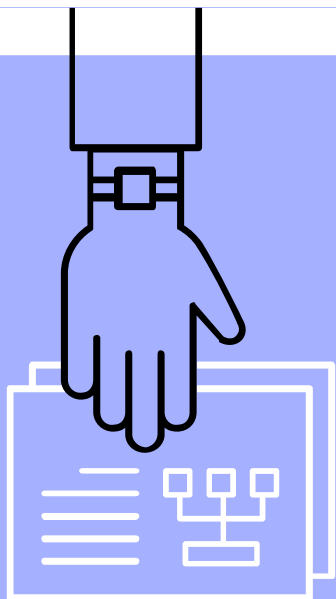
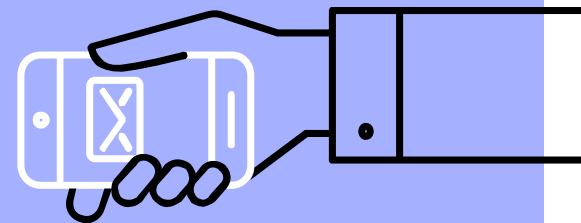


Univerza v Ljubljani

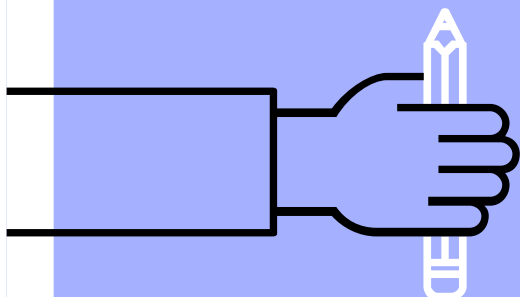
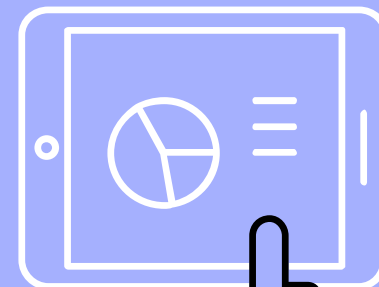


Center UL
za uporabo IKT
v pedagoškem procesu



Creating interactive learning materials with H5P

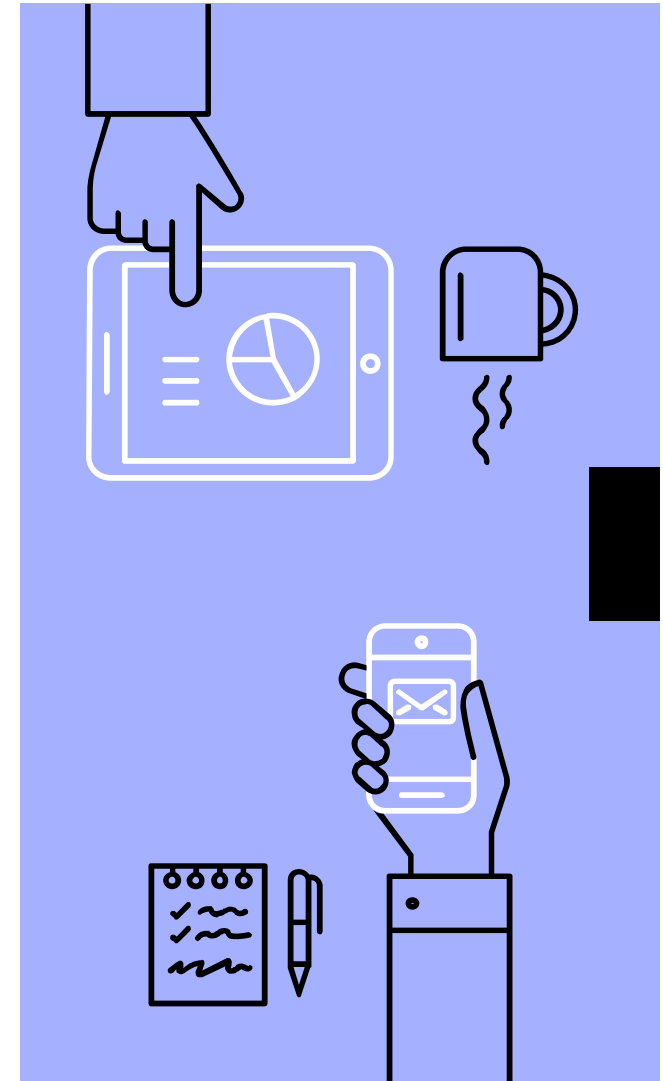
Tadeja Nemanič



What is H5P?

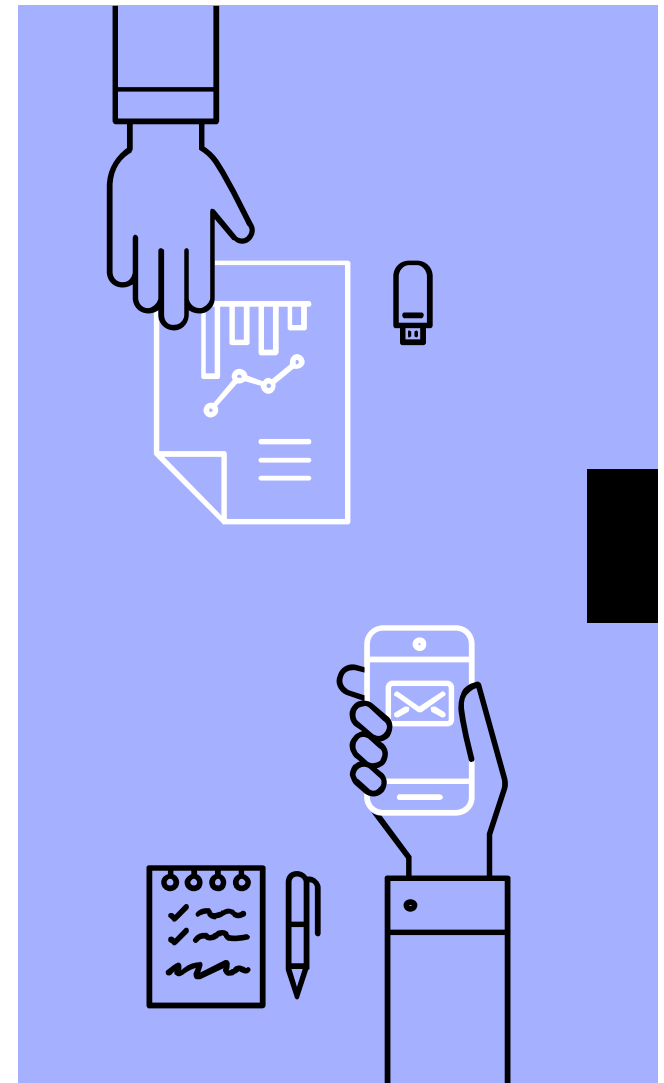


- ▶ It is free software that allows you to create web-based, interactive learning content. There are over forty activities to choose from, including quizzes, games, presentations and interactive videos.
- ▶ H5P is an abbreviation for HTML5 Package.
- ▶ Major advantages: free to use, easy to use, responsive (we can use it on different devices), accessibility



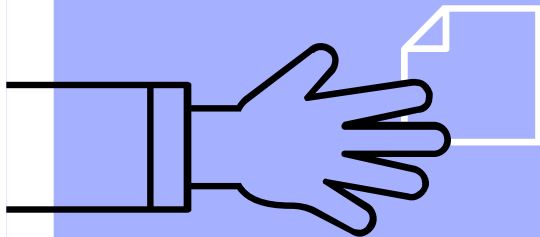
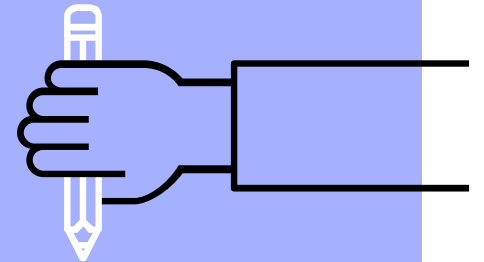
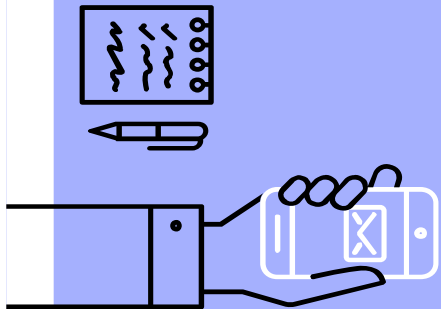
Where to create content?

	Free to use	Number of activities	Feedback	Reports
h5p.com	no	> 40	yes	yes
h5p.org	yes	12	yes	no
Moodle	yes	> 40	yes	yes
WordPress	yes	> 40	yes	no



How to use H5P in the pedagogical process?

Let's see some examples



Interactive presentation of learning content

COURSE PRESENTATION



Interactive presentation of learning content

COURSE PRESENTATION

How many varieties of blueberry exist?

- Between 30 and 50
- Less than 10
- More than 50
- Between 10 and 30

INTERACTIVE VIDEO

Small intestine [Jejuniokeum, Duodenum]
Ileum
Large intestine
Cloaca
Stomach

VEĆ VIDEOPOSNETKI

© Michael Schenk

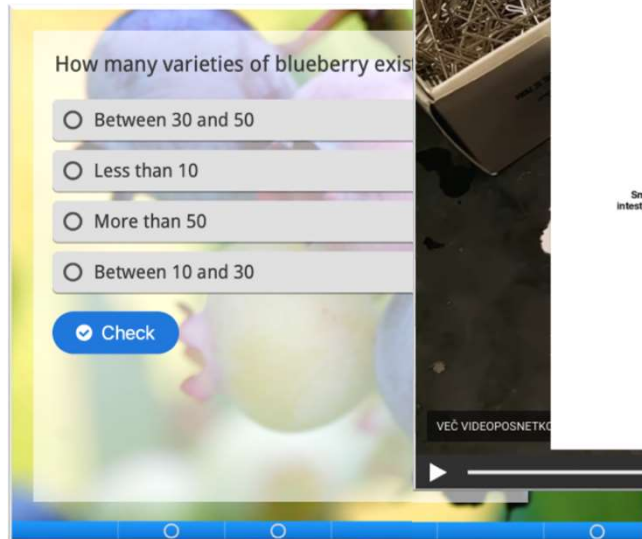
YouTube

3:22 / 4:59



Interactive presentation of learning content

COURSE PRESENTATION



How many varieties of blueberry exist?

- Between 30 and 50
- Less than 10
- More than 50
- Between 10 and 30

Check

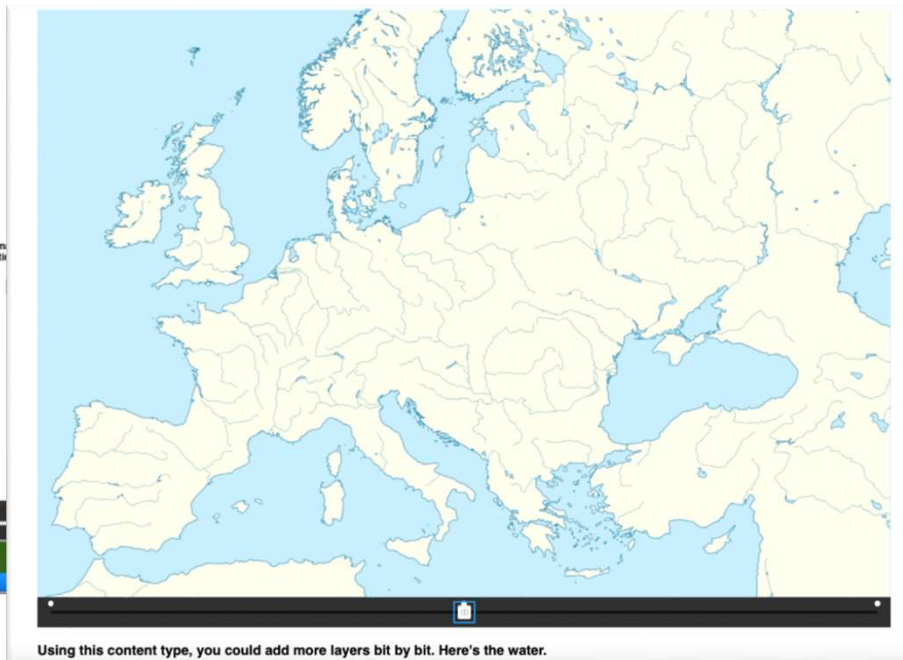
INTERACTIVE VIDEO



Sm. intestiv

VEĆ VIDEOPOSNETKI

AGAMOTTO



Using this content type, you could add more layers bit by bit. Here's the water.



Interactive presentation of learning content

COURSE PRESENTATION

How many varieties of blueberry exist?

- Between 30 and 50
- Less than 10
- More than 50
- Between 10 and 30

VEČ VIDEOPOSNETKOV

INTERACTIVE VIDEO

Smu
intestiv

Using this content type, you could add more layers bit by bit. Here's the water.

AGAMOTTO

Using this content type, you could add more layers bit by bit. Here's the water.

IMAGE HOTSPOTS

SAMR-model

REDEFINICIJA
(ang. REDEFINITION)

Tretja stopnja je preoblikovanje (ang. modification), pri kateri uporaba IKT omogoča bistveno preoblikovanje aktivnosti z vpeljevanjem novih funkcionalnosti za spodbujanje višjih kognitivnih procesov študentov. Študenti, na primer, z uporabo IKT v skupinah pripravijo predstavitev na določeno temo, preostali vrstniki pa izdelek kritično komentirajo.

IZBOLJŠANJE

ZAMENJAVA
(ang. SUBSTITUTION) - IKT nadomesti prej uporabljena učila oz. učne pripomočke, brez uvajanja novih funkcionalnosti, ki spodbujajo kognitivne procese študentov.

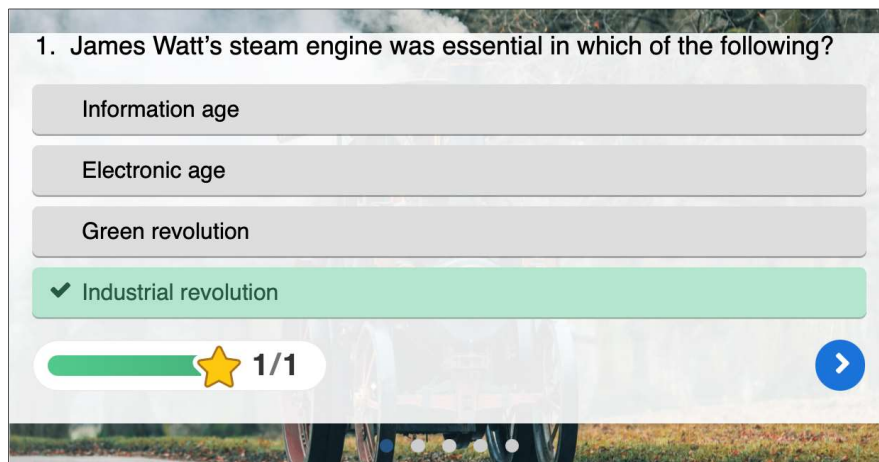
NADGRADNJA
(ang. AUGMENTATION) - IKT nadomesti prej uporabljena učila oz. učne pripomočke, ob uvajanju manjših funkcionalnosti, ki spodbujajo kognitivne procese študentov.

* Višji kognitivni procesi: odločanje, presojanje, sklepanje, reševanje problemov, ustvarjalnost

Self-evaluation, repetition and consolidation of knowledge

Question

Set



1. James Watt's steam engine was essential in which of the following?

- Information age
- Electronic age
- Green revolution
- ✓ Industrial revolution

Progress bar: 1/1 (star icon)

Next button: >

The screenshot shows a quiz question interface. The question is "1. James Watt's steam engine was essential in which of the following?". There are four options: "Information age", "Electronic age", "Green revolution", and "Industrial revolution". The "Industrial revolution" option is selected and highlighted in green, with a checkmark icon to its left. Below the options is a progress bar showing "1/1" with a yellow star icon. To the right of the progress bar is a blue circular button with a white right-pointing arrow.



Self-evaluation, repetition and consolidation of knowledge

Question Mark the Words
Set

1. James Watt's steam engine was essential in which of the following?

- Information age
- Electronic age
- Green revolution
- ✓ Industrial revolution

★ 1/1

Choose one word to make a sentence true.

Another way to state Newton's First Law is that all objects have mass / inertia ✓⁺¹. Inertia depends on the weight/ mass ✓⁺¹ of an object. The less / greater ✓⁺¹ the mass of an object, the more inertia it has. Newton's First Law of Motion is also called the law of inertia ✓⁺¹ / velocity. The greater an object's mass, the larger ✓⁺¹ / smaller the force needed to overcome the inertia.

★ 5/5



Self-evaluation, repetition and consolidation of knowledge

Question

Mark the Words

Summary

Set

1. James Watt's steam engine was essential in which of

- Information age
- Electronic age
- Green revolution
- ✓ Industrial revolution

Choose one word to make a
Another way to state Newton
on the weight/ **mass** ⁺¹ ✓ of a
inertia it has. Newton's First
greater an object's mass, the

★ 1/1

★ 5/5

The sporophyte generation is diploid (2n). ✓

Choose the correct statement that best applies to the ANGIOSPERM LIFE CYCLE.

✓ Progress: 1/25

- Sporangia tissue (micro and mega) is haploid (n).
- Sporangia tissue (micro and mega) is triploid (3n).
- Sporangia tissue (micro and mega) is diploid (2n).



Self-evaluation, repetition and consolidation of knowledge

Question Set	Mark the Words	Summary	Advanced fill the blanks
<p>1. James Watt's steam engine was essential in which of</p> <ul style="list-style-type: none">Information ageElectronic ageGreen revolution✓ Industrial revolution <p>1/1</p>	<p>Choose one word to make a</p> <p>Another way to state Newton on the weight/ mass ⁺¹ ✓ of a inertia it has. Newton's First greater an object's mass, the</p> <p>5/5</p>	<p>The sporophyte genera</p> <p>Choose the correct sta</p> <p>LIFE CYCLE.</p> <ul style="list-style-type: none">Sporangia tissue (microSporangia tissue (microSporangia tissue (micro	<p>Fill in the missing words</p> <p>Action potential is characterized by it's " <input type="text"/> " phenomenon.</p> <p>An increase in Na+ permeability results in the <input type="text"/> ⁱ of the cell.</p> <p>Hyperpolarization occurs when <input type="text"/> ions leave the cell?</p> <p>Action potential is initiated at the <input type="text"/> ⁱ and propagates in a downstream direction.</p> <p>ATPase pumps and ion exchanger channels are involved in maintaining <input type="text"/>.</p> <p>Check</p>

Self-evaluation, repetition and consolidation of knowledge

COLUMN

What was the purpose of the Kon-Tiki Expedition?

- A journey to the heart of the Amazon rainforest to categorize a rare species of frog before it went extinct.
- A journey by raft across the Pacific Ocean from South America to the Polynesian islands, led by Norwegian explorer Thor Heyerdahl.
- A mission to rescue the Norwegian crown prince from pirates in the caribbean.

Check

"Kon Tiki" is said to be the old name for the Inca Sun God Viracocha.

True False


Check

The Crew

Kon-Tiki had a six-man crew, all of whom were Norwegian except for Bengt Danielsson, a Swede. The expedition also carried a pet parrot named Lorta.

[wikipedia](#)

Match the roles of the Kon-Tiki crew members with their image:



- Engineer
- Steward
- Leader
- Radio Expert
- Sailor and Painter
- Radio Expert

ESSAY

Please describe the novel *"The Hobbit"* by J.R.R. Tolkien with at least 100 characters and up to 500 characters.

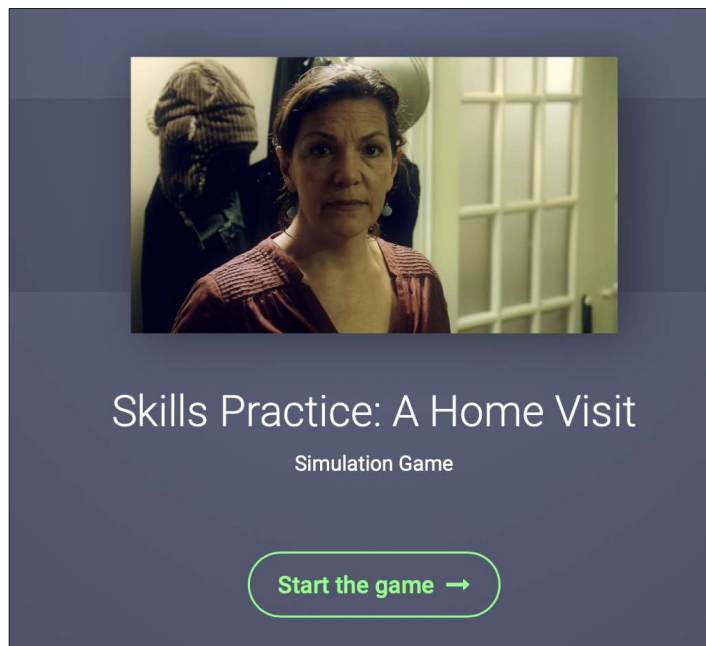
In a hole in the ground there lived a hobbit ...

Remaining characters: 500

Check

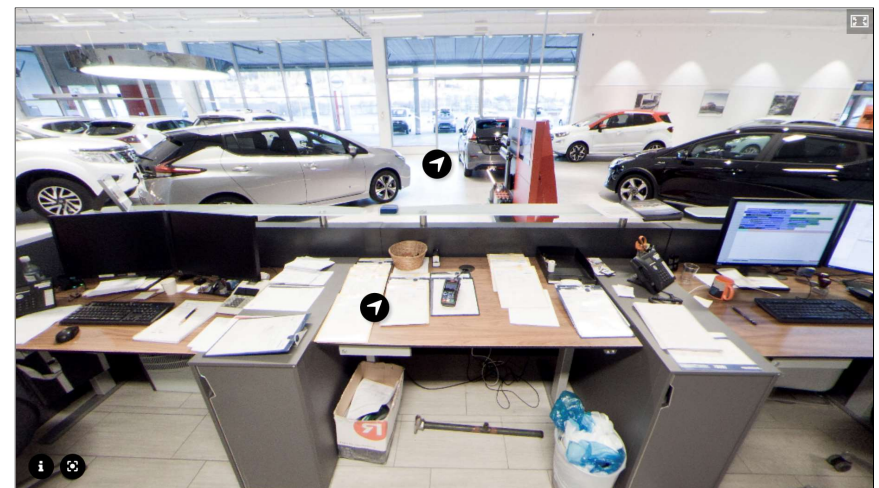
Adaptive learning

Branching scenario



The image shows a screenshot of a simulation game interface. At the top, there is a video thumbnail showing a woman in a red top looking concerned, with a person in a dark jacket and hat behind her. Below the thumbnail, the text reads "Skills Practice: A Home Visit" and "Simulation Game". At the bottom, there is a green button with the text "Start the game →".

Virtual tour



Gamification

Flash cards

Your task is to tell me how many hydrogen would be needed to complete each hydrocarbon.

1 / 12

C-C-C-C

How many H?

Your answer

Memory game

Sample	Data	Numerical characteristic of the population estimated by a statistic	Quantitative continuous data
Parameter	Statistic	Actual Values of the variables	Population
A number that represents a property of a sample	A portion or subset of a population	Qualitative Data	Results of describing attributes of a population
?	?	?	?

Time spent: 1:32
Card turns: 44



Project-based learning

DOCUMENTATION TOOL

Document your project!

- Document your project
- Goals
- Plan
- Project work
- Evaluation
- Goals assessment
- Done

Document your project [Read more](#)

This wizard allows you to document how you work on your project in a structured way.

In order to document your project properly, you should include the following steps:

1. Goals
2. Plan
3. Project work
4. Evaluation
5. Goals assessment

It's important you take notes during your actual project work. You'll make good use of them here.

Start by submitting the title of your project:

Start date:

Your name:

[←](#) [→](#)

Thank you for
attention!

Any questions?

You can contact me at:
tadeja.nemanic@uni-lj.si

