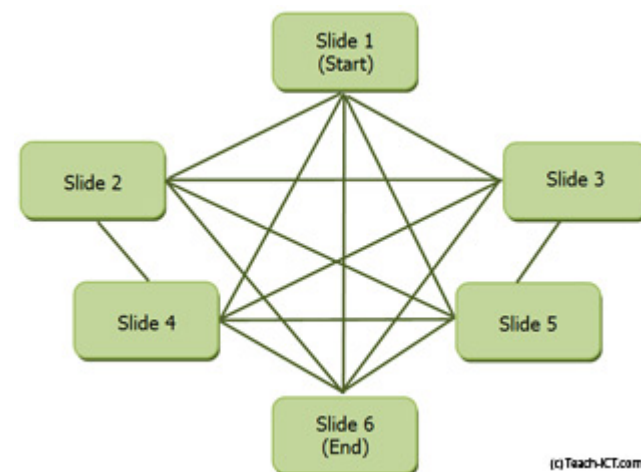


■ Pros/cons of linear presentations [Tech-ICT]

Advantages of linear presentations	Disadvantages of linear presentations
Predictable, every audience will see exactly the same presentation	Not very interactive with the audience, they cannot change the order of presentation
Relatively easy for another person to do the presentation should the author be unavailable as the presentation always runs in the same order	Not flexible in terms of changing the time taken to do the presentation, for instance a presentation planned for 1 hour may now need to be done in half an hour, this is not simple in a linear presentation
Simple to prepare handouts as slides are always in the same order	It is apparent to the audience they are not seeing the full presentation if slides need to be skipped
Timing of the presentation is very predictable	Can be boring as the audience may have to view slides that happen to be irrelevant to them



- Non-linear presentation
 - A collection of slides where is possible to jump to any out-of-order slides [Tech-ICT]
 - Some kind of navigation mechanism can be built into the presentation
 - based on Previous, Next buttons or hyperlinks to jump to other parts of the presentation
 - Mainly addressed to:
 - encouraging or motivating users's participation



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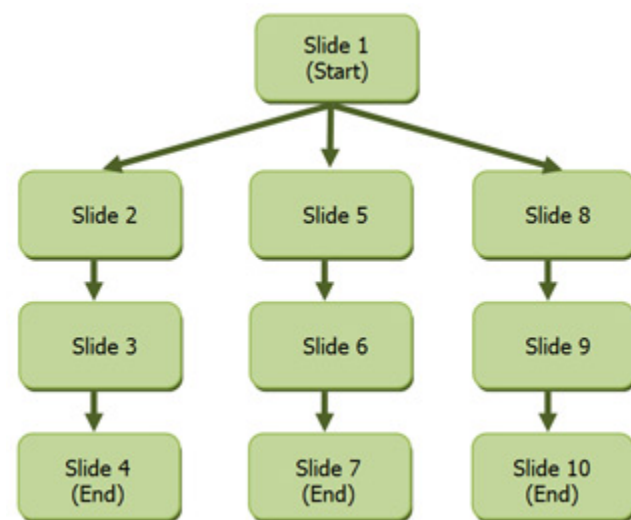
■ Pros/cons of non-linear presentations [Tech-ICT]

Advantages of non-linear presentations	Disadvantages of non- linear presentations
Slides can be accessed in any order	More complicated than a simple linear presentation
User can go both forward and backwards through the slides should they want to view a particular slide again.	Harder to predict the timing of the presentation
Can provide a presentation that meets the needs of the individual user.	Harder to hand over the presentation for someone else to do
The presenter can use the same presentation for different audiences	Need to incorporate navigation method into the slides
Improved interactivity. Non-linear allows the presenter to invisibly skip slides should they want to, for instance the points covered in the next slide may now be irrelevant following a dialogue with the audience	Harder to prepare a set of handouts
A 'generic' presentation can be adapted to suit a particular audience. For instance a sales team might be very interested in the sales figures slides of the presentation pack, but the production team are more interested in the production figures slides that are also in the same pack. The presenter can skip the irrelevant ones.	



■ Hierarchical presentations

- Slides are organized in a tree-like structure where the presentation has branched paths [Tech-ICT]
- These can be presented with branching options immediately view a number of slides before the options are presented
- Once the user has chosen a path or branch to follow, movement through the following slides follows a 'pre-determined route'
- Mainly addressed to:
 - presenting highly structure material such as a training session
 - or combining the presentation with real or simulated scenarios



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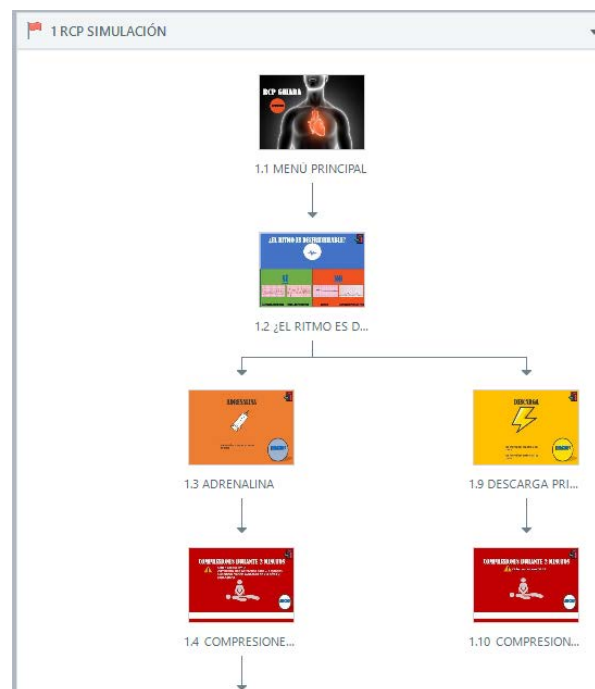
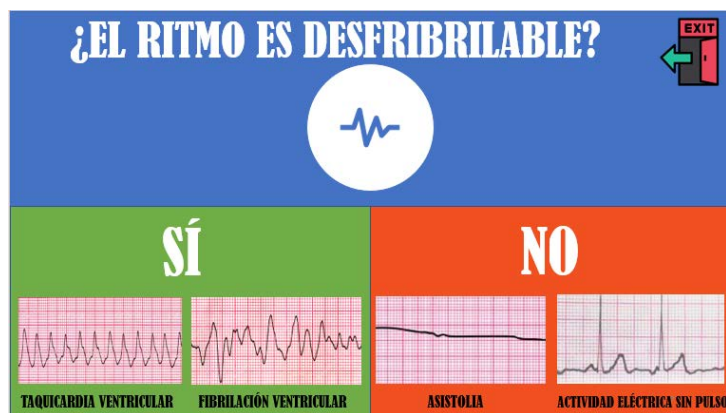
- Proposal of interactive presentation
 - Review the topic to be presented
 - Which type?
 - Theoretical / practical
 - Live / Pre-recorded
 - Realistic / Simulated scenario
- Activity
 - *Which is a better method to structure presentations?*
 - non-linear
 - hierarchical



- Example of interactive presentation
 - Clinical guidance for nurse practitioners
 - Video explanation <https://www.youtube.com/watch?v=4kQ3uMNBT3c>
 - Type of presentation
 - Practical application
 - Live performed
 - Based on a simulated scenario
- Approach stages
 - Starting with a PowerPoint presentation as a prototype
 - Generating an Articulate Storyline product
 - Publishing a SCORM package to be used in mobile devices
- Activity
 - *Try to implement these stages using a topic of your interest*



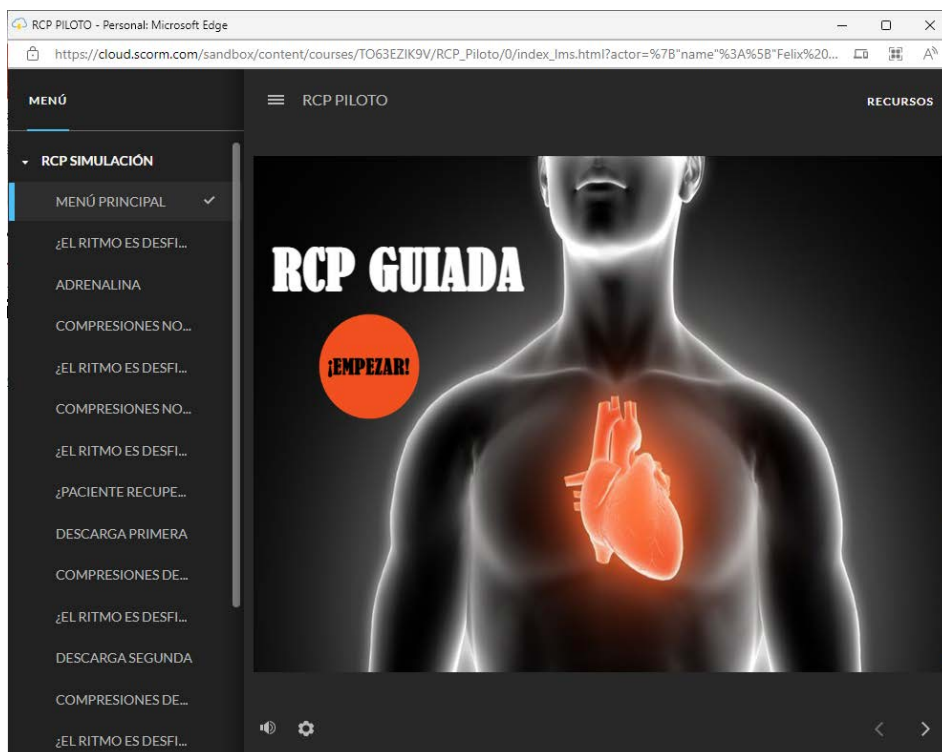
- Example of interactive presentation
 - Clinical procedure
 - CPR (Cardio Pulmonary Resuscitation)
 - Hierarchical structure with two branches of guidance activities



- Working with an interactive presentation

- SCORM package

- https://cloud.scorm.com/sandbox/content/courses/TO63EZIK9V/RCP_Piloto



- Need for interactive presentations
 - Beyond traditional PowerPoint (linear) products
 - Used as starting prototypes
- Technical solutions based on
 - Applications for producing these interactive or hierarchical presentations
 - Adobe Captivate or Articulate Storyline 360
 - Able to generate standard SCORM packages and xAPI events
 - That can be tracked and stored on LRS platforms
- Also, and more important
 - Pay attention to the instructional requirement for these presentations



- Paperform. Online form builder
<https://paperform.co/blog/interactive-presentation/>
- Kolinski, H. 12 Interactive Presentation Software: Grab and Hold an Audience's Attention (2022).
<https://www.ispringsolutions.com/blog/10-interactive-presentation-software-grab-and-hold-an-audiences-attention>
- Tech-ICT. Linear, non linear and hierarchical presentations
https://www.teach-ict.com/as_a2_ict_new/ocr/AS_Go61/316_present_communicate_data/linear_nonlinear_pres/home_linear_nonlinear.html

