

# Development of eContent for Online Course

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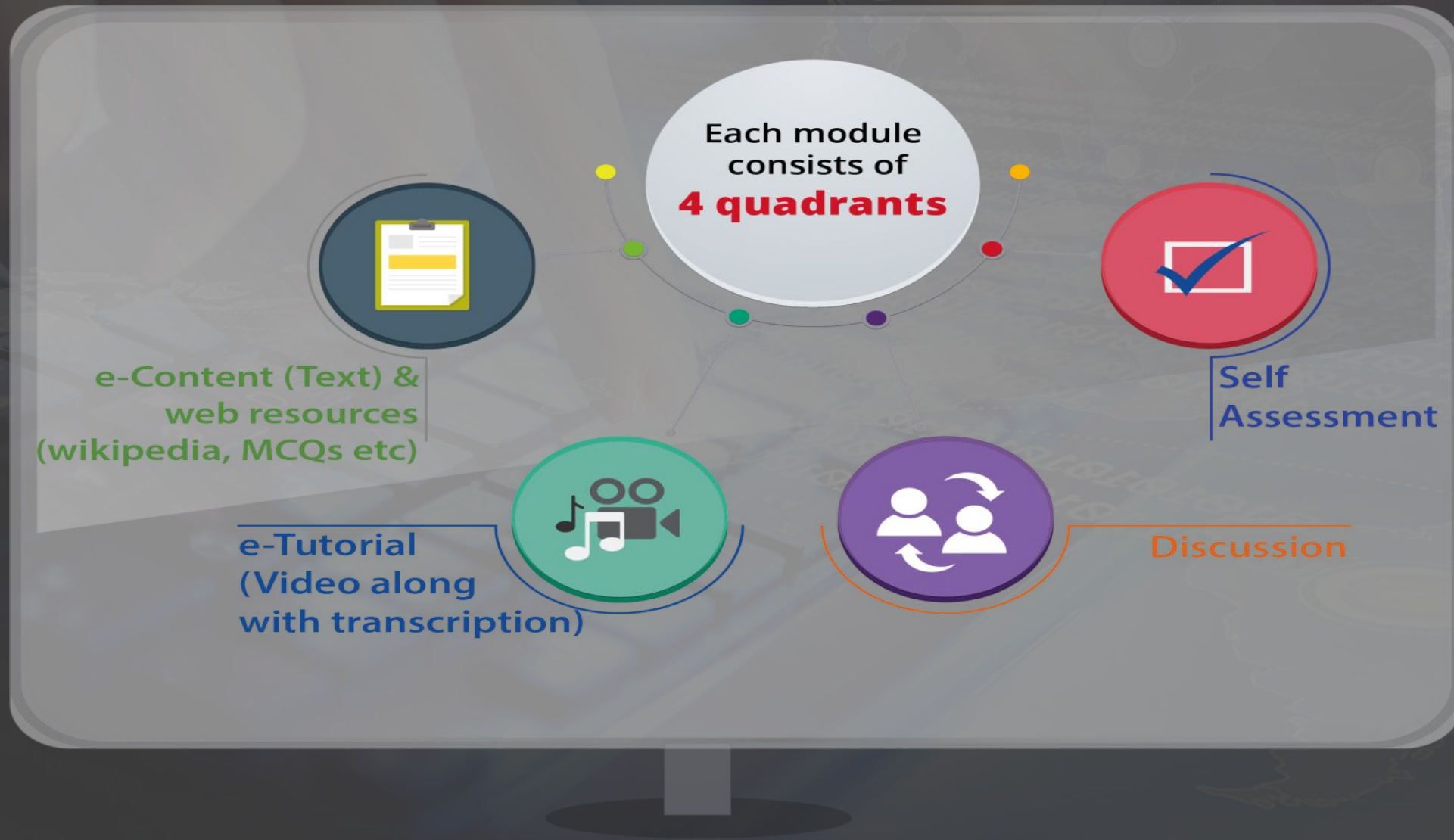
# eContent?

- ❖ eContent is any form of learning material available digitally that can be used by a learner to achieve related learning objectives.
- ❖ eContent are e-text, video, audio/voice narration, music, sound effects, images and graphics; singly or in combination.

# Need of eContent in Online Course?

- ❖ helps engage different parts of the learners' brain, thus reducing the cognitive load and making students more attentive.
- ❖ makes the complex concepts easy to understand and makes learning fun
- ❖ ignites the curiosity of learners and encourages them to explore the concept further

# Four Quadrant Approach



# e-Content for Teaching-learning

Modalities to use eContent in Teaching-learning

- Supplementary
- Complimentary
- Integration
- Infusion

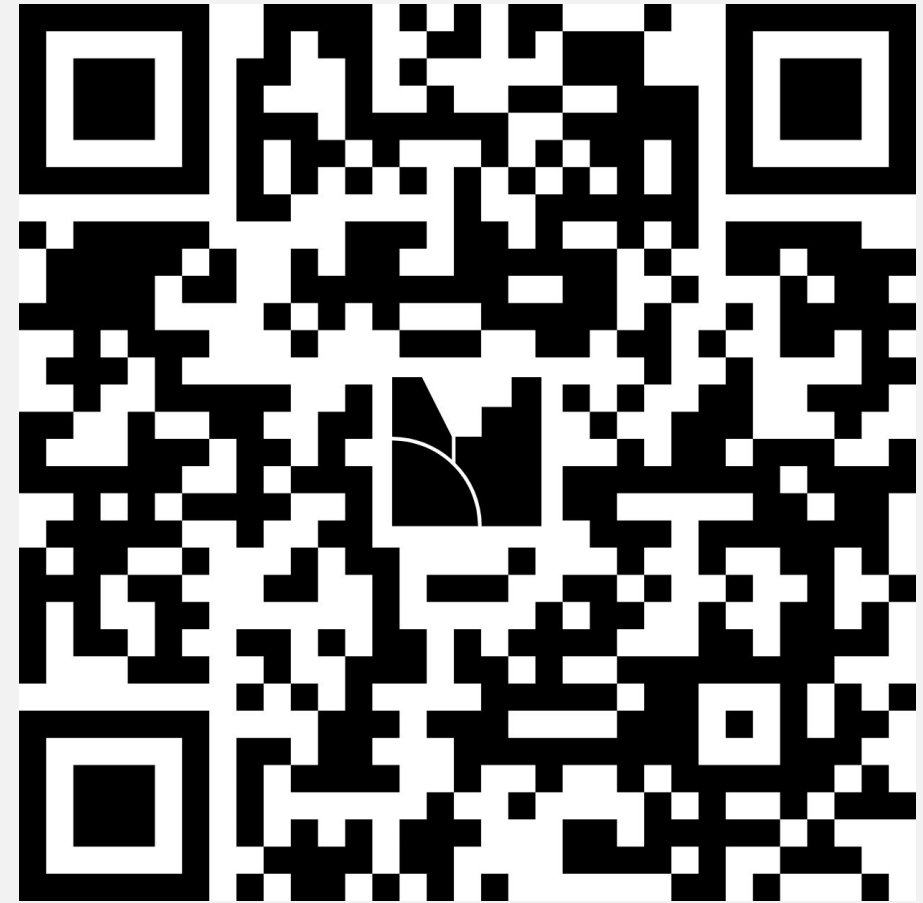
**eContent may also be categorised as-**

- ❖ Direct Teaching
- ❖ Supported Teaching
- ❖ Self-Learning

# Activity 1

"Mention two forms of eContent that you are aware of."

<https://www.menti.com/aleo93szdewy>



# Forms of eContent?



# eText

- ❖ eText is one of the primary means by which we communicate in academia or for pleasure
- ❖ eText is a general term for any document that is read in digital form, and especially a document that is mainly text.
- ❖ Examples- eBook,

# Images

- ❖ In contrast to text, images—still and moving—are a powerful tool for communication.
- ❖ They are concise—several pages of text can be encapsulated by one image

## Types of Images and visuals

- ❖ Photos – both custom photos and stock photos
- ❖ Graphics and diagrams
- ❖ **Infographics**
- ❖ Charts and graphs
- ❖ Maps and plans
- ❖ GIFs – short animated images without sound

# Infographics

- Infographics are graphic visual representations of information, data, or knowledge intended to present information quickly and clearly.
- “a good infographic is worth a thousand words”

## Types of Infographics

- Timeline infographic
- Process infographic
- Informational infographic
- Map infographic
- List infographic
- Comparison infographic
- Flowchart infographic

# Interactive

- ▶ Interactive Resources simply refers to the e-Resources which show content based on user input.
- ▶ To provide opportunities for active participation and learners can comment and generate discussion around the content

## Types of Interactive

- Quizzes
- Interactive Graphics
- Interactive Videos
- Interactive e-books
- Interactive Polls
- Interactive surveys

# Process of eContent Development

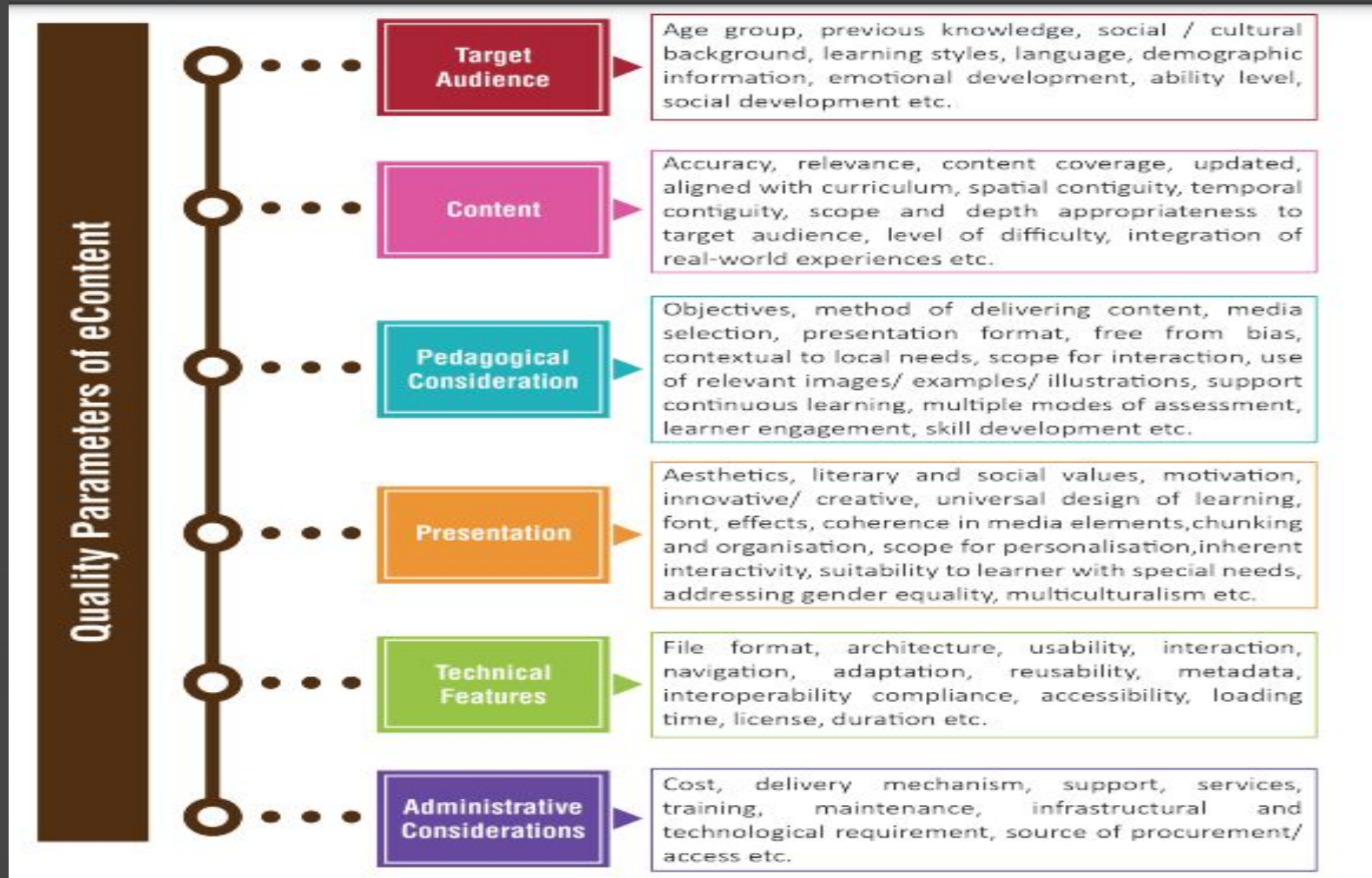
## Stages in Development of eContent

**Pre-Development stage** (*idea generation, research on needs of target groups, selection of content, and appropriate forms of eContent*)

**Development Stage** (*Parameters to be considered while developing eContent*)

**Post-Development stage** (*editing of eContent by adding visuals and sound music and sound effects. After editing, eContent obtains feedback from experts and target groups. After feedback if required modification, eContent will be modified*)

# Parameters to be considered ...



# Digital Tools for eContent Development

Forms of eContent	FOSS	Freemium	Premium
Text	Word Processor		
Image	GIMP		
Infographics	Canva, Piktochart		
Audio	Audacity		
Video	Openshot		
Interactive Video	H5P/ LUMI		
Animation	Scratch		
Simulation	PhET		

# INTERACTION IN ONLINE COURSE

- ❖ Purpose of using discussions in an online course is to provide opportunities for students to interact with each other, the content, and the instructor. Discussions in online courses are primarily asynchronous.
- ❖ **Asynchronous** is anytime, anywhere learning but not connected on real time, for example, emails, SMS, MMS, surfing e-content on DIKSHA, Groups, Discussion Forum etc.
- ❖ A discussion forum is a communication tool for dialogue in an online course.
- ❖ They can be initiated with a structured post and categorized along a message thread.

# Discussion Forum in Online Course

- ❖ Discussion forum may be used as a platform for peer-to-peer evaluation.
- ❖ a space to debate the ethical issues
- ❖ **To create opportunities for and encourage the continuation of peer-to-peer interactions**

# INTERACTION IN ONLINE COURSE

Modes i.e. Synchronous and Asynchronous.

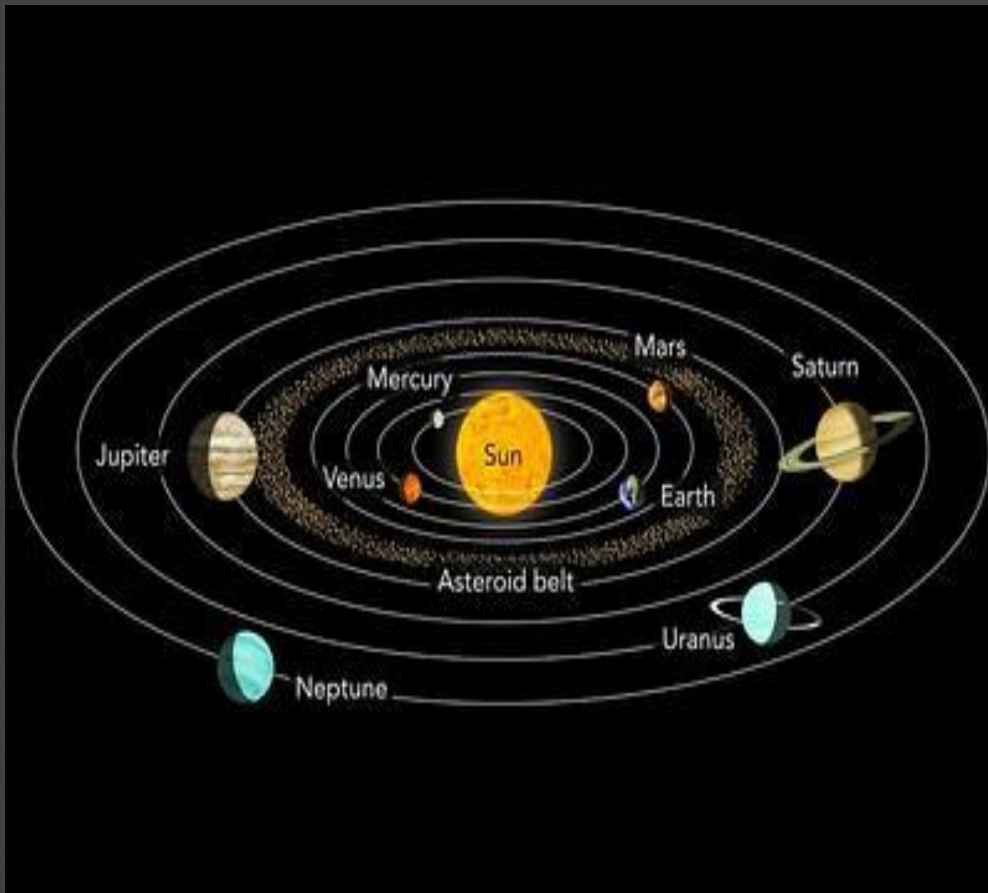
In the context of education, **synchronous** is real-time teaching and learning that can happen collaboratively and at the same time with a group of online learners or even individually, and usually a teacher, or some method of instant feedback;

Examples-

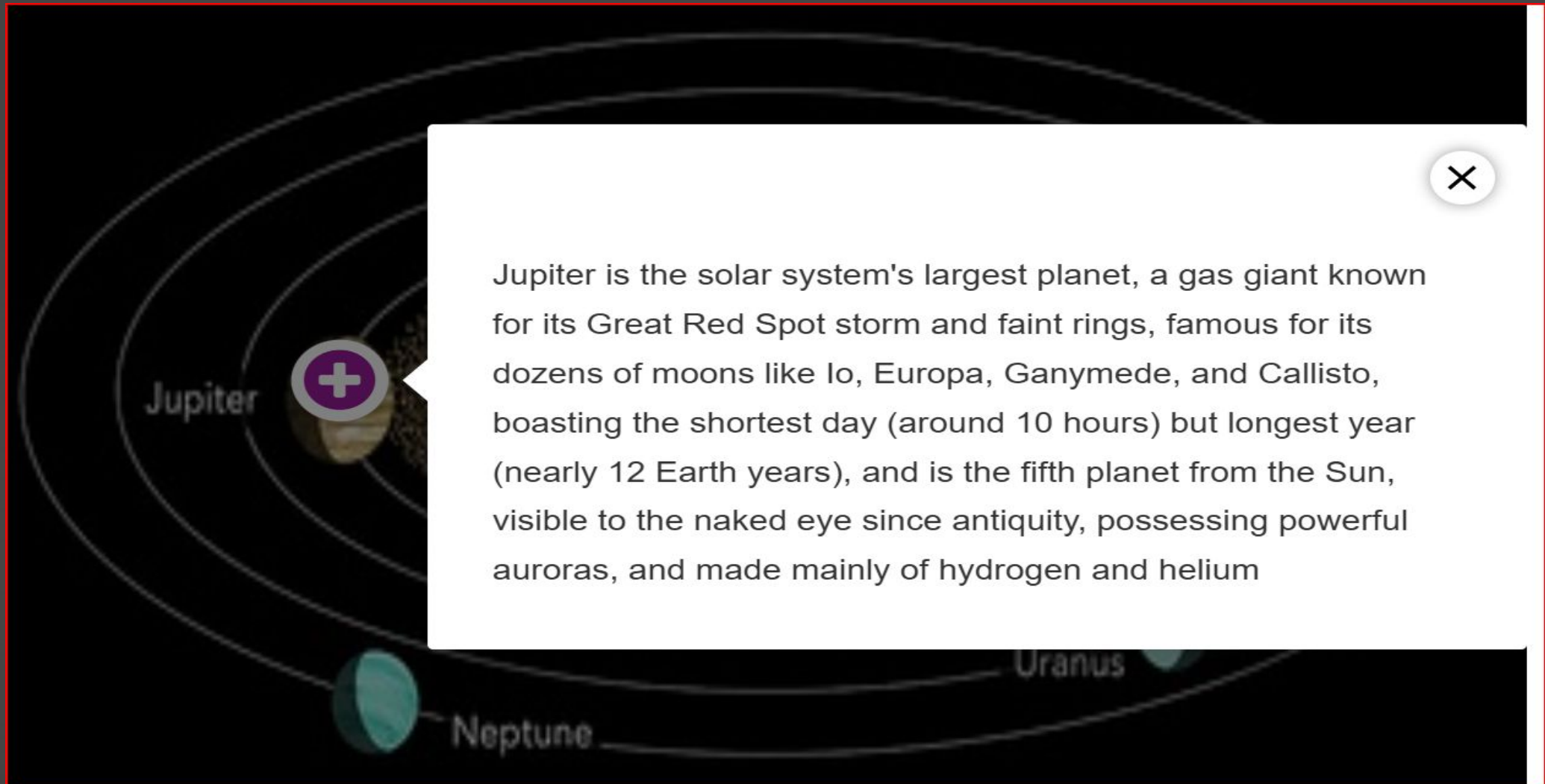
Synchronous (text/voice chatting, Instant messages, Audio/Video/tele conference, application sharing/shared workspace, )

online teaching through video conference (two-way video, one-way video, two way audio), audio conference (two way audio) using satellite or telecommunication facilities.

# Interactive Resources



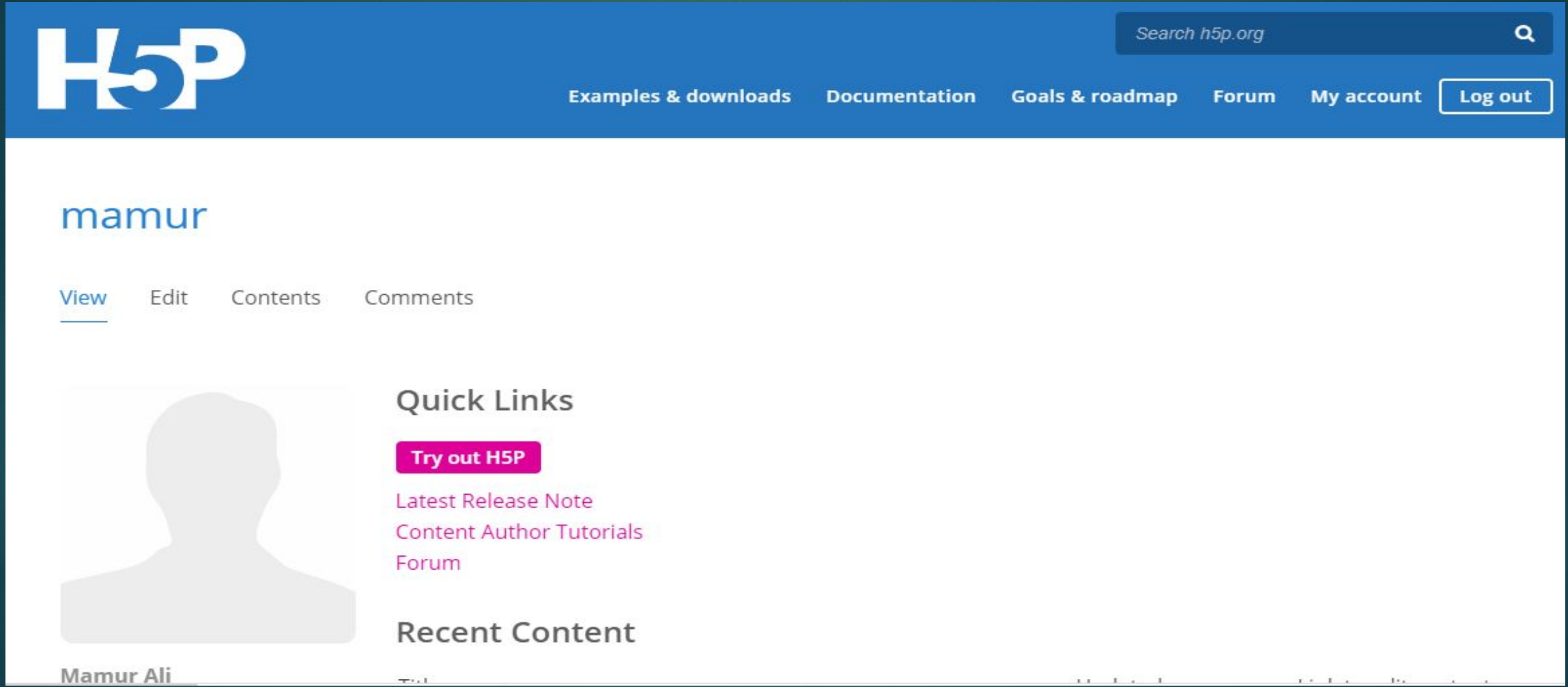
# Interactive Resources



# Interactive Resources

<https://h5p.org/interactive-video>

# Click "Try out H5P" to create new content



The screenshot shows the H5P website interface. At the top left is the H5P logo. To its right is a search bar with the text "Search h5p.org" and a magnifying glass icon. Below the search bar is a navigation menu with links for "Examples & downloads", "Documentation", "Goals & roadmap", "Forum", and "My account". A "Log out" button is located to the right of the "My account" link. The main content area displays the user profile for "mamur". Below the name are tabs for "View", "Edit", "Contents", and "Comments". To the left of the profile is a placeholder for a profile picture. To the right, under the heading "Quick Links", there is a prominent pink button labeled "Try out H5P". Below this button are three links: "Latest Release Note", "Content Author Tutorials", and "Forum". Underneath the quick links is a section titled "Recent Content".


**H5P**

Search h5p.org

Examples & downloads Documentation Goals & roadmap Forum My account Log out

mamur

[View](#) Edit Contents Comments



**Quick Links**

[Try out H5P](#)

[Latest Release Note](#)

[Content Author Tutorials](#)

[Forum](#)

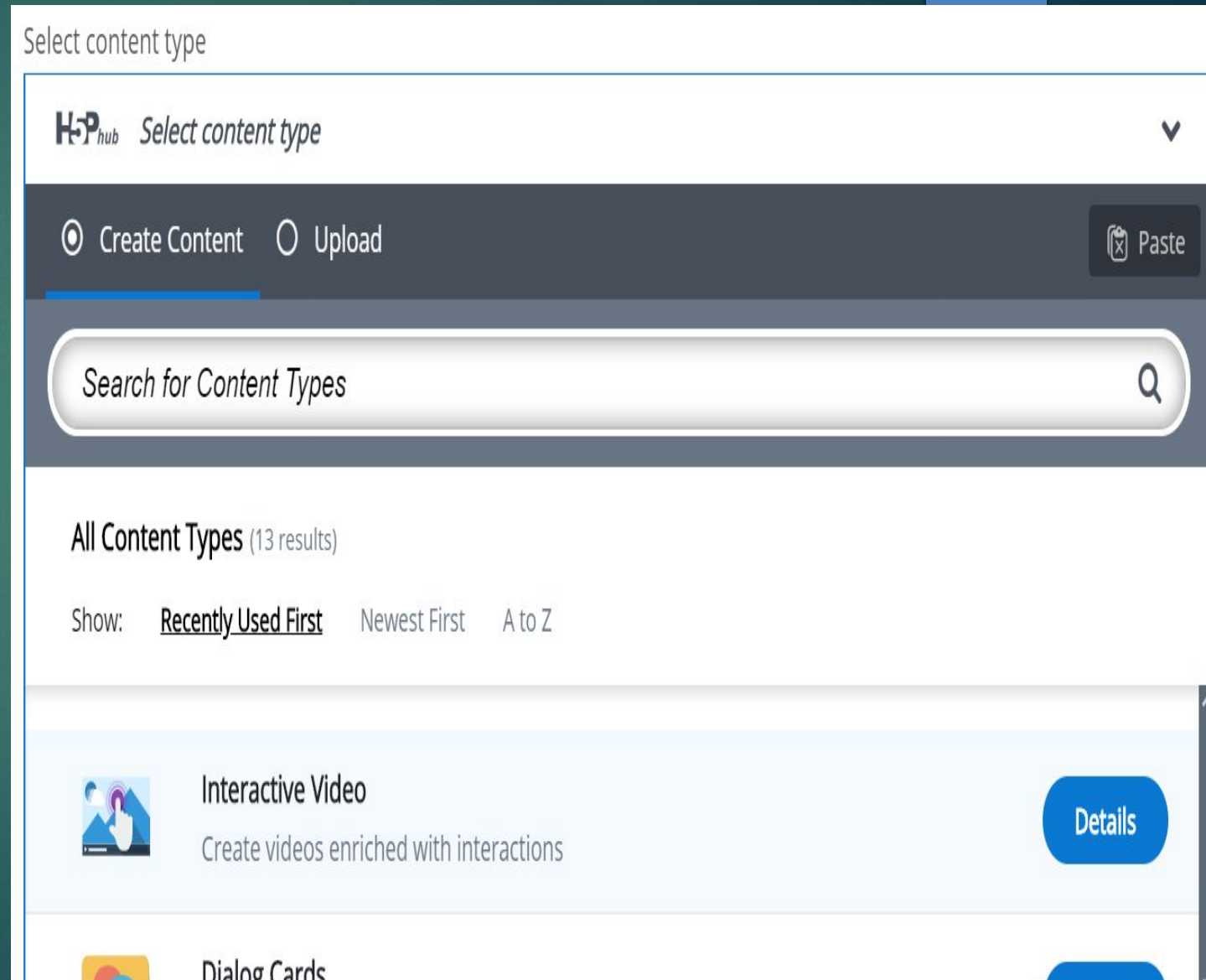
**Recent Content**

Mamur Ali

# Creating an Interactive Video in H5P.org

Select the Interactive Video option from the list of content types or type “interactive video” in the search option.

Then click the “Details” button





The screenshot shows the H5P.org 'Select content type' interface. At the top, there is a header with the H5P logo and the text 'Select content type'. Below the header, there are two radio buttons: 'Create Content' (which is selected) and 'Upload'. To the right of these buttons is a 'Paste' button. Below the buttons is a search bar with the placeholder text 'Search for Content Types' and a magnifying glass icon. Underneath the search bar, it says 'All Content Types (13 results)'. Below this, there are three sorting options: 'Show: Recently Used First', 'Newest First', and 'A to Z'. The first content type listed is 'Interactive Video', which has a small icon of a hand pointing at a screen. To the right of the 'Interactive Video' entry is a blue button labeled 'Details'. Below 'Interactive Video', the text 'Create videos enriched with interactions' is visible. The second content type, 'Dialog Cards', is partially visible at the bottom of the screen.

# Click the “Use” button.

The screenshot shows the H5P Hub interface for selecting content types. At the top, there's a header with the H5P logo and the text "Select content type". Below this, there are two radio buttons: "Create Content" (which is selected) and "Upload". To the right of these is a "Paste" button. A search bar with the placeholder text "Search for Content Types" is located below the radio buttons. The main content area features a large card for "Interactive Video" by "Joubel". The card includes an icon of a hand pointing at a video player, a title "Interactive Video", the author "Joubel", and a description: "Add interactivity to your video with explanations, extra pictures, tables, Fill in the Blank and multiple choice questions. Quiz questions support adaptivity, meaning that you can jump to another part of the video based on the user's input. Interactive summaries can be added at the e... [Read more](#)". Below the description is a "Content Demo" button. At the bottom of the card, there are four video thumbnails showing different interactive video examples. In the bottom right corner of the interface, there is a prominent blue "Use" button.

# Step 1: Upload/embed the video

 Interactive Video 

Title \* Metadata

 Tour

Used for searching, reports and copyright information



Step 1

Upload/embed video



Step 2

Add interactions



Step 3


Summary task


**Add a video (upload limit 16 MB) \***


Click below to add a video you wish to use in your interactive video. You can add a video link or upload video files. It is possible

# Step 1: Upload/embed the video.

## Press "+“ button

 *Step 1*  
Upload/embed vi...


 *Step 2*  
Add interactions

 *Step 3*  
Summary task

### Add a video (upload limit 16 MB) \*

Click below to add a video you wish to use in your interactive video. You can add a video link or upload video files. It is possible to add several versions of the video with different qualities. To ensure maximum support in browsers at least add a version in webm and mp4 formats.

**Note:** To avoid abuse, H5P.org has limited file size on uploads to 16 MB. To use larger files you must use an external service or [Install H5P](#) on your web site.



# Step 1: Upload/embed the video

## Add a video link or upload video files.

**Step 1** Upload/embed video

**Step 2** Add interactions

**Step 3** Summary task


**Add a video (upload limit 16 MB) \***

Click below to add a video you wish to use in your interactive video. You can add a video link or upload video files. It is possible to add several versions of the video with different qualities. To ensure maximum support in browsers at least add a version in webm and mp4 formats.  
**Note:** To avoid abuse, H5P.org has limited file size on uploads to 16 MB. To use larger files you must use an external service or Install H5P on your web site.

Upload video file

or

Paste YouTube link or other video source URL



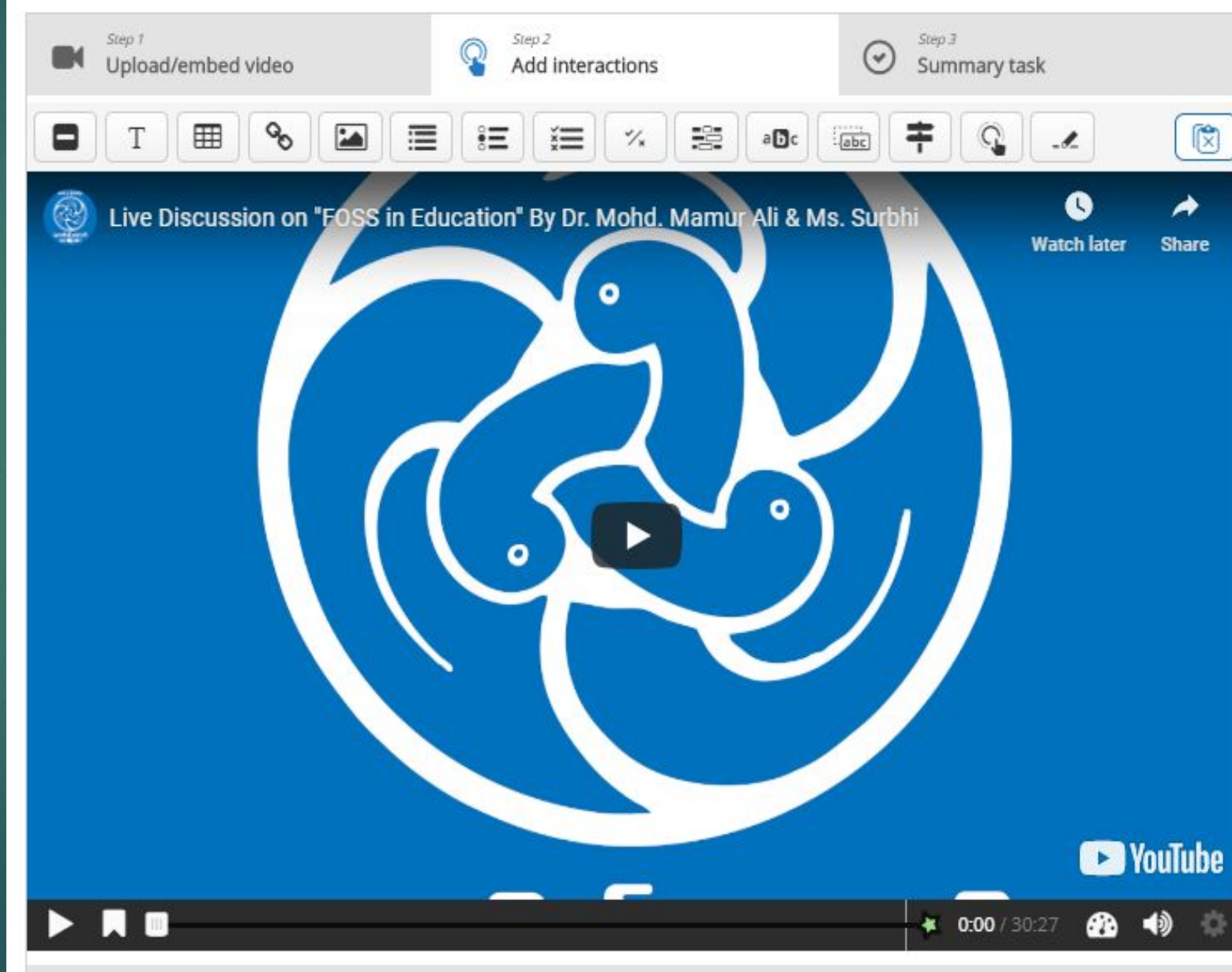
Enter video source URL or YouTube link

H5P supports all external video sources formatted as mp4, webm or ogv, like Vimeo Pro, and has support for YouTube links.

Insert Cancel

# Step 2: Add Interactions

Press the Add interaction tab.



The screenshot displays a video player interface with a dark blue background. At the top, there are three tabs: "Step 1 Upload/embed video", "Step 2 Add interactions" (which is highlighted), and "Step 3 Summary task". Below the tabs is a toolbar with various icons for editing and interaction. The video content shows a blue background with a large white circular graphic containing stylized white fish. The text "Live Discussion on 'FOSS in Education' By Dr. Mohd. Mamur Ali & Ms. Surbhi" is visible at the top of the video frame. In the bottom right corner, the YouTube logo and the text "YouTube" are present. The video player controls at the bottom show a play button, a progress bar at 0:00 / 30:27, and icons for volume and settings.

# Step 2: Add Interactions

Use the toolbar to add interactions



Step 1

Upload/embed vi...



Step 2

Add interactions



Step 3

Summary task



T



abc



## Step 2: Add Interactions: text based

Click the icon in the toolbar



Step 1

Upload/embed vi...



Step 2

Add interactions



Step 3

Summary task




T



abc



# Step 2: Add Interactions: text based

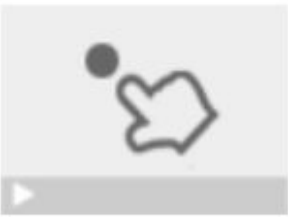
**Interactive Video** | **T Text** | **Delete** | **Done** | 


**Display time \***

5:53.988 - 6:03.988

Pause video

**Display as**

 Button

 Poster

**Button** is a collapsed interaction the user must press to open. **Poster** is an expanded interaction displayed directly on top of the video

# Step 2: Add Interactions: text based

## Label

Label displayed next to interaction icon.

What is FOSS?

## Text \*

Metadata



**B** *I* **S** I<sub>x</sub>

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Normal

FOSS stands for Free and Open Source Software.

body p

# finishing up

Click “save” button

Show button for rewinding 10 seconds

Prevent skipping forward in a video  
Enabling this options will disable user video navigation through default controls.

Deactivate sound  
Enabling this option will deactivate the video's sound and prevent it from being switched on.

▸ Text overrides and translations

**H5P Options**

- Display buttons (download, embed and copyright)
- Allow download
- Embed button
- Copyright button

Save



**THANKS**