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- © H5P is a plugin for existing publishing systems that enables the system to create interactive content like:
  - Interactive Videos, Presentations, Games, Quizzes and more
- © Currently supported: Wordpress, Moodle and Drupal.
- © Open source and free to use.
- © The solution is based on HTML 5 and Javascript.
- Actively developed.



https://h5p.org and https://h5p.com

#### H5P Content types



Accordion

Treate vertically stacked

expandable items

Collage

Create a collage of

multiple images



Course Presentation Create a presentation with interactive



#### Content Types



Agamotto

Create a sequence of

images that gradually

Column

Column layout for H5P

Content



Arithmetic Quiz Create time-based arithmetic quizzes



Audio Recorder Create an audio recording



Quickly generate bar and pie charts



Dialog Cards Create text-based

turning cards



Dictation Create a dictation with instant feedback



Create a form wizard with text export



Create image hotspot for users to find



Flashcards Create stylish and modern flashcards



Guess the Answer Create an image with a question and answer



Iframe Embedder set of files



Hrasmus

Create an image with multiple info hotspots



Image Juxtaposition Create interactive images



Image pairing Drag and drop image matching game



Image Sequencing Place images in the correct order



Image Slider Easily create an Image



Impressive Present... Create a slideshow with parallax effects



Mark the Words Create a task where users highlight words



Memory Game Create the classic image pairing game



Multiple Choice Create flexible multiple choice questions



Create personality



Create a questionnaire to receive feedback



Quiz (Question Set) Create a sequence of various question types



Single Choice Set Create questions with one correct answer



Speak the Words Answer a question using



Speak the Words Set A series of questions answered by speech



Summary Create tasks with a list







True/False Ouestion auestions



Virtual Tour (360) Create interactive 360 environments



Interactive Video with interactions



Course Presentation with interactive slides



Create dilemmas and

self paced learning



Advanced fill the bl... Fill in the missing words

https://h5p.org/content-types-and-applications





- © Installation of H5P plugin rather easy: <a href="https://h5p.org/moodle">https://h5p.org/moodle</a>
- © Two modes of installation:
  - Selected content types installed locally on Moodle portal
  - All content types available, downloaded from H5P site
- © Possibility of keeping content on H5P hosting site (paid migration plan to commercial **h5p.com** hosting)
- © H5P.org vs H5P.com: https://h5p.org/node/206472

## H5P plugin in Moodle



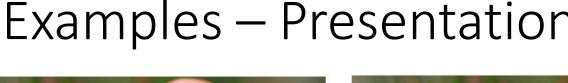
- Sust one Moodle activity to install: mod\_hvp
- © Submodules worth adding:
  - h5p-editor-php-library
  - h5p-php-library
  - h5p-php-report
- © Provides integration with Moodle gradebook for grading completed activities.
- **©** Just one activity:
  - Which allows to select one of available H5P Content types
  - Each content type (kinds of "tasks") can be further configured and edited

## Interesting features

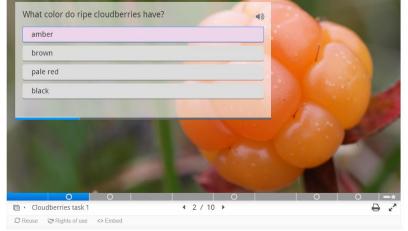


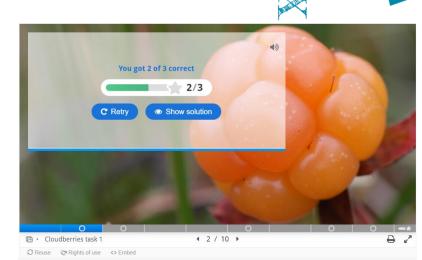
- © Each configured content type can be exported, and re-uploaded when creating new activities.
- Support for mathematical formulas in LaTeX format (growing with time, previously not all content types supported this) <a href="https://h5p.org/november-2018-release-note">https://h5p.org/november-2018-release-note</a>
- Interactive Video features:
  - In-movie places for viewer interaction (time-limited answer, paused answer)
  - Options: allow/disallow dowload of video, embedding, copyright info button

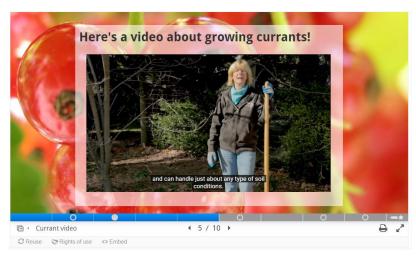
## Examples – Presentation











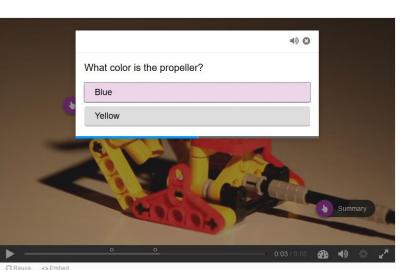


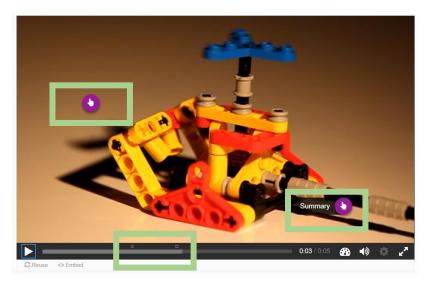


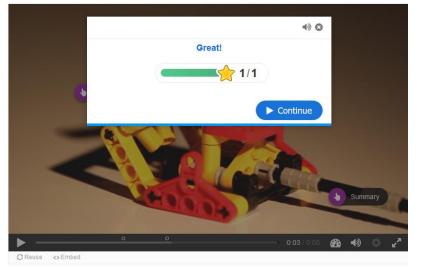
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# Examples – Interactive Video







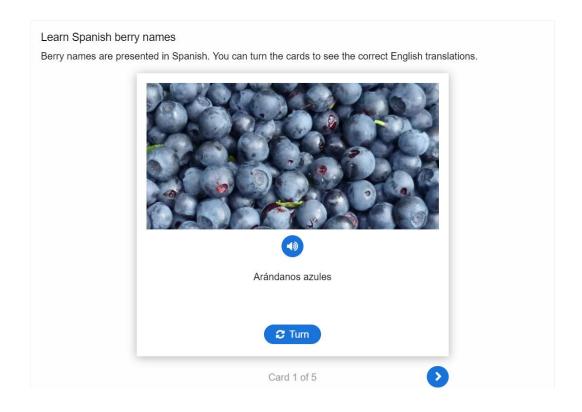


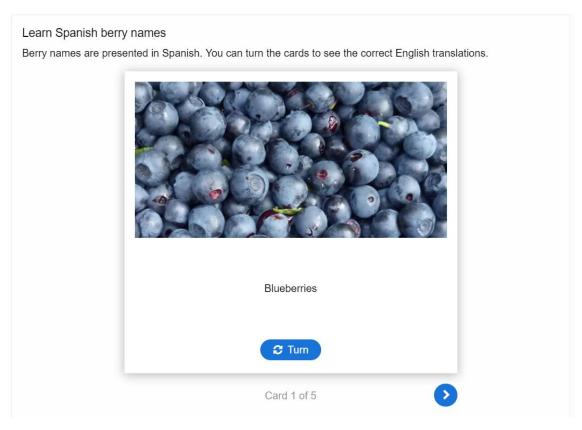


Source: <a href="https://edu.p.lodz.pl/mod/hvp/view.php?id=9823">https://edu.p.lodz.pl/mod/hvp/view.php?id=9823</a>

# Examples – Vocabulary learning



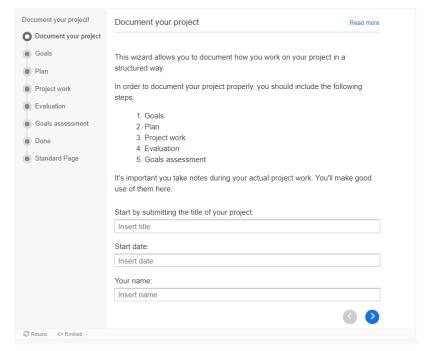


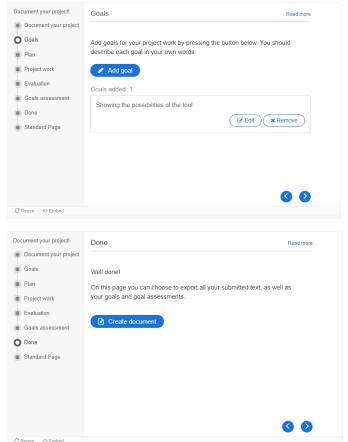


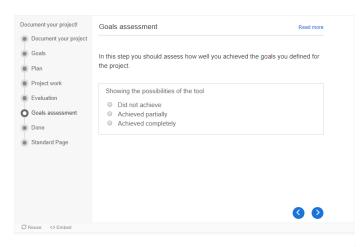
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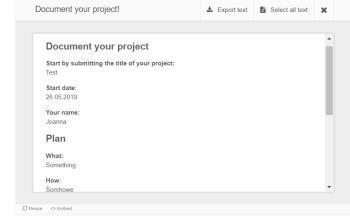
#### Examples – Documentation







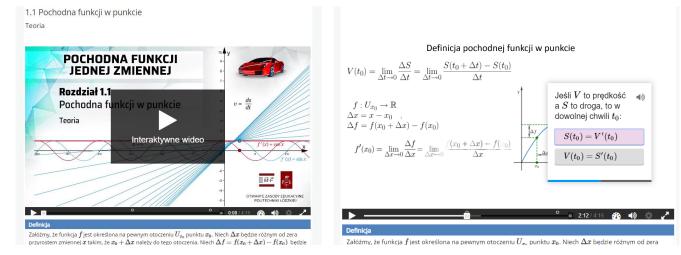




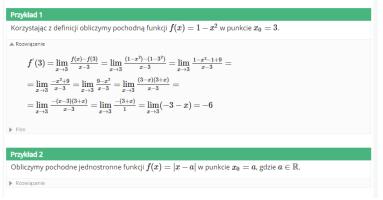
## Practical Examples – Maths Course #1







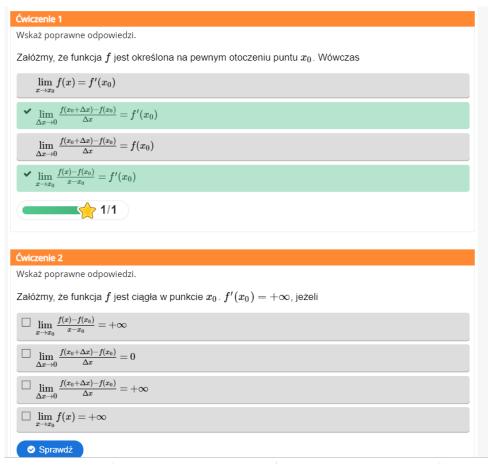
Source: https://port.edu.p.lodz.pl/mod/book/view.php?id=1090&chapterid=717

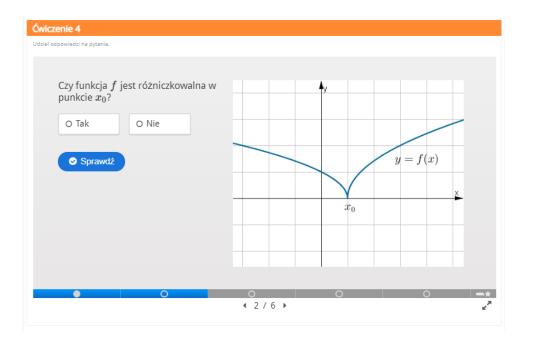


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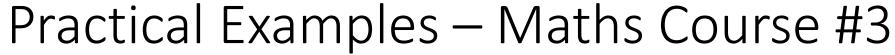
## Practical Examples – Maths Course #2



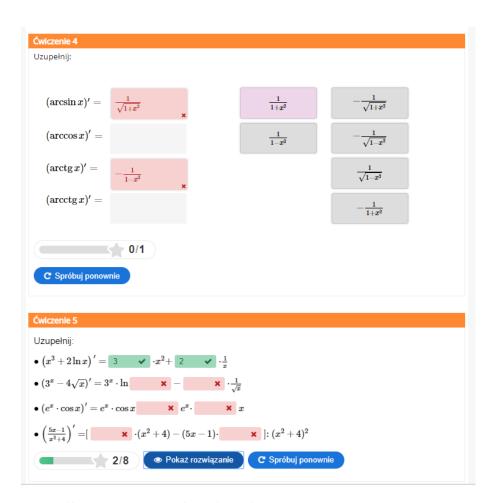


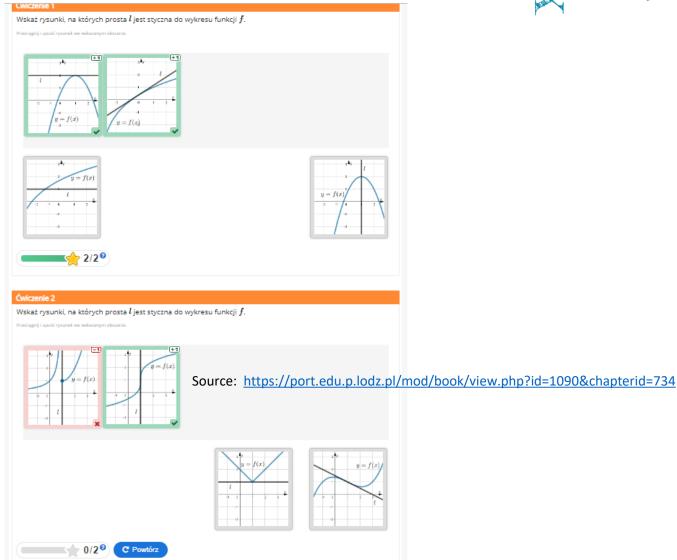


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Source: <a href="https://port.edu.p.lodz.pl/mod/book/view.php?id=1090&chapterid=760">https://port.edu.p.lodz.pl/mod/book/view.php?id=1090&chapterid=760</a>





© Content author guide <a href="https://h5p.org/documentation/for-authors">https://h5p.org/documentation/for-authors</a>

© Test-drive H5P on-line (requires creation of free account) <a href="https://h5p.org/testdrive-h5p">https://h5p.org/testdrive-h5p</a>

#### Practical task



- 1. Search in Google: small mp4 example
- 2. Download "small.mp4" file with LEGO helicopter (right-click, save as)
- 3. Visit <a href="https://h5p.org/testdrive-h5p">https://h5p.org/testdrive-h5p</a> or <a href="https://bit.ly/rigah5p">http://bit.ly/rigah5p</a>
- 4. Select content type: Interactive Video
- 5. Provide Title: Short film
- 6. Add / upload video file "small.mp4"
- 7. Add interaction: Single choice set (drag & drop)
- 8. Display time: 0:03 + Pause video
- 9. Q: What color is the propeller? A.1: Blue A.2: Yellow
- 10. Remove second question press pone
- 11. Confirm CAPTCHA, then press [Save]

# Interactive Video in H5P — Considerations



- © Required multimedia codecs should be supported by browser
  - Windows typically just works
  - IOS, OS X typically just works
  - Linux depends on configuration, or distribution defaults
- Real life example:
  - Fedora Linux without non-free codeds: videos didn't work (=)
  - After installation of packages with codecs: video did work 😂
- Storage considerations:
  - the longer the video the more megabytes it takes
  - problems with doing course backups



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