

FOSS for Developing Interactive Resources with special reference to

LUMI

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In this session...

- Interactive Resources
- FOSS
- H5P
- Lumi
- Demo
- Q and A

Interactive Resources

- Interactivity
 - Openness
 - Freedom
 - Flexibility
 - Cost-saving
 - Security and better stability

FOSS

- Free and Open-Source Software
 - User control
 - Openness
 - Freedom
 - Flexibility
 - Cost-saving
 - Security and better stability

FOSS-Examples

- Libre Office and Apache Open Office
- GIMP (image editing)
- Blender (3D modelling work)
- Shotcut (Video editor)
- Krita (art tool for 2D animation and digital painting)
- Audacity (Audio recorder, editor)
- H5P
- Lumi (offers a collection of tools to create, edit and share digital content – H5P editor)

H5P

- Content authoring tool
- Free and Open-Source
- Create, Share and Reuse
- HTML5
- More than 50 Content Types
- Responsive
- CMS / LMS

H5P – Content types

Which elements do these symbols represent?

Drag each label to its position

Lead

Tungsten

Mercury

Silver

W

Hg

Pb

Ag

Check

H5P – Content types periodic table format

| H5P Content types | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------------------------------|--|------------------------------------|---------------------------------|--------------------------|----------------------------------|---------------------------------|------------------------------|----------------------------|-----------------------------|-------------------------------|-----------------------------|-------------------------------|-----------------------------------|-------------------------------|--------------------------------|---------------------------------|
| Timeline TI | | | | | | | | | | | | | | Speak the word set Spw | Speak the word Sp | Dictation Di | Audio Recorder Ar |
| Accordion Ac | | | | | | | | | | | | | Column Co | Course Presentation Cp | Interactive Book Ib | Interactive Video Iv | Branching Scenario Bs |
| Agamotto Am | Arithmetic Quiz Aq | Complex fill in the blanks CoF | True/False Questions T/F | Documentation tool Dt | Essay Es | Fill in the blanks FiB | Guess the Answer Ga | Multiple Choice Mc | Questionnaire Qu | Single Choice Sc | Summary S | Crossword Cw | Image Choice Ic | Sort the paragraphs Stp | Cornell Notes Cn | Structure Strip Ss | |
| Collage Co | Virtual tour Vt | Find the words Fw | Flash Cards Fc | Find the Hotspot Fhs | Memory Game Mg | Multiple Hotspot Mhs | Drag and Drop D&d | Drag the words Dt | Image Hotspot Ih | Image Pairing Imp | Image Sequencing Is | Mark the Words Mw | Personality Quiz Pq | Ar Scavenger ARs | | | |
| Chart Ch | Advent Calendar Acd | | | | | | | | | | | | | | | | |
| Dialogue Cards Dc | | | | | | | | | | | | | | | | | |
| Image Slider Isl | | | | | | | | | | | | | | | | | |
| Image juxtaposition IJx | | | | | | | | | | | | | | | | | |

| | | |
|--|--|---|
|  Presentation tools Just to present content (images, text) |  Edutainment To present content as task to engage learners |  Tasks To present assesment tasks |
|  Presentat with tasks To present content with tasks |  Audio based To present audio based content |  Beta version |

H5P Content types in periodic table style display © 2020 by Sushumna Rao is licensed under CC BY 4.0. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/> 

Experience Live table

Lumi

- An application to create H5P interactive content
- Available as **Desktop app** and Cloud Hub
 - Download from Appstore (it's free) to use offline (locally on your computer)
- Save and Share with others as
 - A H5P file
 - an HTML file – with reporting option , Analytics – still in it's early stage
 - SCORM package
- Open existing H5P files to edit/reuse/repurpose



Lumi - Interactive Content with H5P

S. Rettig

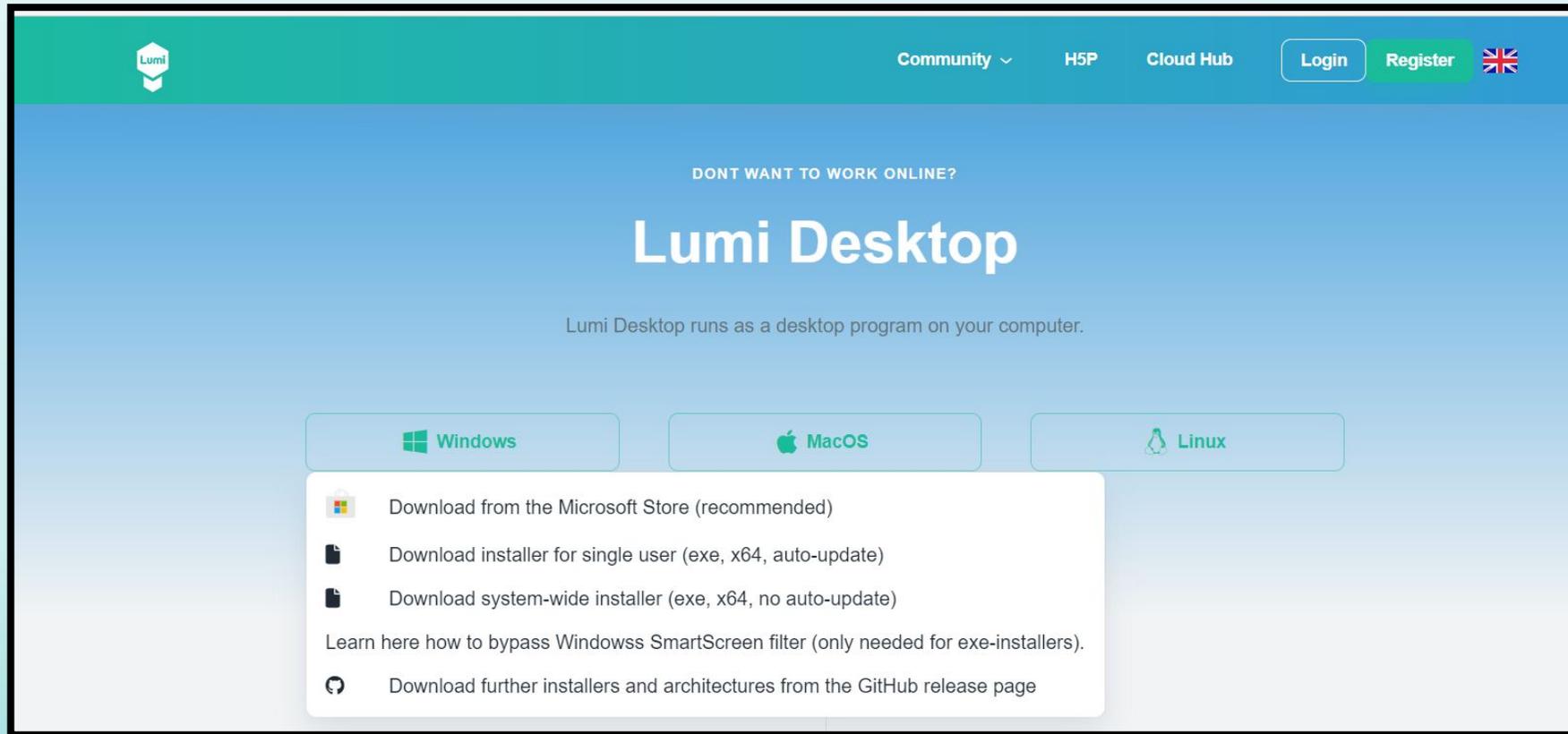
★★★★★ 1 | Education

Get in Store app

Free

Lumi - Download

<https://app.lumi.education/#download>



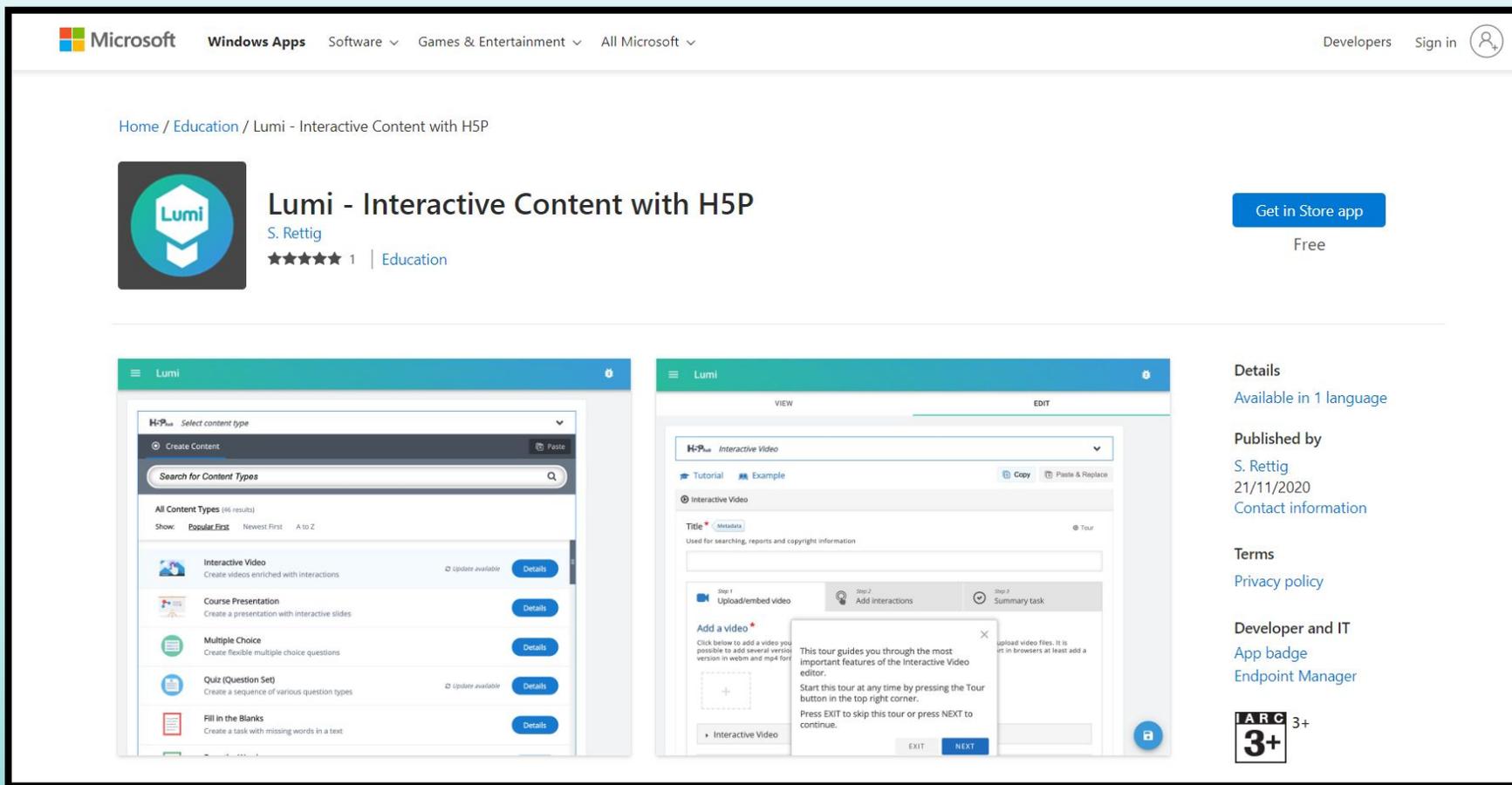
The screenshot shows the Lumi Desktop download page. At the top, there is a teal navigation bar with the Lumi logo on the left and links for 'Community', 'H5P', 'Cloud Hub', 'Login', and 'Register' on the right. A UK flag is also visible. Below the navigation bar, the text 'DONT WANT TO WORK ONLINE?' is displayed in all caps. The main heading is 'Lumi Desktop' in a large, white font. Below this, a subtitle reads 'Lumi Desktop runs as a desktop program on your computer.' There are three buttons for operating systems: 'Windows', 'MacOS', and 'Linux'. The 'Windows' button is selected, and a dropdown menu is open, showing the following options:

- Download from the Microsoft Store (recommended)
- Download installer for single user (exe, x64, auto-update)
- Download system-wide installer (exe, x64, no auto-update)

Below these options, there is a link: 'Learn here how to bypass Windows SmartScreen filter (only needed for exe-installers).' At the bottom of the dropdown, there is another option: 'Download further installers and architectures from the GitHub release page'.

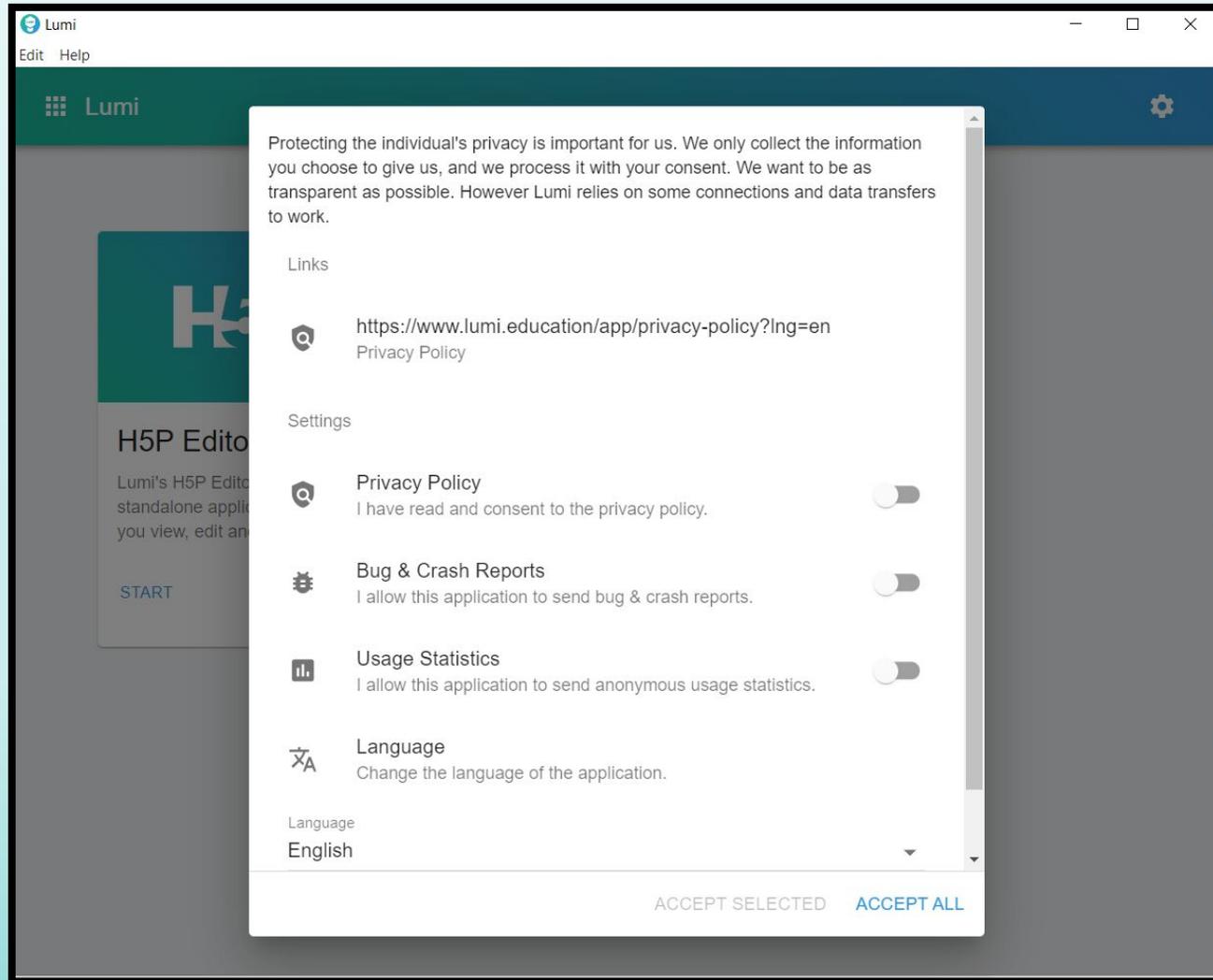
Lumi – From app store

<https://app.lumi.education/#download>

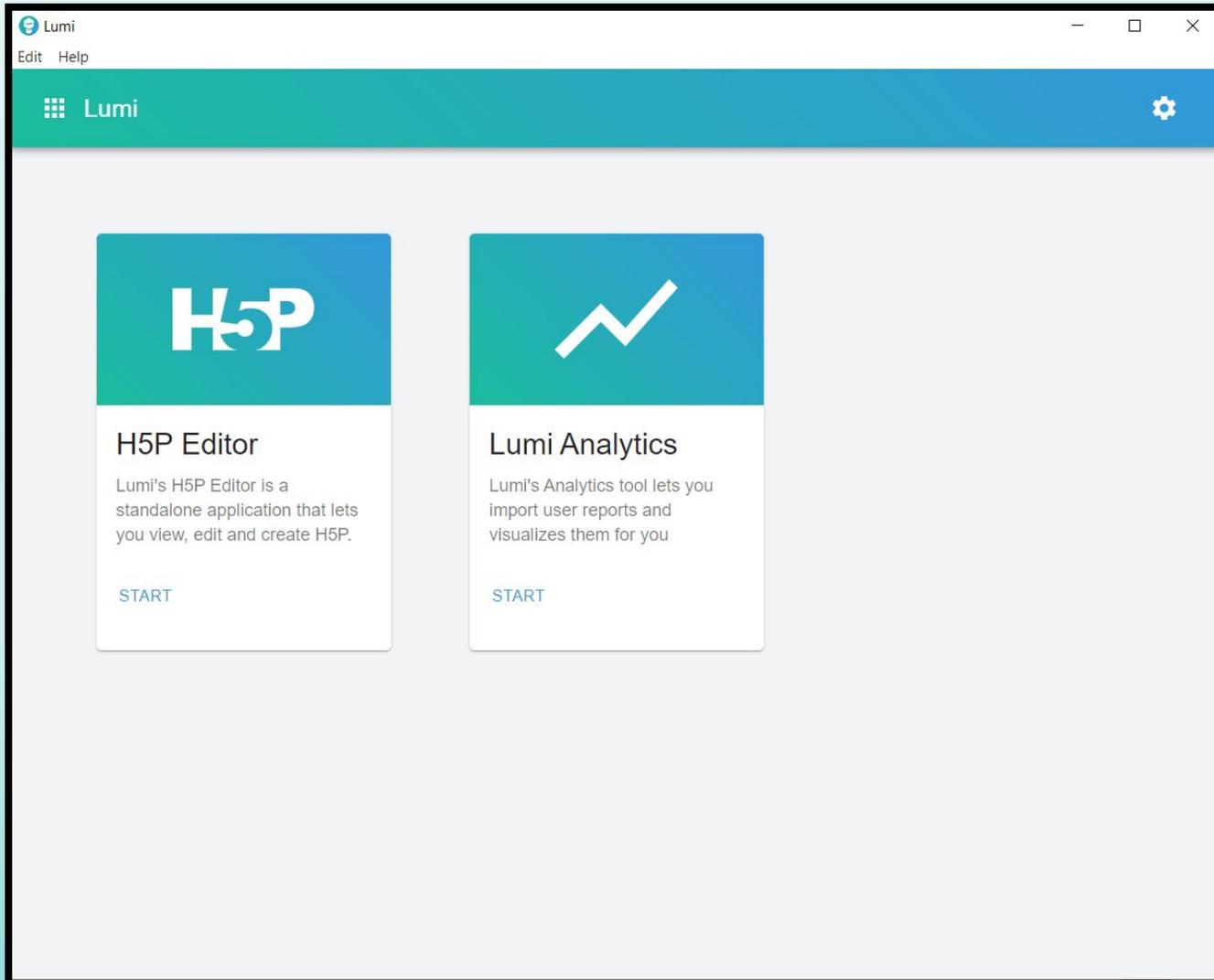


The screenshot shows the Microsoft Windows App Store page for the application "Lumi - Interactive Content with H5P". The page features the Microsoft logo, navigation links for "Windows Apps", "Software", "Games & Entertainment", and "All Microsoft". In the top right corner, there are links for "Developers" and "Sign in". The main content area displays the app's icon, name, developer "S. Rettig", a 1-star rating, and the category "Education". A prominent blue button says "Get in Store app" with the word "Free" below it. Below the app information are two preview images: the left one shows the "Create Content" interface with a search bar and a list of content types like "Interactive Video", "Course Presentation", "Multiple Choice", "Quiz (Question Set)", and "Fill in the Blanks"; the right one shows the "VIEW" and "EDIT" screens for an "Interactive Video" with a tour overlay. To the right of the preview images are links for "Details", "Available in 1 language", "Published by S. Rettig" (dated 21/11/2020), "Contact information", "Terms", "Privacy policy", and "Developer and IT" (listing "App badge" and "Endpoint Manager"). At the bottom right, there is an "ARC 3+" rating badge.

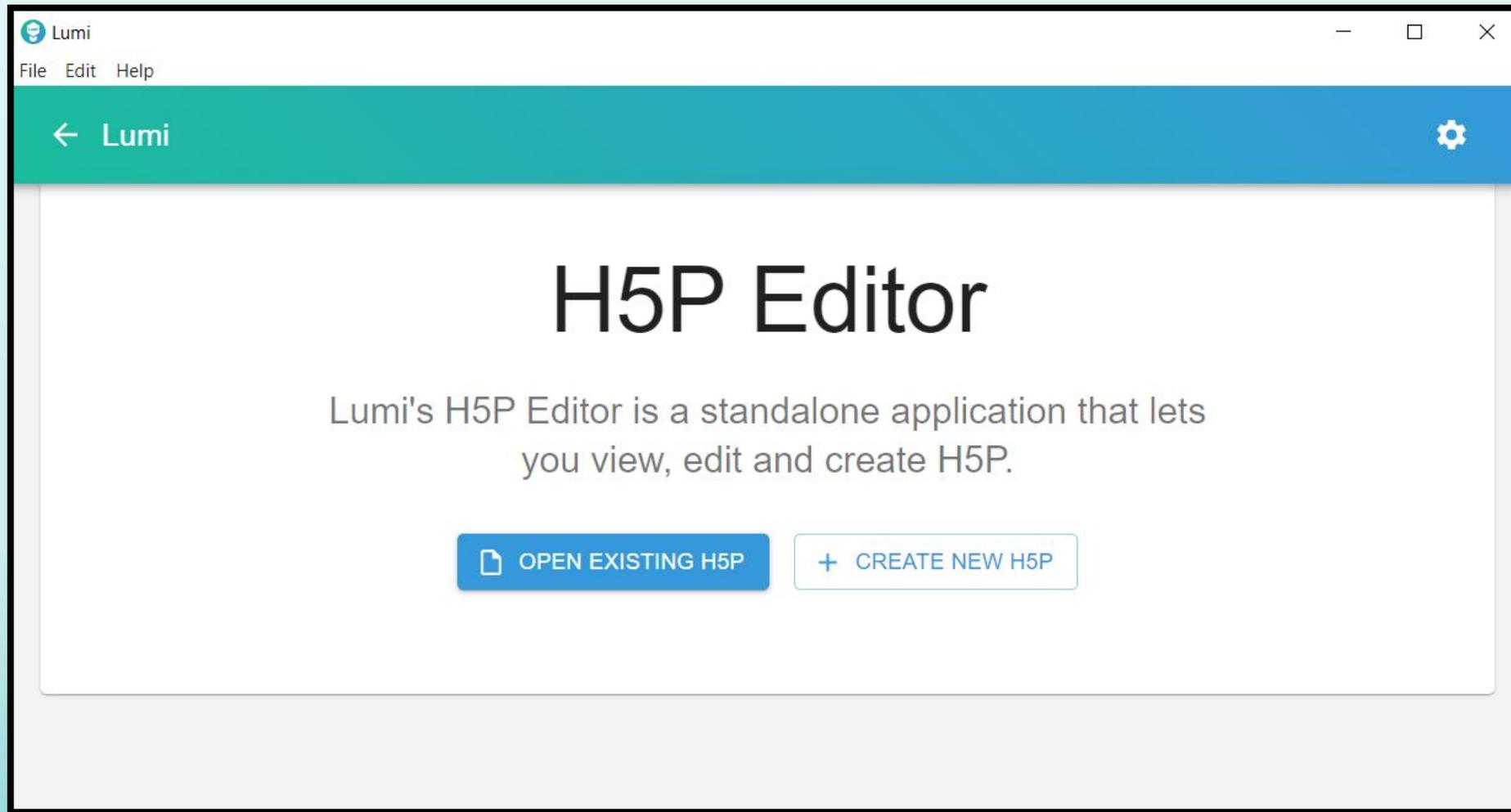
Lumi – Open App on desktop



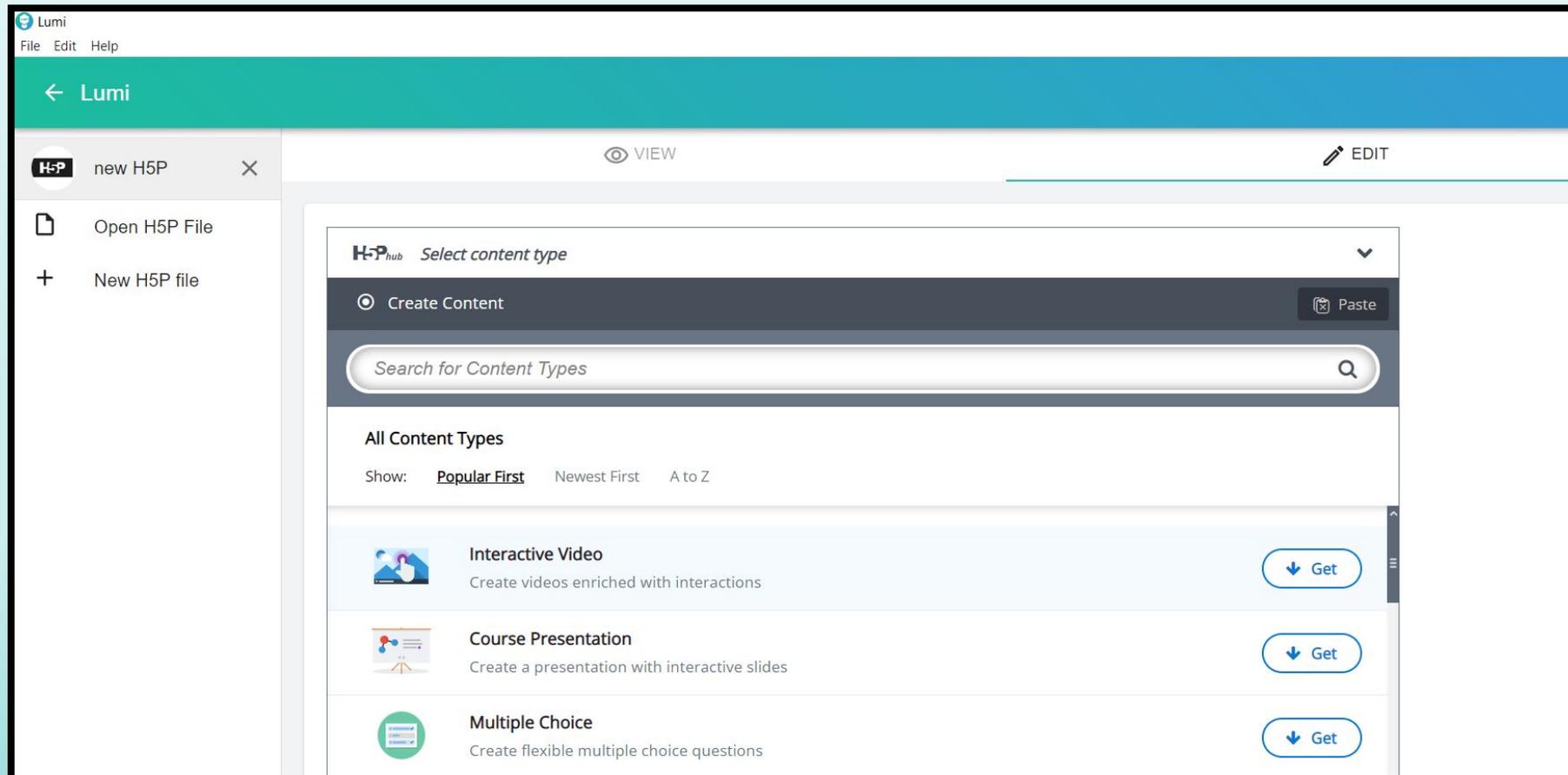
Lumi – Choose H5P Editor



Lumi – Create New H5P



Lumi – H5P Editor Interface



H5P Content types - Get and Install

- When you open Lumi for the first time, you see **Get** button next to Content type
- Click on Get to get the H5P Libraries install and use (be connected)
- Once installed click on Use
- Sometimes Updates may be available, click on details and update content type to use

Lumi – H5P Editor – Get content types and Install

The screenshot displays the Lumi H5P Editor interface. At the top, there is a teal header with the text 'Lumi' and a settings gear icon. Below the header, a dark blue bar contains the text 'H5P hub Select content type' and a dropdown arrow. The main content area is titled 'Create Content' and features a search bar with the text 'mark'. A 'Paste' button is visible in the top right of this section. The central focus is the 'Mark the Words' content type, which includes a purple-bordered icon showing a document with highlighted text. To the right of the icon, the text reads: 'Mark the Words', 'H5P Group', and 'Mark the words allows content designers to create textual expressions with a defined set of correct words. The end user highlights words according to the task description and is given a score. For the editor it is super easy to create a click the words challenge. The editor types in t... [Read more](#)'. Below this text is a 'Content Demo' button. At the bottom right, there is a blue 'Install' button with a downward arrow. On the left side, a sidebar contains a list of actions: 'new H5P', 'Open H5P File', and 'New H5P file'. The window title bar at the top left shows 'Lumi' and standard window controls.

Lumi – H5P Editor – Get content types, Install and Use

The screenshot shows the H5P Editor interface for selecting content types. At the top, there is a header with the H5P logo and the text "Select content type". Below the header, there is a navigation bar with "Create Content" and a "Paste" button. A search bar is located below the navigation bar, containing the text "Search for Content Types". The main content area displays a list of content types. The first item is "Mark the Words" by the "H5P Group". It features a purple-bordered icon showing a grid of text with some words highlighted in blue. To the right of the icon, the title "Mark the Words" and the group name "H5P Group" are displayed. Below the title, there is a description: "Mark the words allows content designers to create textual expressions with a defined set of correct words. The end user highlights words according to the task description and is given a score. For the editor it is super easy to create a click the words challenge. The editor types in t... [Read more](#)". Below the description is a "Content Demo" button. At the bottom of the page, there is a large blue "Use" button.

H5P hub Select content type

Create Content Paste

Search for Content Types

←



Mark the Words
H5P Group

Mark the words allows content designers to create textual expressions with a defined set of correct words. The end user highlights words according to the task description and is given a score. For the editor it is super easy to create a click the words challenge. The editor types in t... [Read more](#)

Content Demo





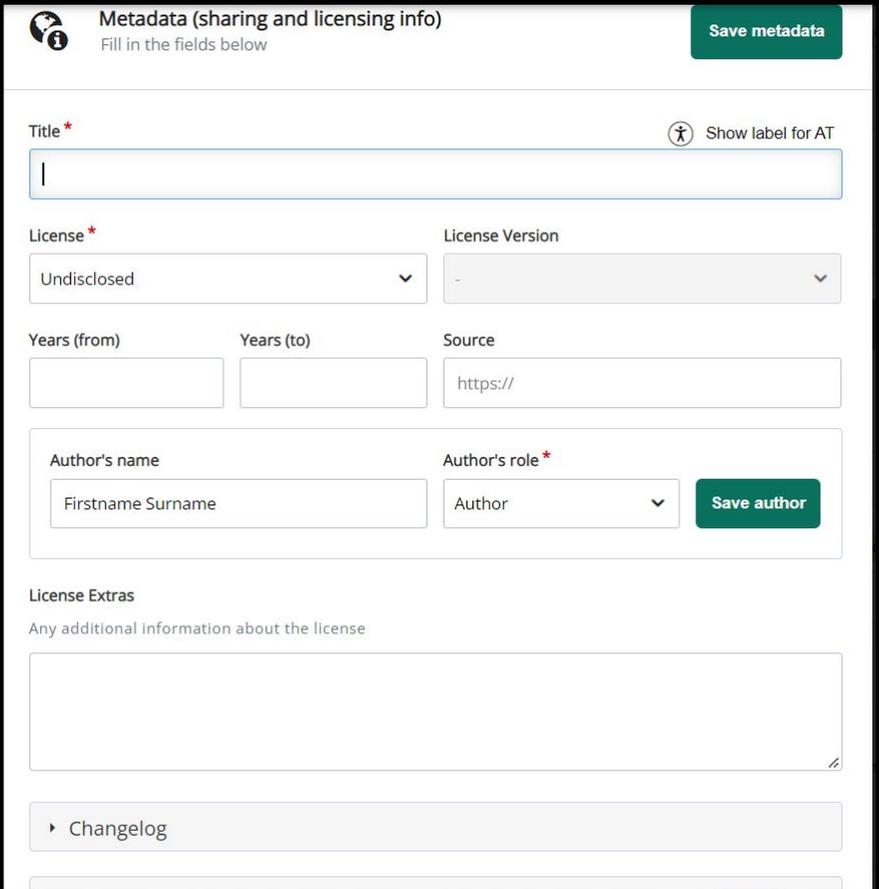
Use

H5P Editor Options

- Depending on the content type you will have various settings, few common settings are
 - Title
 - Behavioural Settings, (differs for each content type)
Over all Feedback etc.

H5P Editor – Metadata

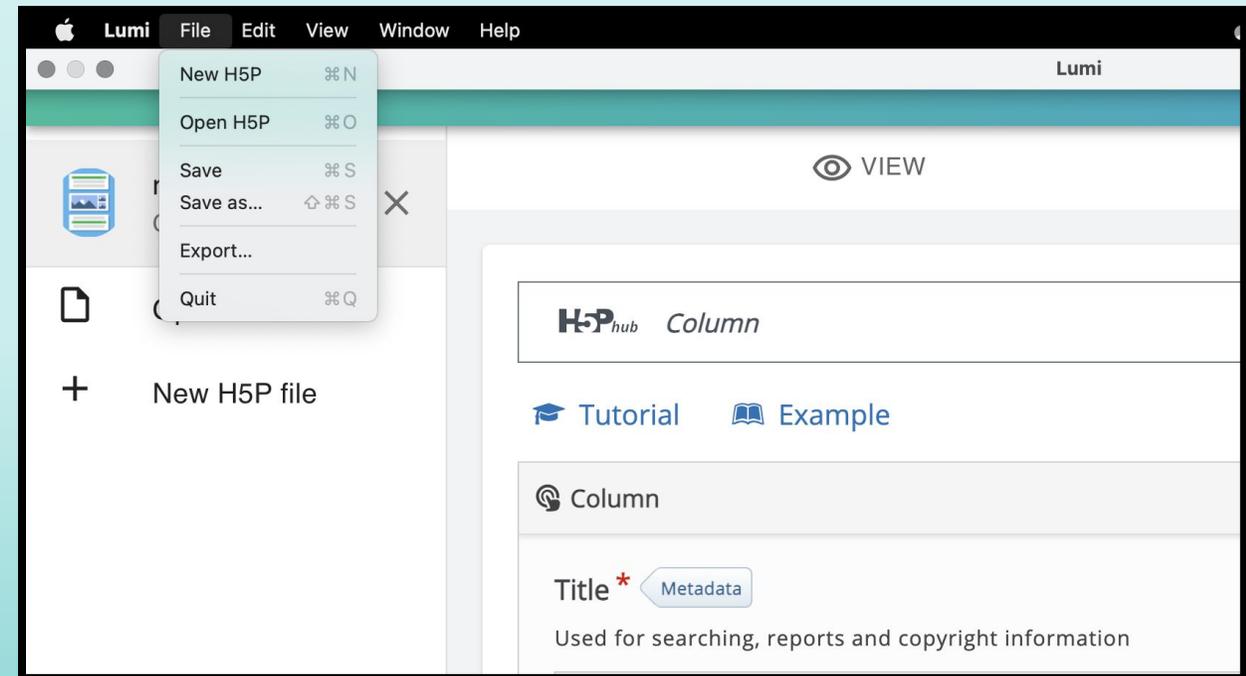
- Add Metadata
 - to attribute if reusing or add author and license details



The screenshot shows the 'Metadata (sharing and licensing info)' form in the H5P Editor. The form is titled 'Metadata (sharing and licensing info)' and includes the instruction 'Fill in the fields below'. A green 'Save metadata' button is located in the top right corner. The form contains several fields: 'Title*' (a text input field with a 'Show label for AT' icon), 'License*' (a dropdown menu currently set to 'Undisclosed'), 'License Version' (a dropdown menu currently set to '-'), 'Years (from)' and 'Years (to)' (two empty text input fields), 'Source' (a text input field containing 'https://'), 'Author's name' (a text input field containing 'Firstname Surname'), 'Author's role*' (a dropdown menu currently set to 'Author'), and a green 'Save author' button. Below these fields is a 'License Extras' section with the text 'Any additional information about the license' and a large text area. At the bottom, there is a 'Changelog' section with a right-pointing arrow.

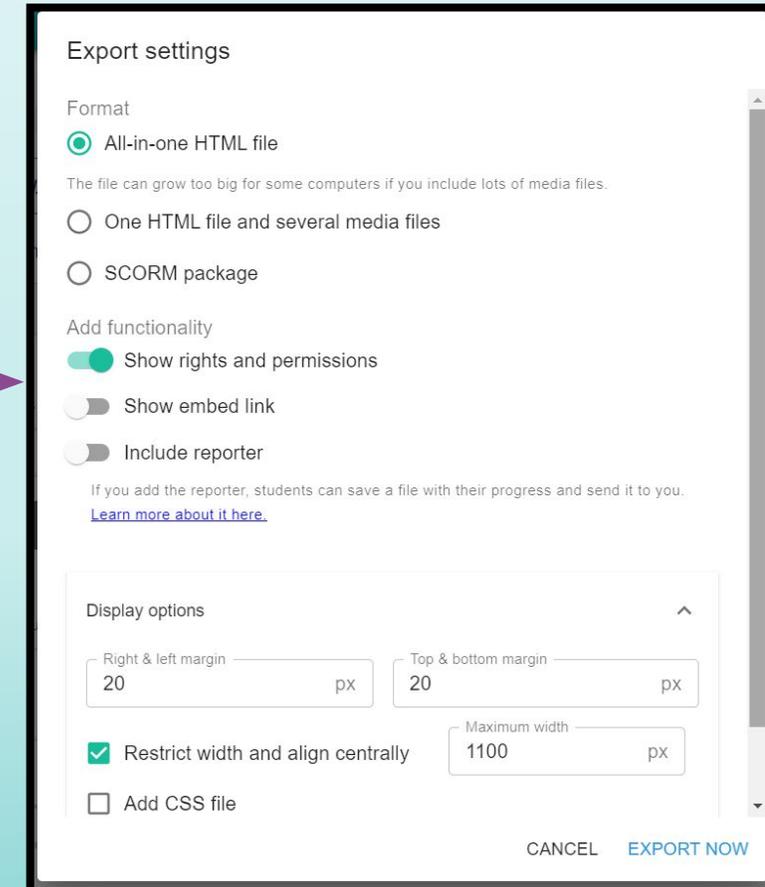
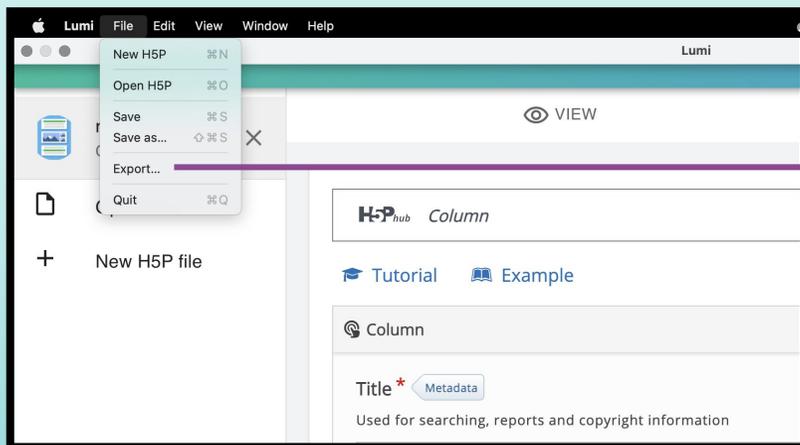
Save H5P file

- Click on File and Save as .h5p file. (This is the file that will help you to edit in future.)
- These .h5p files can be uploaded directly to LMS/CMS or H5P supported Website

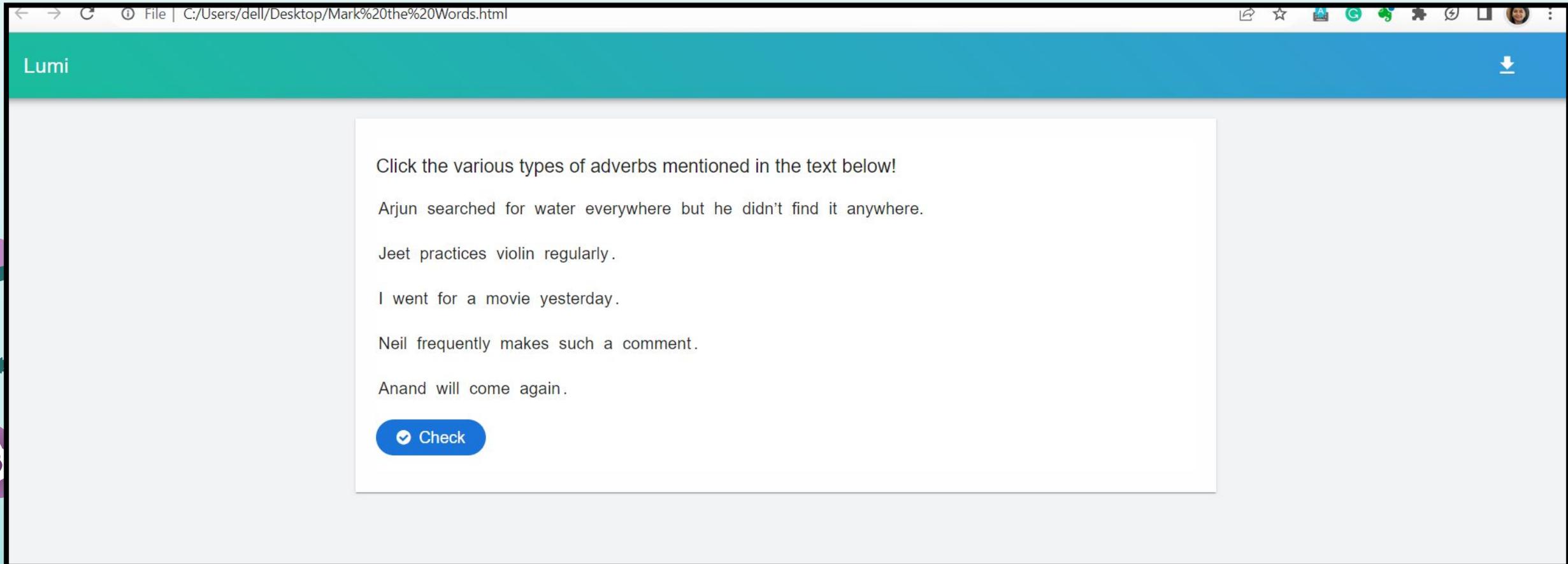


Export H5P file

- If you want to distribute content as HTML file then click on Export from File Menu
- Choose desired options and Export
(*Include reporter to get user reports)



User view – HTML file with Reporter



The screenshot shows a web browser window with the address bar displaying "File | C:/Users/dell/Desktop/Mark%20the%20Words.html". The browser's title bar is "Lumi" and the page content is as follows:

Click the various types of adverbs mentioned in the text below!

Arjun searched for water everywhere but he didn't find it anywhere.

Jeet practices violin regularly.

I went for a movie yesterday.

Neil frequently makes such a comment.

Anand will come again.

[✓ Check](#)

Before creating...

- Understand the needs and preferences of students /learners /environment
- Plan and map content topics and formats to the curriculum and learning objectives
- Develop interactive and engaging content to enhance student involvement
- Ensure content is presented in a language and format accessible to diverse learners

Before we see Demo

- Utilise Feedback option of H5P content types
 - Feedback options may differ for each content type
- Whenever possible
 - Use hints to give learners a chance to answer correctly
 - Enable retry option
- For better understanding
 - Use self-explanatory and easy to learn tutorials provided in the editor
- Always check for accessibility

Help and References

- <https://h5p.org/>
- <https://h5pcatalogue.in/>
- https://www.youtube.com/watch?v=muN0cZ_wWXk
- <https://www.youtube.com/watch?v=nnDqspM5a5Q>
- <https://app.lumi.education/>

Q and A

Thank You!

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<https://e-ology.blogspot.com>