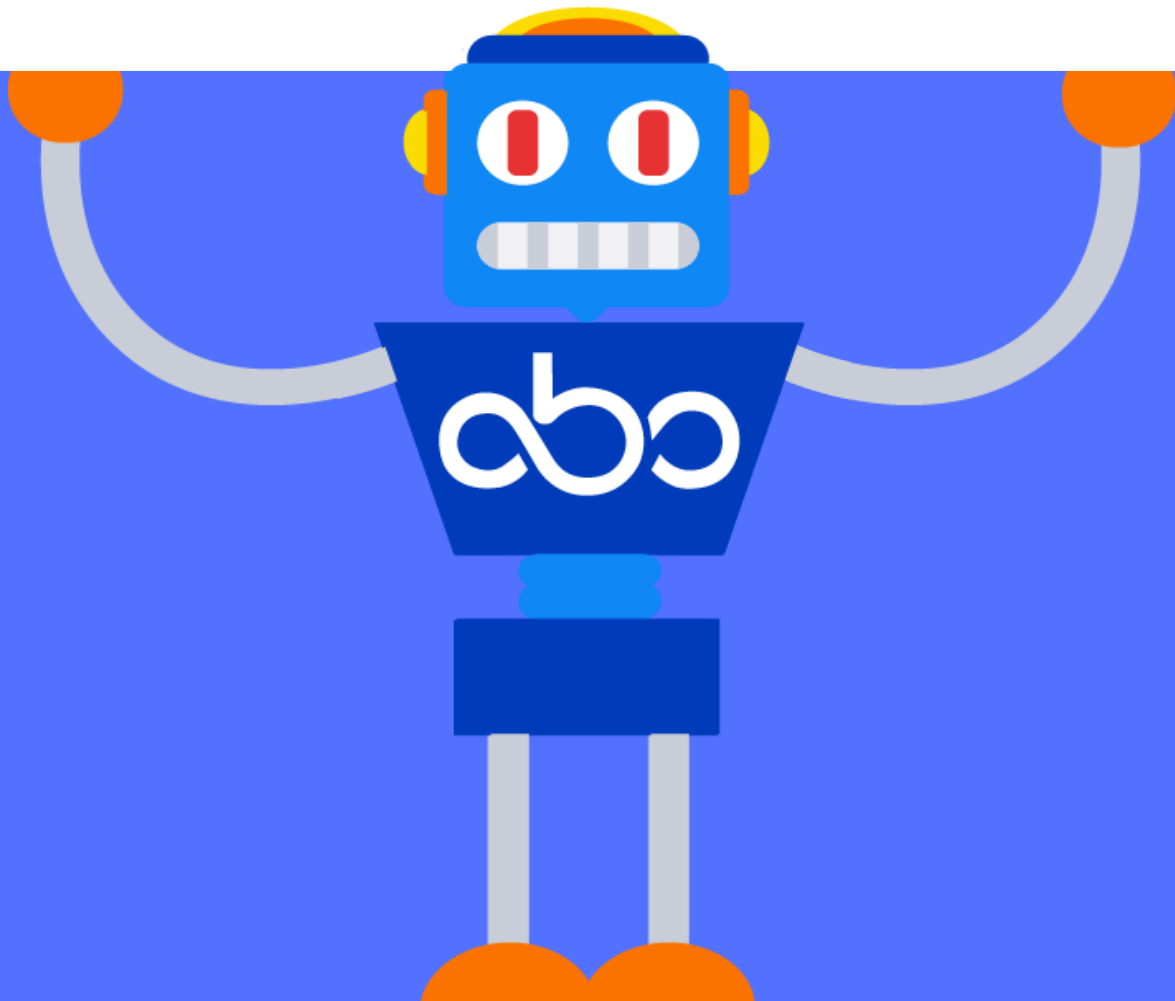




EU FOR ALL

Using Sustainable Entrepreneurship to Rebuild European Heritage for Everyone





The resources of the EU FOR ALL project, including the materials kit, 3D models, and educational proposals, are undergoing continuous improvement. We are constantly working to incorporate new ideas, adjustments, and contributions from the participating teams. Therefore, both the documents and files may be reviewed and updated over time.

www.euforall3dproject.com

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PARTNERS:



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- Create a 3D design of the selected monument
- Prepare files and printing parameters
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- Write a prompt!
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- Place it in the Alrt Museum frame
- Tell us about your artwork

Terms of Use and Funding

- Licensing, credits, and Erasmus+ co-funding






👁️ Czech Republic and its culture

About Czech Republic

The Czech Republic is one of the twenty-seven sovereign states that make up the European Union. Its capital is Prague. Located in Central Europe, it is a landlocked country. It borders Poland to the north, Slovakia to the east, Austria to the south, and Germany to the west.

The dissolution of Czechoslovakia in 1993 marked the birth of the Czech Republic as an independent state, leading to a process of democratic and economic consolidation. In 2004, the country became a member of the European Union, strengthening its integration into Europe's political and economic framework.

<u>Map of Prague</u>	<u>Geographic information</u>
	<ul style="list-style-type: none"> • Capital: Prague • Area: 78,866 km² • Population: 10.7 million • Official language: Czech • Currency: Czech koruna (CZK) • Climate: The climate in the Czech Republic is temperate continental, with warm and humid summers, and cold winters with snowfall, especially in the mountainous areas.

Culture

In the Czech Republic, traditional clothing varies by region, but generally, women wear the "kroj," a colorful set of skirts, embroidered blouses, and aprons, while men wear embroidered shirts, vests, and linen or leather pants. These outfits are worn during festivals and folkloric events.


Regarding gastronomy, one of the most typical dishes is "Vepřo knedlo zelo," which consists of roasted pork served with dumplings (knedlíky) and sauerkraut.

Other Interesting Facts

- **Festivals:** One of the most popular festivals is the "Burning of the Witches," celebrated on April 30th. During this tradition, bonfires are lit to symbolize the end of winter, and a figure representing a witch is burned.
- **Heritage:** The Czech Republic has several UNESCO World Heritage sites, including the Historic Center of Prague, the Český Krumlov Castle, and the Holy Trinity Column in Olomouc.
- **Sports:** The most popular sport is ice hockey, where the Czech national team has won numerous international titles.

 **Let's look for it in the European Union.**

Where is Czech Republic,? Can you find it? Color it on the map and mark where the capital, Prague, is located. Once you find it, mark the city's location with a colored dot.

 Marks the city of Prague

 **Reading Comprehension**

After reading the information about Czech Republic, answer the following questions:

- Does Czech Republic belong to the European Union?
- Where is it located?
- What is its climate like?
- What currency do they use?
- What are some UNESCO World Heritage sites in the country?



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Virtual Tour in Prague

Prague is a city located on the banks of the Vltava River and is divided into two main areas: the Old Town (Staré Město) and the New Town (Nové Město). Could you find out in which area the Clock Tower is located? Create an itinerary to see at least 3 important landmarks in the city and finish at the Clock Tower.

- You can use apps like Google Maps, Wikipedia, etc.

Write your itinerary here



Fun with Flags

Search for information about the flag of Czech Republic and write down the aspects that stand out to you the most.



The frag of Czech Republic...



Look for some information about the building

- In what year was it built and by whom?
- What functions does the Astronomical Clock have?
- Can you find the exact coordinates of the building?
- What symbols appear on the clock?
- What happens every time the clock strikes the hour?

- It was built by...

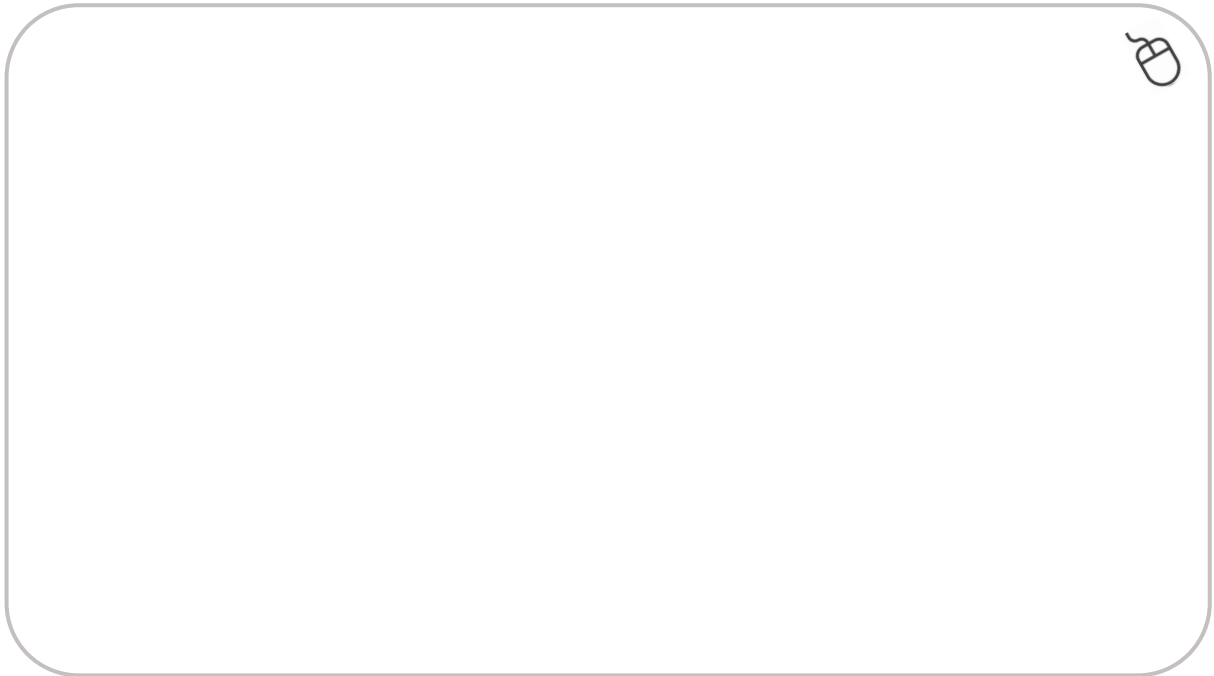
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🕒 Design test! Countdown!

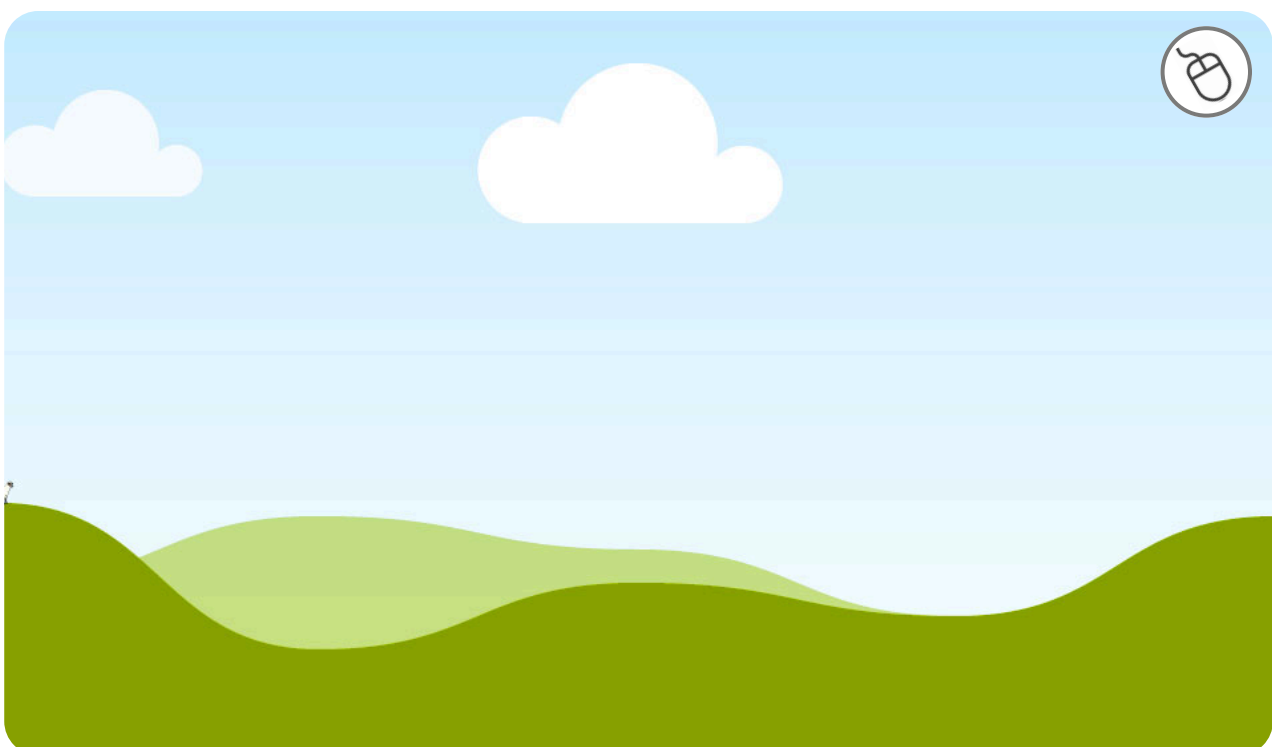
If you had to draw the Clock Tower using basic geometric shapes, how would you do it? Remember not to draw details. You have __ : __ minutes.

Geometric shapes



🌟 Create your digital postcard!

Prague is a city located on the banks of the Vltava River. Could you find which area the Clock Tower is in? Take a screenshot or find a photo of the monument, insert it into the frame, and create your postcard of Prague. You can use Google Earth or Google Maps.





3D Design of the building

Do you dare to design the Clock Tower? Follow the instructions given in the tutorial video.

We recommend:

- Search for the monument on Google Earth.
- Download photos from different viewpoints.



Printing parameters

We've tested these designs with parameters that gave us great results using PLA as the material. That said, every 3D printer is different, so you might need to tweak some settings to achieve the best quality.

That's the wonderful (and sometimes frustrating) part of 3D printing! We encourage you to experiment and adapt the settings to your machine. If you improve the results, let us know!

Layer height	0,2 mm	Walls	2
Speed	270 mm/s	Top/Bottom Layers	4/3
Temperature	190°C - 210°C	Travel Speed	300 mm/s
Infill	15%	Bed adhesion	No

It's important to consider factors such as whether your printer requires supports for certain parts of the model, how it handles bridging, and other details that may vary depending on your machine and the slicer you use.



📺 Create your video about Slovenia

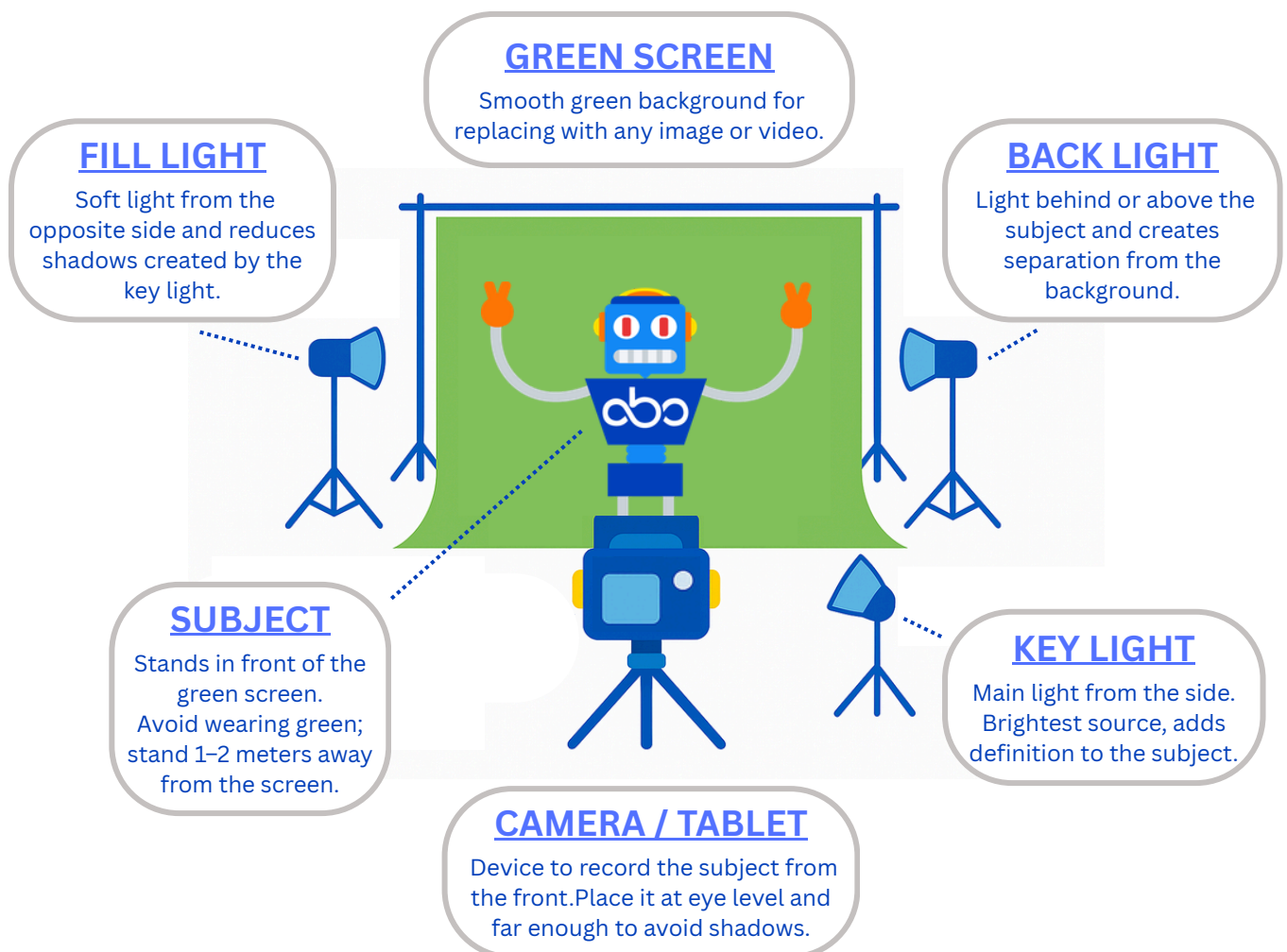
Create a **short video** where you present your virtual tour itinerary of the country you studied, using a **green screen background**.... What do you have to do?

- Think about the **route** you created in your “Virtual Tour” activity.
- Write a **short script** as if you were a travel guide or presenter. Example:

“Hi, I’m [Name] and welcome to our tour in [Country]! Today we’ll visit three amazing places. We start in... and finish in...”

- Use a **green wall, a simple colored background** or a green cloth.
- **Record your video** using a tablet or smartphone.
- Add your **digital postcard** or **background image** using CapCu or OBS Studio
- **Share your video** with your class and with us at www.euforall3d.com!

[This is how you should set up your green screen to record your video correctly!](#)





Let's learn how to use artificial intelligence

Design a creative image using artificial intelligence, based on what you've learned about the country. Your artwork will be part of our European Digital Alrt Museum! What do you have to do?

- **Think about what you've discovered:** monuments, traditional clothes, nature, legends, people, food...
- **Imagine a picture** that shows all that. It can be real, magical... or both!
- **Write a prompt** to tell the AI what to create.

What is a prompt?

A prompt is a sentence or idea you give to an AI image tool. It helps the tool understand exactly what kind of picture you want. The more creative and clear you are, the better the image will be!

Example:

"A child in traditional [Country] clothes standing in front of a magical castleduring a festival with fireworks."

- **Use an AI tool** like Deep AI or Canva AI to create your image.
- Save or print your artwork and place it in the special frame for our *European Digital Alrt Museum*.
- **Give your image a title and write one short sentence** explaining what it shows.



Add the title

My artwork represents a....

Please provide the title of the work, the artist's full name, country of origin, and age

My artwork represents a....



Share your artwork at the European Digital Art Museum: www.euforall3d.com

Terms of Use and Funding

The educational materials developed within the framework of the EU FOR ALL project, led by the consortium of OBO - We Teach Robotics, have been designed to promote digital inclusion and technological literacy.



These materials aim to provide accessible and engaging learning experiences that foster key competencies in digital skills, problem-solving, and critical thinking. Through interactive and hands-on approaches, the project seeks to empower learners of all backgrounds by equipping them with the necessary tools to navigate an increasingly digital world.

Developed in collaboration with experts in education, technology, and inclusion, these resources reflect the commitment of the EU FOR ALL consortium to innovation in education and the reduction of the digital divide.

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Co-financing Emblem

This material has been developed within the framework of the Erasmus+ Programme and has received co-funding from the European Union.



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