



WG2.4: Technical committee

18th September 2017

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Aim and calendar of the technical committee

- Aim: decide on the technical means to deliver the ARIES MOOC.
- Calendar: we must produce a report before April 2018 (to have it ready for the May 2018 deadline).
- We will meet (by video) once a month to prepare this report.

Charge of the committee

- Under which license (copyright) should the course be realised to ensure the most widespread diffusion among the ARIES member countries (and beyond)? What is the paperwork required (for example from each lecturer) for this format?
- What would be the most appropriate file format for the course? (allowing conversion to other relevant format with a reasonable quality)
- Which MOOC platform(s) are the best suited? Can we (technically and legally) use different platforms for different countries?
- Different MOOC platforms have different economic models. Which one are acceptable to us?
- Can we deliver the courses as several modules or does it have to be monolithic?
- *How to integrate external contributions such as recorded seminars, lab PR videos,...*

Calendar to address these questions

- Today: File format, a comparison of platforms, presentation of the Creative Commons license
- October: Discussion on platforms, license
- November: Decision on platform and license
- December-January: write the committee report.

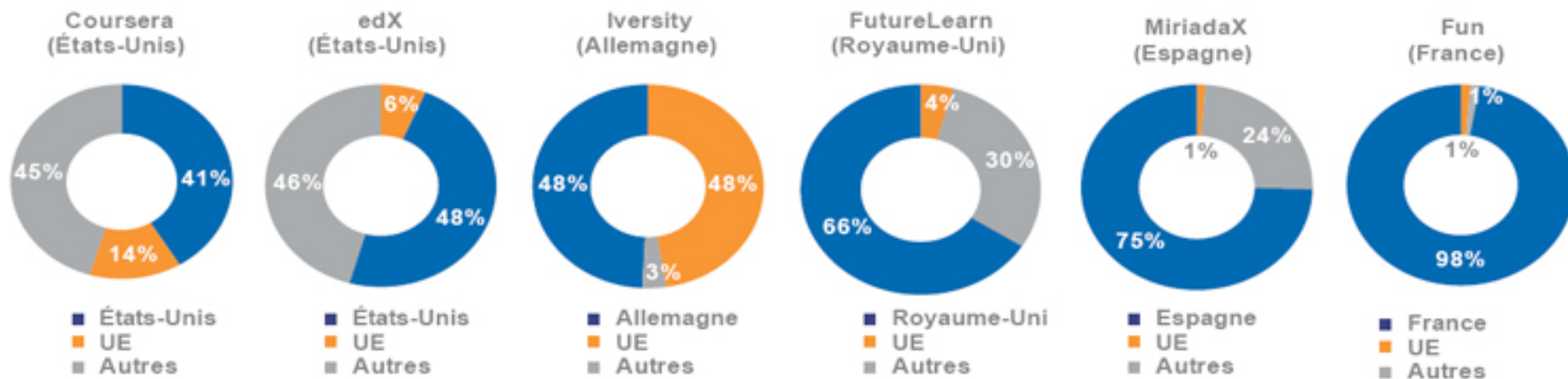
Charge of the committee: today's meeting

- Under which license (copyright) should the course be realised to ensure the most widespread diffusion among the ARIES member countries (and beyond)? What is the paperwork required (for example from each lecturer) for this format?
- What would be the most appropriate file format for the course? (allowing conversion to other relevant format with a reasonable quality)
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About the file format (Eric Briantais)

- When choosing between the MP4, MOV, FLV, WMV and AVI containers, MP4 is the best option.
 - The complexity of the MOV container can cause devices to stall when playing video.
 - The FLV container is only supported by the Flash plugin, which is not supported by the new HTML5 standard and Apple mobile devices such as the iPhone. The WMV container requires specialized plugins and is generally only supported by Microsoft products such the Zune, or Silverlight.
 - The AVI container is not meant for web distribution, as it is targeted at desktop players (it is also not supported for web playback through our own players, but it is listed here to clear any confusion on the container). For your sampling frequency it is suggested that you maintain around 44.1 kHz for most of your videos
 - The MP4 container is almost universally supported: Apple, Microsoft, Flash, and HTML5 all offer support for MP4 (there are some outliers). On top of that MP4 can use the H.264 video codec and the AAC audio codec, compatibility wise they are the best choices for compressing your video. H. 264 video is supported by just about any player, browser, plugin and device available. It also offers one of the best algorithms for compressing your video on top of being freely available.
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- **VIDEO :MP4 / H264 1280x720 pixels 2500 kbps 19MB / minute**
 - **AUDIO : AAC 44.1khz**

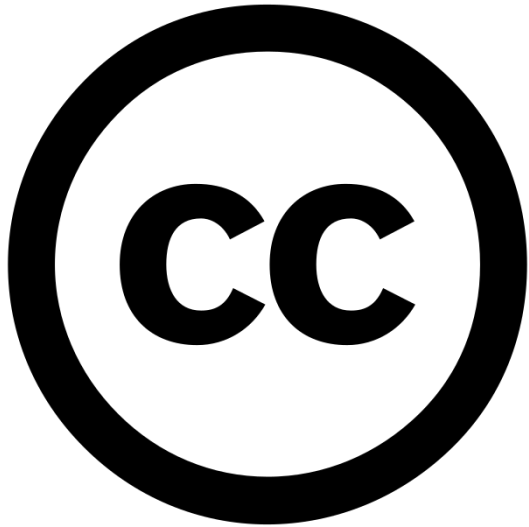
A comparison of MOOC platforms audiences (Eric Briantais)



Source : Coursera, edX, Iversity, FUN, MiriadaX, FutureLearn (consultation octobre 2015). Calculs : France Stratégie





Note 40 France Stratégie - 2015

The Creative Commons license







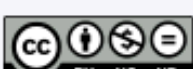


- Aim: give the right to distribute and re-use freely an otherwise copyrighted work.
- First proposed in 2002.
- Several version (from 1.0 to 4.0).
- See https://en.wikipedia.org/wiki/Creative_Commons_license
- *The CC licenses all grant the "baseline rights", such as the right to distribute the copyrighted work worldwide for non-commercial purposes, and without modification.*

Sharing rights

Icon	Right	Description
	Attribution (BY)	Licensees may copy, distribute, display and perform the work and make derivative works and remixes based on it only if they give the author or licensor the credits (attribution) in the manner specified by these.
	Share-alike (SA)	Licensees may distribute derivative works only under a license identical ("not more restrictive") to the license that governs the original work. (See also copyleft .) Without share-alike, derivative works might be sublicensed with compatible but more restrictive license clauses, e.g. CC BY to CC BY-NC.)
	Non-commercial (NC)	Licensees may copy, distribute, display, and perform the work and make derivative works and remixes based on it only for non-commercial purposes.
	No Derivative Works (ND)	Licensees may copy, distribute, display and perform only verbatim copies of the work, not derivative works and remixes based on it.

Types of licenses

Icon	Description	Acronym	Allows Remix culture	Allows commercial use	Allows Free Cultural Works	Meets 'Open Definition'
	Freeing content globally without restrictions	CC0	Yes	Yes	Yes	Yes
	Attribution alone	BY	Yes	Yes	Yes	Yes
	Attribution + ShareAlike	BY-SA	Yes	Yes	Yes	Yes
	Attribution + Noncommercial	BY-NC	Yes	No	No	No
	Attribution + NoDerivatives	BY-ND	No	Yes	No	No
	Attribution + Noncommercial + ShareAlike	BY-NC-SA	Yes	No	No	No
	Attribution + Noncommercial + NoDerivatives	BY-NC-ND	No	No	No	No

What does the course license need to allow?

- Attribution: most people will probably want it.
- Academic use: YES
- Commercial use: Not necessarily. Leave it open to each lecturer?
- Derivatives: Would be convenient to allow other lecturers (in Universities for example) to build on exist lectures...

Next meeting

- I will make a summary of our discussion and circulate it.
- During our next meeting I suggest that we discuss more in details the different platforms and suitable licenses.
- I will circulate a doodle poll to agree on a date.



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Thank you