

# H5P 互動式網頁內容(教材)製作 簡介

<https://H5P.org>

<https://moodle.ncnu.edu.tw>

<https://moodleTEST.ncnu.edu.tw>

國立暨南國際大學計網中心系統組 簡文章

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2019/11/12

# 什麼是內容 Content(Media) ?

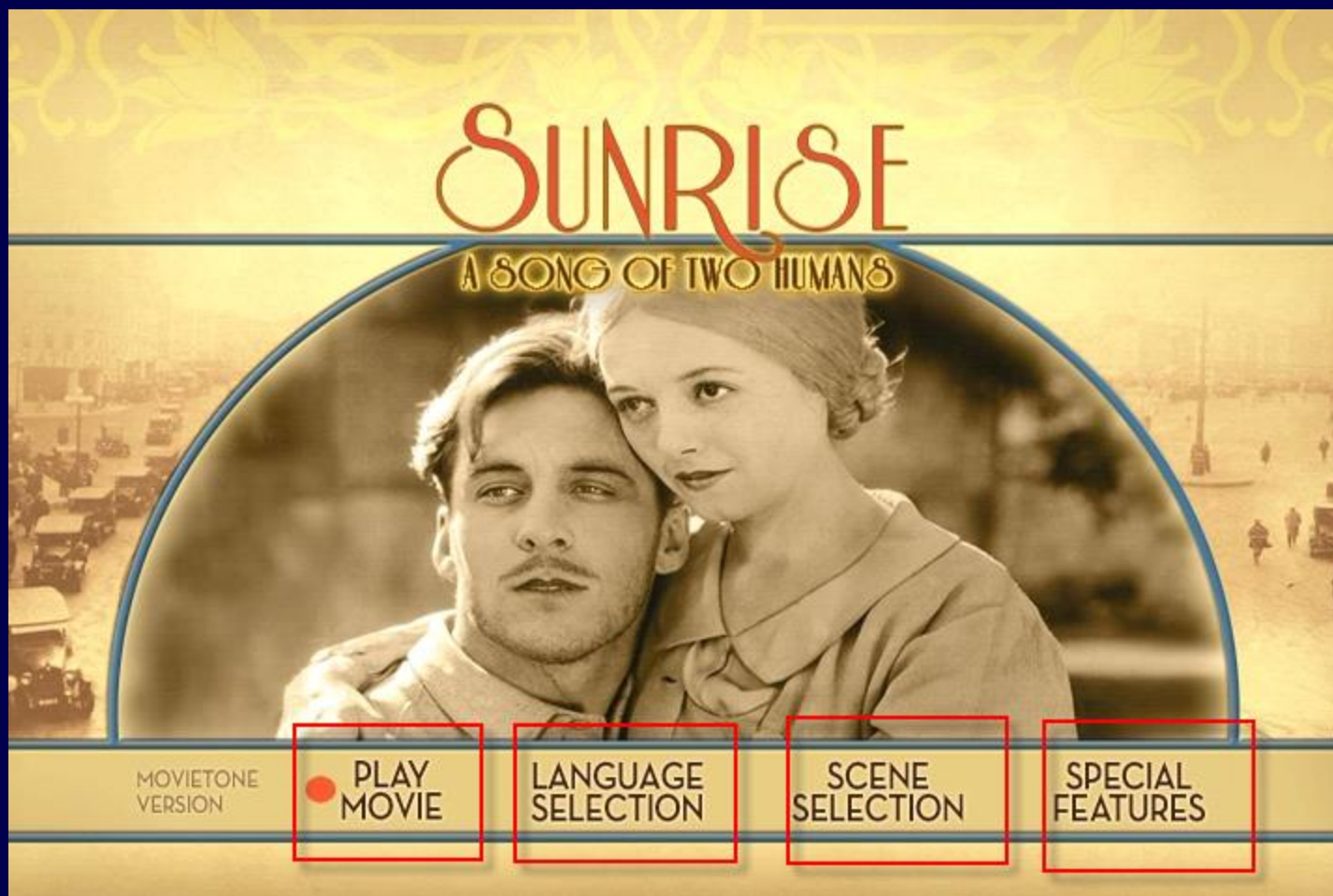
[https://en.wikipedia.org/wiki/Content\\_\(media\)](https://en.wikipedia.org/wiki/Content_(media))

# 什麼是互動式內容(媒體) (interactive content)?

[https://en.wikipedia.org/wiki/Interactive\\_media](https://en.wikipedia.org/wiki/Interactive_media)

- 例如: DVD 光碟的選單

# DVD 光碟的選單



一般網頁內容

V.S.

互動式內容

- 請問各位老師您的教學在 Moodle會用到:
  - 自己錄製的影片
  - 網路上現有的影片，如 Youtube ..
  - 上傳 PPT 投影片電子檔
  - 或其他教材 ....
- 您確定您的**學生有認真看您上傳的教材，而且學會教材內容嗎？**

# 暨大宣傳影片範例

## 一般網頁內容

<https://www.youtube.com/watch?v=XaTpCPOVi4Q>

V.S.

## 互動式內容

<https://h5p.org/node/646520>

# 玉米吐司蛋塔製作範例

## 一般網頁內容

<https://www.youtube.com/watch?v=GUtc5MiNKhg>

V.S.

## 互動式內容

<https://moodle.ncnu.edu.tw/mod/hvp/view.php?id=548224&forceview=1>



- 老師如果您是語文教學老師，教學會用到：
  - 聽寫測驗或練習
  - 口說測驗或練習
  - 互動式情境語文教學
- 除了課堂上的教學外，您是否有方法讓學生自行練習，提升學生學習興趣及效果。

- 口說練習 (一定要用 Chrome )
- <https://h5p.org/node/646589>
  
- 聽寫練習
- <https://h5p.org/dictation#example=387388>

# What is H5P ?

<https://h5p.org/about-the-project>

- H5P's goal is to enable everyone to create better content faster.
- We want to empower everyone to create, share and reuse interactive content!

# What is H5P ?

<https://h5p.org/about-the-project>

- Who's behind H5P?
  - H5P is a **community driven project**. Currently there are some companies that are doing the heavy lifting, and we hope to see more companies and volunteers joining us soon.
  - Joubel, a company co-founded by the **open source companies** Amendor AS and Cerpus AS, is currently the driving force behind H5P, with a growing team of talented engineers dedicated to H5P. This team is called The H5P Core Team and has extensive experience with development and design of open source ed-tech and is located in **Tromsø, Norway**.

# What is H5P ?

<https://h5p.org/about-the-project>

- **History**

- The first H5P prototype of H5P was released January 25th 2013 for Drupal.
  - The first stable release was May 15th 2014 for WordPress.
  - The H5P Core Team was established August 1st 2014.
  - The first stable version for Drupal was released the 11th of November 2014.
- The first stable version for Moodle was released March 14th 2017

## EDU100: Top 100 Tools for Higher Education 2019

Here are the Top 100 digital tools and services that are used in colleges and universities to underpin education. The number in brackets beside each tool shows its place on the Top 200 list. Underneath the table is some analysis of what this list (and the supporting comments) tells us about the state of higher education today.

1 YouTube (1)	2 PowerPoint (3)	3 Google Docs/Drive (6)	4 Word (7)
5 Zoom (10)	6 Google Search (2)	7 Kahoot (21)	8 Google Forms (26)
9 Padlet (30)	10 Excel (16)	11 Twitter (4)	12 WhatsApp (14)
13 OneNote (22)	14 WordPress (9)	15 Facebook (18)	16 Moodle (50)
17 Poll Everywhere (62)	18 Canvas (70)	19 Skype (19)	20 Flipgrid (72)
21 TED (24)	22 Outlook (38)	23 Snagit (27)	24 Camtasia (23)
25 Wikipedia (8)	26 Slack (12)	27 Wakelet (79) <b>NEW</b>	28 Adobe Captivate (37)
29 Adobe Photoshop (44)	30 Prezi (47)	31 Articulate (20)	32 iSpring (40)
33 Unsplash (87)	34 Microsoft Teams (11)	35 Google Chrome (35)	36 H5P (57)
37 Evernote (25)	38 Quizlet (91)	39 Screencast-O-matic (92)	40 Sway (94)
41 SurveyMonkey (97)	42 G-Suite (98)	43 Piktochart (100)	44 Plickers (102)
45 Dropbox (17)	46 Mentimeter (41)	47 Genially (73)	48 Google Scholar (39)
49 Microsoft Forms (106)	50 Loom (110) <b>NEW</b>	51 Pixabay (111)	52 Socrative (119)
53 Etherpad (120) <b>BACK</b>	54 Google Keep (83)	55 Thinglink (122)	56 Blackboard (130)
57 Google Sites (131)	58 Google Classroom (136)	59 BigBlue Button (142) <b>BACK</b>	60 Immersive Reader (145) <b>NEW</b>
61 PBWorks (147)	62 Screencastify (148) <b>NEW</b>	63 Trello (28)	64 Nearpod (150) <b>BACK</b>

# H5P 特色

<https://h5p.org>

- Open Source，完全免費
- 它有超過 40 種的 content type
- 不用安裝軟體，只要使用最新的瀏覽器如 Chrome、Firefox 就可以線上製作互動式內容網頁
- 您可以在 <https://h5p.org> 申請 H5P 官網帳號，在上面製作互動式內容，完成之互動式教材能直接嵌入任何網站，也可匯出在暨大 Moodle 使用

# Activities: Interactive Content – H5P





## H5P 互動內容

首頁 ▶ Plugins ▶ Activities ▶ Interactive Content – H5P ▶ Description



## Activities: Interactive Content – H5P

mod\_hvp

Maintained by  Frode Petterson,  Thomas Marstrander,  Pål Jørgensen,  
 Svein-Tore Griff With

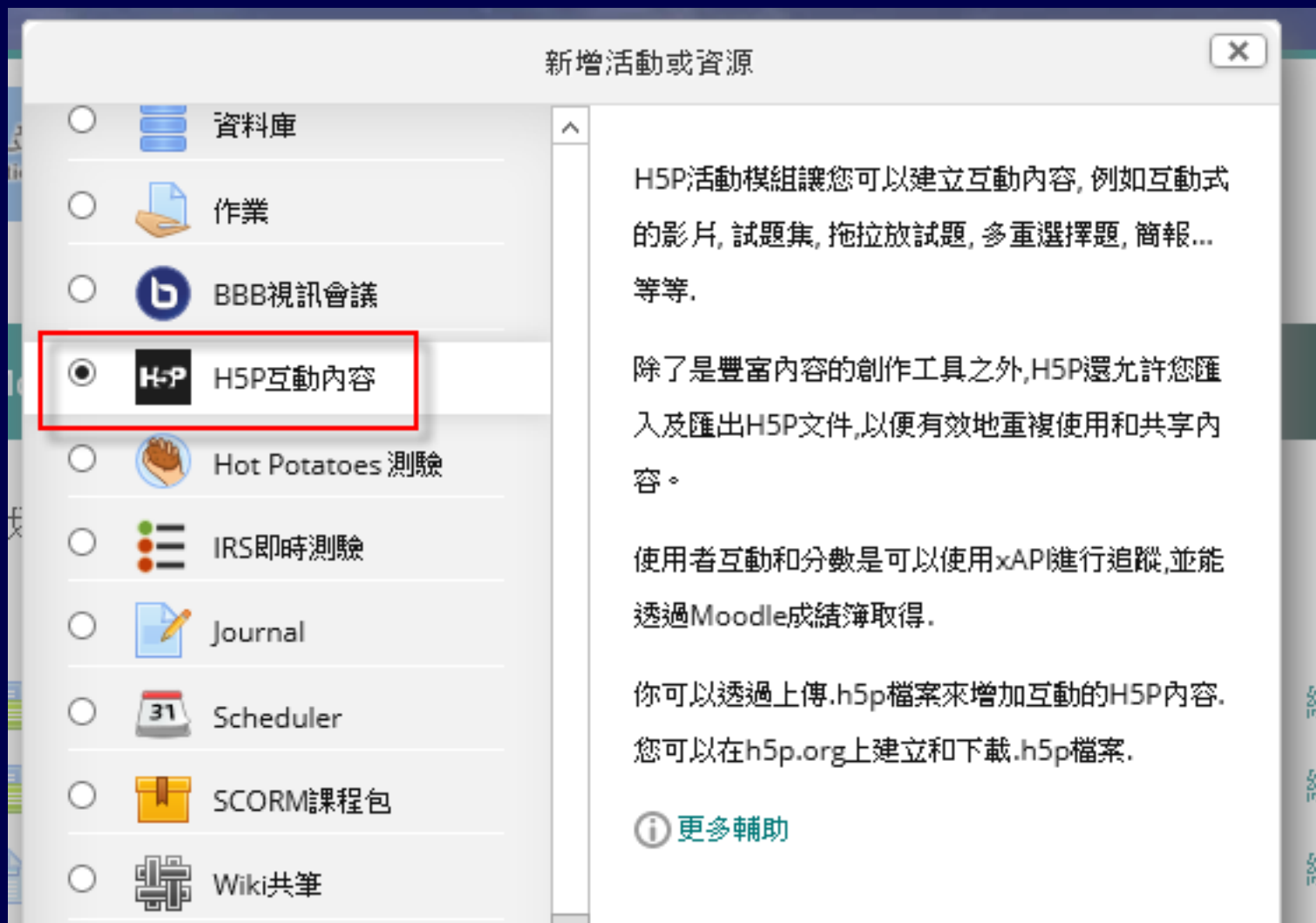
Create and add rich content inside your LMS for free. Some examples of what you get with H5P are Interactive Video, Quizzes, Collage and Timeline.

📍 10733 sites   📄 13k downloads   ❤️ 293 fans



# Activities: Interactive Content – H5P

## H5P 互動內容



The screenshot shows a Moodle interface window titled "新增活動或資源" (Add Activity or Resource). On the left, a list of activity options is shown, with "H5P 互動內容" (H5P Interactive Content) selected and highlighted by a red box. The right side of the window contains descriptive text about H5P activities and a link for more help.

新增活動或資源

- 資料庫
- 作業
- BBB視訊會議
- H5P 互動內容**
- Hot Potatoes 測驗
- IRS即時測驗
- Journal
- Scheduler
- SCORM課程包
- Wiki共筆

H5P活動模組讓您可以建立互動內容, 例如互動式的影片, 試題集, 拖拉放試題, 多重選擇題, 簡報... 等等.

除了是豐富內容的創作工具之外, H5P還允許您匯入及匯出H5P文件, 以便有效地重複使用和共享內容。

使用者互動和分數是可以使用xAPI進行追蹤, 並能透過Moodle成績簿取得。

你可以透過上傳.h5p檔案來增加互動的H5P內容。您可以在h5p.org上建立和下載.h5p檔案。

[i 更多輔助](#)

# Activities: Interactive Content – H5P


## H5P 互動內容

- <https://h5p.org>
- **Examples and Downloads**
- <https://h5p.org/content-types-and-applications>
- **Tutorials for authors**
- <https://h5p.org/documentation/for-authors/tutorials>


# H5P Examples and Downloads

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


### Featured



**Interactive Video**  
Create videos enriched with interactions




**Course Presentation**  
Create a presentation with interactive slides




**Branching Scenario (beta)**  
Create dilemmas and self paced learning

### Content Types


[View all](#) [Games](#) [Multimedia](#) [Questions](#) [Social media](#)




**Accordion**  
Create vertically stacked expandable items




**Agamotto**  
Create a sequence of images that gradually



**Arithmetic Quiz**  
Create time-based arithmetic quizzes



**Audio Recorder**  
Create an audio recording



**Chart**  
Quickly generate bar and pie charts

19

# Tutorials for authors

<https://h5p.org/documentation/for-authors/tutorials>

**H5P** Search *h5p.org*

Examples & downloads Documentation Goals & roadmap Forum My account

Home  
Getting started  
▶ Installation & setup  
▼ Content author guide  
    The basics  
    ▼ **Tutorials for authors**  
        Interactive Video  
        Course Presentation  
        Branching Scenario  
        Drag and Drop  
        Dialog Cards  
        Virtual Tour (360)  
        Accordion  
        Image Hotspots  
        Flashcards  
        Drag the Words  
        Timeline  
        Question Set  
        Multiple Choice question  
        Memory Game  
        Agamotto  
        Documentation Tool  
        Guess the Answer

## Tutorials for authors

Here you'll learn how the authoring tool works for many of the existing content types.

Select the content type below to read the tutorial.

### Course Presentation

Create a presentation with interactive slides

[Course Presentation Tutorial](#)

### Interactive Video

Create videos enriched with interactions

[Interactive Video Tutorial](#)

### 360 Virtual Tour

Create interactive 360 environments

[360 Virtual Tour Tutorial](#)

### Multiple Choice

Create flexible multiple choice questions

[Multiple Choice Tutorial](#)

### Guess the Answer

Create an image with a question and answer

[Guess the Answer Tutorial](#)

# Reuse (Download) H5P Examples - 1

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

The screenshot shows an H5P interactive video player interface. At the top, it says "Examples" and "1 of 2". The video title is "Smoothie" and it was "Created by Joubel". Navigation buttons for "Previous" and "Next" are visible. The video content features a bowl of strawberries, a carton of "Bite delite" milk, and a container of blueberries. A large play button is centered over the video. A blue speech bubble with the text "按 [Reuse]" points to the "Reuse" button in the bottom-left corner of the player. A semi-transparent overlay with a play button and the text "Interactive Video" and "Press the buttons that appear during the video!" is also present. The bottom of the player shows a progress bar at 0:00 / 1:06 and icons for "Reuse", "Rights of use", and "Embed".

# Reuse (Download) H5P Examples - 2

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

The screenshot shows an H5P interactive video player interface. At the top, it says "Examples" and "1 of 2". The video title is "Smoothie" and it was "Created by Joubel". Navigation buttons for "Previous" and "Next" are visible. The video content is a smoothie-making video with the text "SMOOTHIE" overlaid. A "Reuse Content" dialog box is open, featuring a download icon and the text "Download as an .h5p file". Below this, it states: ".h5p files may be uploaded to any web-site where H5P content may be created." The video player controls at the bottom show a play button, a progress bar at 0:00 / 1:06, and icons for "Reuse", "Rights of use", and "Embed".

# 申請 H5P 免費帳號

The image shows a browser window displaying the H5P website. The browser's address bar shows 'h5p.org'. The website's header features the H5P logo on the left and a navigation menu with the following items: 'Examples & downloads', 'Documentation', 'Goals & roadmap', 'Forum', 'Log in', and 'Create free account'. The 'Create free account' button is highlighted with a red rectangular box. Below the navigation menu, the main content area has a blue background with the text 'CREATE, SHARE AND REUSE INTERACTIVE HTML5 CONTENT IN YOUR BROWSER'. To the right of this text is a 2x3 grid of six white squares, each containing a question mark. Below the grid, there is a 'Time spent: 0:00' and 'Card turns: 0' display. A 'feedback' button is visible in the bottom right corner. At the bottom of the page, a preview of an 'Interactive Video Editor' is partially visible.

# 申請 H5P 免費帳號

h5p.org/user/register?destination=welcome-to-the-h5p-community

## User account

[Create new account](#) [Log in](#) [Request new password](#)

Username \*

E-mail address \*

Password \*

Confirm password \*

Spaces are allowed; punctuation is not allowed except for periods, hyphens, apostrophes, and underscores.

A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by e-mail.

Provide a password for the new account in both fields. Password must be at least 6 characters.

Description

feedback



# 登入 H5P

The screenshot shows the H5P user interface. At the top, there is a navigation bar with the H5P logo, a search bar, and links for 'Examples & downloads', 'Documentation', 'Goals & roadmap', 'Forum', 'Log in', and 'Create free account'. The 'Log in' link in the navigation bar is highlighted with a red box. Below the navigation bar, the 'User account' section contains a 'Log in' link (highlighted with a red box) and a 'Request new password' link (highlighted with a green box). A blue speech bubble with the text '忘了密碼' (Forgot password) points to the 'Request new password' link. Below these links are two form fields: 'Username or e-mail address \*' (containing 'wcchien@ncnu.edu.tw') and 'Password \*' (containing masked characters). Both form fields are highlighted with red boxes. Below the password field is a note: 'The password field is case sensitive.' At the bottom left, there is a 'Log in' button (highlighted with a red box). On the right side of the page, there is a vertical 'feedback' button.

# 開始製作互動式內容

The screenshot shows the H5P user profile page for 'wcchien'. The browser address bar shows 'h5p.org/user/293995'. The page header includes the H5P logo, a search bar, and navigation links: 'Examples & downloads', 'Documentation', 'Goals & roadmap', 'Forum', 'My account', and 'Log out'. The user's name 'wcchien' is displayed at the top left. Below the name are four buttons: 'View', 'Edit', 'Contents', and 'Comments'. The 'Contents' button is highlighted with a red box. A blue speech bubble points to the 'Try out H5P' button in the 'Quick Links' section, containing the text '按這裡就可以開始製作互動式內容'. The 'Quick Links' section also includes 'Latest Release Note', 'Content Author Tutorials', and 'Forum'. The 'Recent Content' section shows a table with columns for 'Title', 'Updated', and 'Link to edit content'. The table contains two entries, both titled '練習十一~翻牌'.

按這裡就可以開始製作互動式內容

Title	Updated	Link to edit content
練習十一~翻牌	2019/11/12 - 08:03	edit
練習十一~翻牌	2019/11/12 - 08:03	edit

# Upload H5P Examples - 1

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

The screenshot shows the H5P.org website interface for creating interactive content. At the top, there is a navigation bar with the H5P logo, a search bar, and links for 'Examples & downloads', 'Documentation', 'Goals & roadmap', 'Forum', 'My account', and 'Log out'. The main heading is 'Create Interactive content'. Below this, there is an information box with an 'i' icon and text: 'H5P.org provides a free... installing it on your own site or signing up for H5P.com. Be aware that all test content...'. The 'Select content type' section features a dropdown menu with 'H5P Hub Select content type' and a search icon. Two options are visible: 'Create Content' and 'Upload', with the 'Upload' option selected and highlighted by a red box. A callout bubble points to this option with the text '1. 先按 [Upload]'. Below the dropdown, there is a section for 'Upload an H5P file.' containing a file selection area with the text 'No file chosen' and an 'Upload a file' button, which is also highlighted by a red box and pointed to by a callout bubble with the text '2. 再按 [Upload a file]'. At the bottom, there is a 'Tags' section with a text input field and a button labeled 'Organize your content with tags'.

# Upload H5P Examples - 2

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

## Create Interactive content



H5P.org provides a free service for **trying out H5P** by creating content. Be aware that all test content created on H5P.org is publicly available.

Sign up for H5P.com. Be aware

3. 上傳檔案後, 再按 [Use]

Select content type

H5P<sub>hub</sub> Select content type

Create Content  Upload

Paste

Upload an H5P file.

interactive-video-2-618.h5p

Use

Change file


You may start with examples from [H5P.org](https://h5p.org).

Tags

# Upload H5P Examples - 3

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

## Create Interactive content


 H5P.org provides a free service for **trying out H5P** before **installing it on your own site** or signing up for **H5P.com**. Be aware that all test content created on H5P.org is publicly available.


Select content type

 *Interactive Video*

Interactive Video was successfully uploaded!

 Tutorial

 Example

 Copy

 Paste & Replace

 Interactive Video


Title \* 

Used for searching, reports and copyright information

Interactive Video

 *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

# Upload H5P Examples - 4

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

The screenshot shows the H5P editor interface for an interactive video. At the top, there is an 'Edit copyright' button. Below it are several expandable sections: 'Interactive Video', 'Text tracks (unsupported for YouTube videos)', 'Behavioural settings' (highlighted with a red box), and 'Text overrides and translations'. A 'Next Step' button with a lightbulb icon and the text 'Add interactions' is visible on the right. Below these sections is a 'Tags' input field. The 'H5P Options' section is partially visible, showing checkboxes for 'Dis...', 'Allo...', 'Embed button', and 'Copyright button'. A red box highlights the 'Save' button at the bottom left. A blue callout box with a pointer to the 'Save' button contains the text '最後一定要記得按 [Save]'.

最後一定要記得按 [Save]

# Upload H5P Examples - 5

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

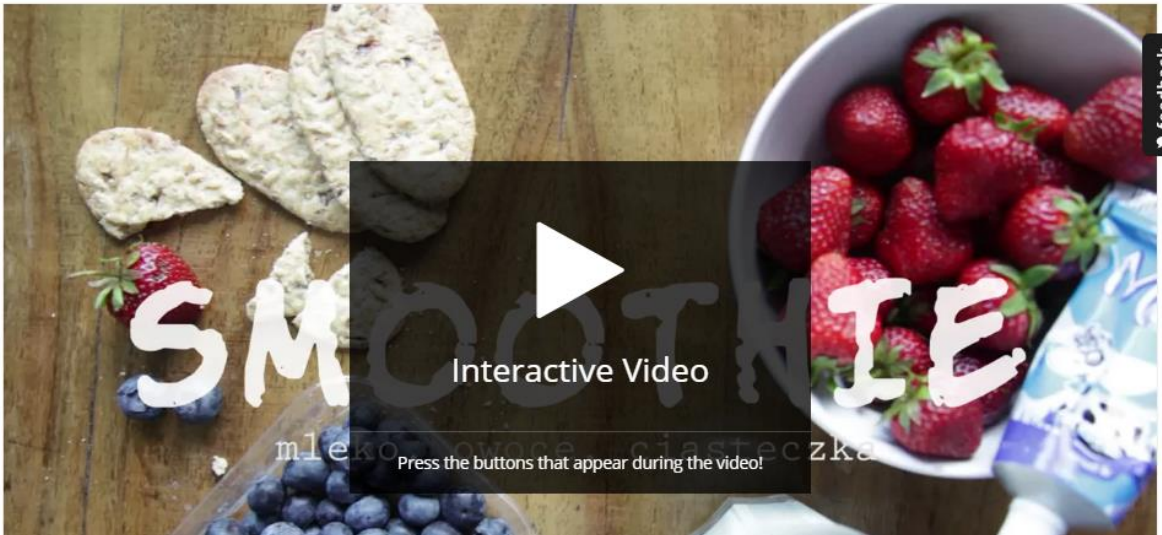
✔ You may now create more content or see a [list of all your created content](#).  
✔ Interactive content *Interactive Video* has been created.

## Interactive Video

[View](#) [Edit](#) [Clone content](#)

按 **[View]** 可以看內容成果  
按 **[Edit]** 可以編輯內容

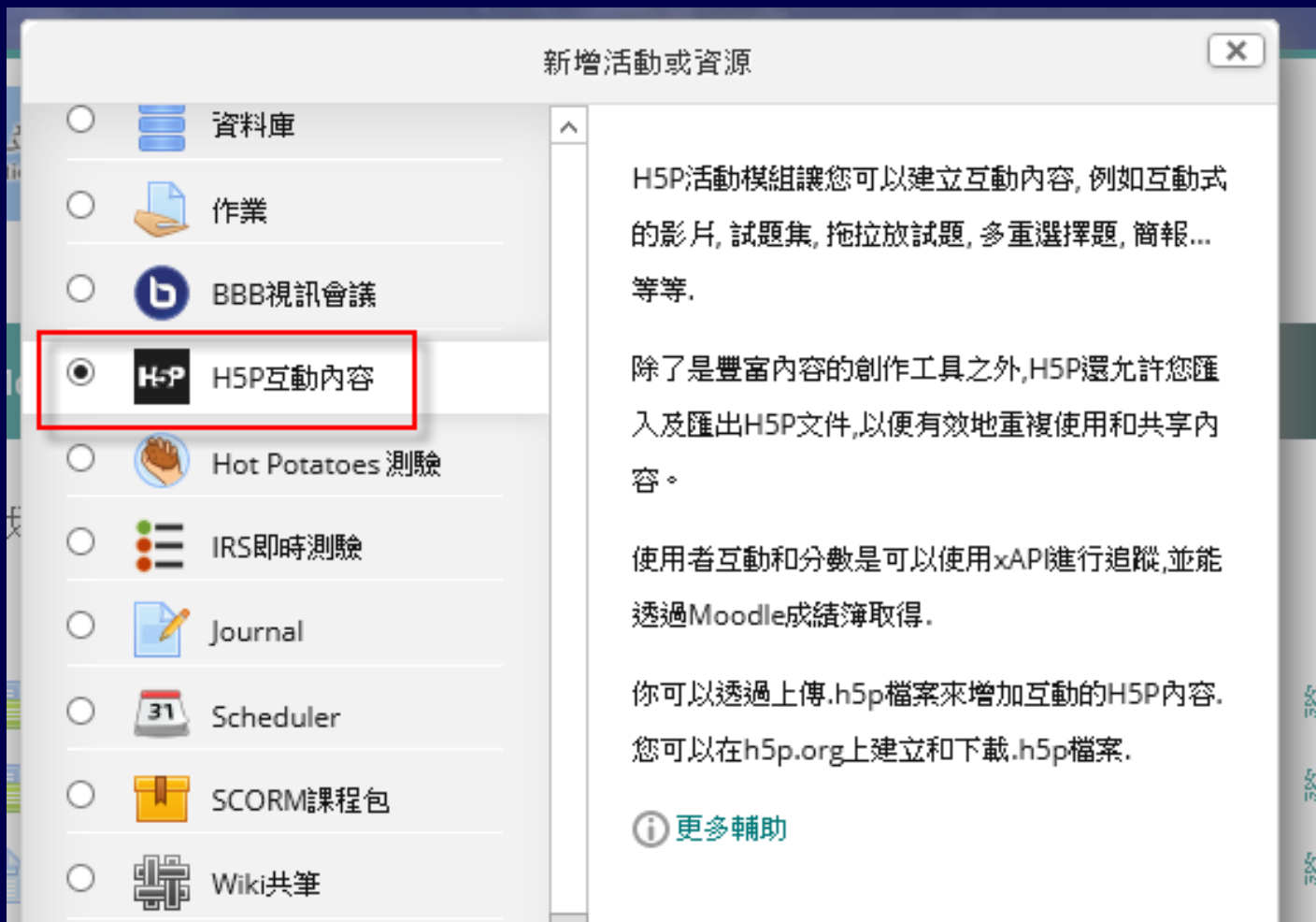
Submitted by wchien on Wed, 11/13/2019 - 03:54



Interactive Video

Press the buttons that appear during the video!

# 如何在 Moodle 新增 H5P 內容



新增活動或資源

- 資料庫
- 作業
- BBB視訊會議
- H5P 互動內容**
- Hot Potatoes 測驗
- IRS即時測驗
- Journal
- Scheduler
- SCORM課程包
- Wiki共筆

H5P活動模組讓您可以建立互動內容, 例如互動式的影片, 試題集, 拖拉放試題, 多重選擇題, 簡報... 等等.

除了是豐富內容的創作工具之外, H5P還允許您匯入及匯出H5P文件, 以便有效地重複使用和共享內容。

使用者互動和分數是可以使用xAPI進行追蹤, 並能透過Moodle成績簿取得。

你可以透過上傳.h5p檔案來增加互動的H5P內容. 您可以在h5p.org上建立和下載.h5p檔案.

[更多輔助](#)



# UCLA 的 H5P 推廣

- <https://humtech.ucla.edu/instructional-support/ccle-activities-resources/h5p/>
- <https://ccle.ucla.edu/course/view/h5p>
- <https://humtech.ucla.edu/instruction/top-5-hidden-features-h5p/>

# UCLA 使用 H5P 範例課程

## Writing Instruction + Research Education

- <https://ccle.ucla.edu/course/view/wire>

# H5P Content Types Relation (Aggregator, Integratable, Stand-alone, and Component)

- [https://docs.google.com/spreadsheets/d/1hVx2BChcstrsA6A2BxJ0Fbw\\_EaHp1pMq6PxUEM9fc/edit#gid=0](https://docs.google.com/spreadsheets/d/1hVx2BChcstrsA6A2BxJ0Fbw_EaHp1pMq6PxUEM9fc/edit#gid=0)

	A	B	C	D	E	F
1		Column	Course Presentation	Interactive Video	Questionnaire	Quiz (aka Question Set)
2	Accordion	Y				
3	Agamotto					
4	Arithmetic Quiz					
5	Audio Recorder					
6	Chart					
7	Collage	Y				
8	Column	SELF				
9	Course Presentation	Y	SELF			
10	Dialog Cards		Y			
11	Documentation Tool	Y				
12	Drag and Drop	Y	Y	Y		Y
13	Drag the Words (Drag Text)	Y	Y	Y		Y
14	Fill in the Blanks	Y	Y	Y		Y
15	Find Multiple Hotspots					
16	Find the Hotspot	Y				
17	Flashcards					
18	Guess the Answer					
19	Iframe Embedder	Y				
20	Image Hotspots					
21	Image Juxtaposition					
22	Image Sequencing					

	A	B	C	D	E	F
1		Column	Course Presentation	Interactive Video	Questionnaire	Quiz (aka Question Set)
23	Image Slider					
24	Impressive Presentation					
25	Interactive Video	Y	Y	SELF		
26	Mark the Words	Y	Y	Y		Y
27	Memory Game	Y				
28	Multiple Choice	Y	Y	Y		Y
29	Personality Quiz					
30	Questionnaire			Y	SELF	
31	Quiz (Question Set)	Y				SELF
32	Single Choice Set	Y	Y	Y		
33	Speak the Words					
34	Speak the Words Set					
35	Summary	Y	Y	Y		
36	Timeline	Y				
37	True/False Question	Y	Y	Y		Y
38	Twitter User Feed	Y	Y			
39	appear.in	Y	Y			
40	Facebook Feed					
41	Audio	Y				
42	Table	Y	Y			
43	Link	Y	Y	Y		
44	Text	Y	Y	Y		
45	Image	Y	Y	Y		
46	Video	Y	Y			
47	Continuous Text		Y			
48	Exportable Text Area		Y			

	A	B	C	D	E	F
1		<b>Column</b>	<b>Course Presentation</b>	<b>Interactive Video</b>	<b>Questionnaire</b>	<b>Quiz (aka Question Set)</b>
49	Label			Y		
50	Statements			Y		
51	Crossroads			Y		
52	Navigation Hotspot			Y		
53	Open Ended Question				Y	
54	Simple Multi Choice				Y	
55	Board Game					
56	Contact Button					
57	Counter					
58	Fullscreen scroller					
59	Greeting Card					
60	Picture slider					
61						
62	<b>Total</b>	<b>26</b>	<b>19</b>	<b>16</b>	<b>2</b>	<b>6</b>
63						

# H5P 近一年新功能

- Branching Scenario
- Dictation
- Essay
- Virtual Tour (360)

# H5P 未公開的新功能

## Interactive Book


<https://h5p.org/secrets/interactive-book>

☰ Cloudberrries 1 / 3 < >

Interactive Book (alpha)

- ▼ Cloudberrries ○
  - Cloudberrries
    - What color do ripe cloudberrries...
    - Fill in the blanks
  - ▶ Redcurrant ○
  - ▶ Blueberries ○

### Cloudberrries



feedback

- Cloudberrries grow in alpine and arctic tundra.
- The cloudberry is also known as bakeapple, knotberry and averin, and is part of the Rose family.
- Each fruit is initially pale red, ripening into an amber color in early autumn.
- Scandinavia has strict rules for harvesting cloudberrries. Sweden even has a section for regulating this in their Ministry of Foreign Affairs.



# 一些網路上的範例

- 教育大市集

<https://market.cloud.edu.tw/web/h5p/>

- **Create Interactive Content With H5P In Moodle LMS**

- <https://www.3esofttech.com/create-interactive-content-h5p-moodle-lms/>

希望 Moodle

是您教學活動上的好幫手！

也是學生增進學習成效的利器！

感謝聆聽！