

AI I MULTIMODALNOST U NASTAVI BIOLOGIJE



ŽSV učitelja prirode i biologije

Osnovna škola Dore Pejačević Našice

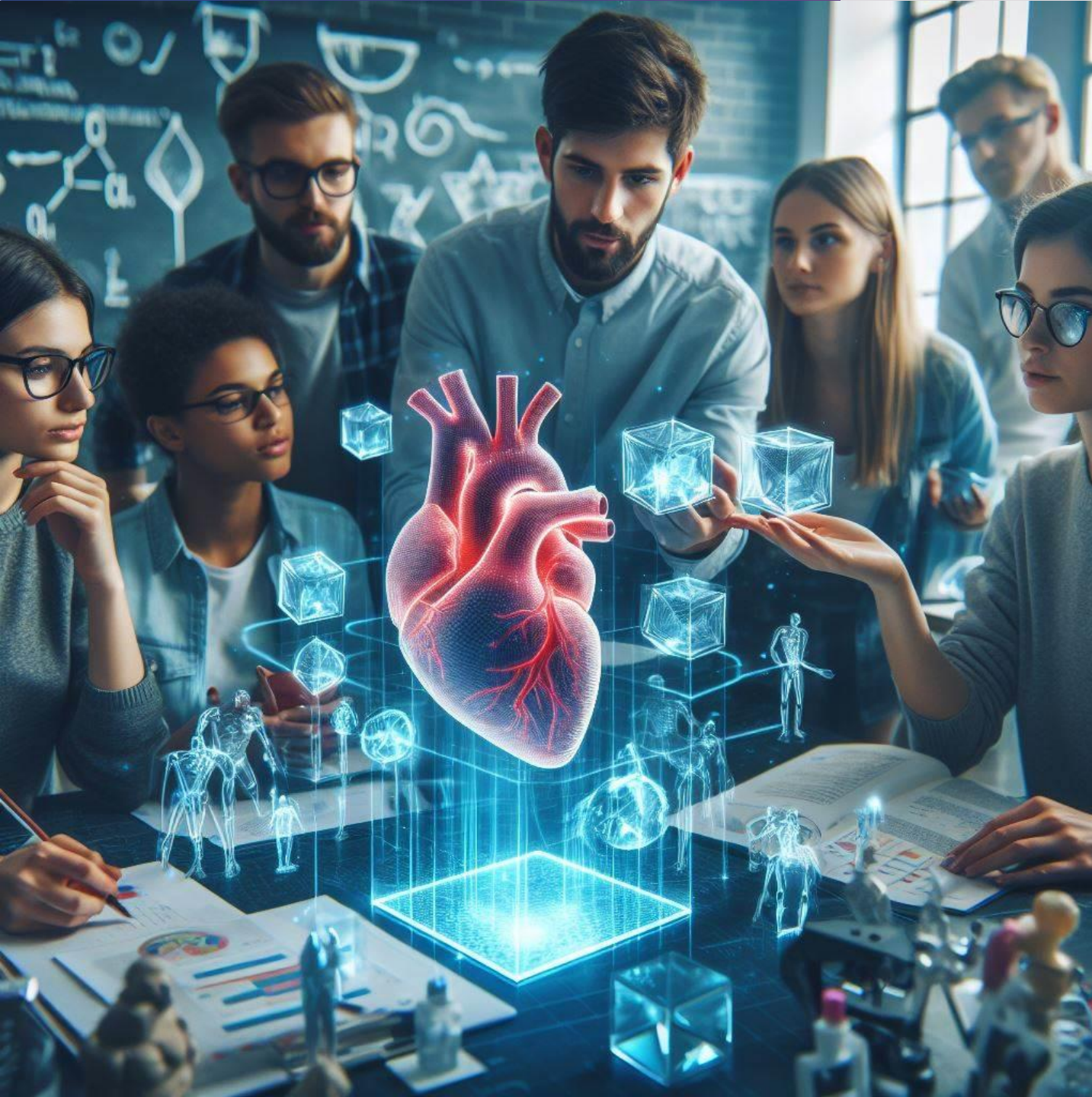
20.2.2024.

IVANA HRASTOVIĆ MANDARIĆ

ALENKA TASLAK



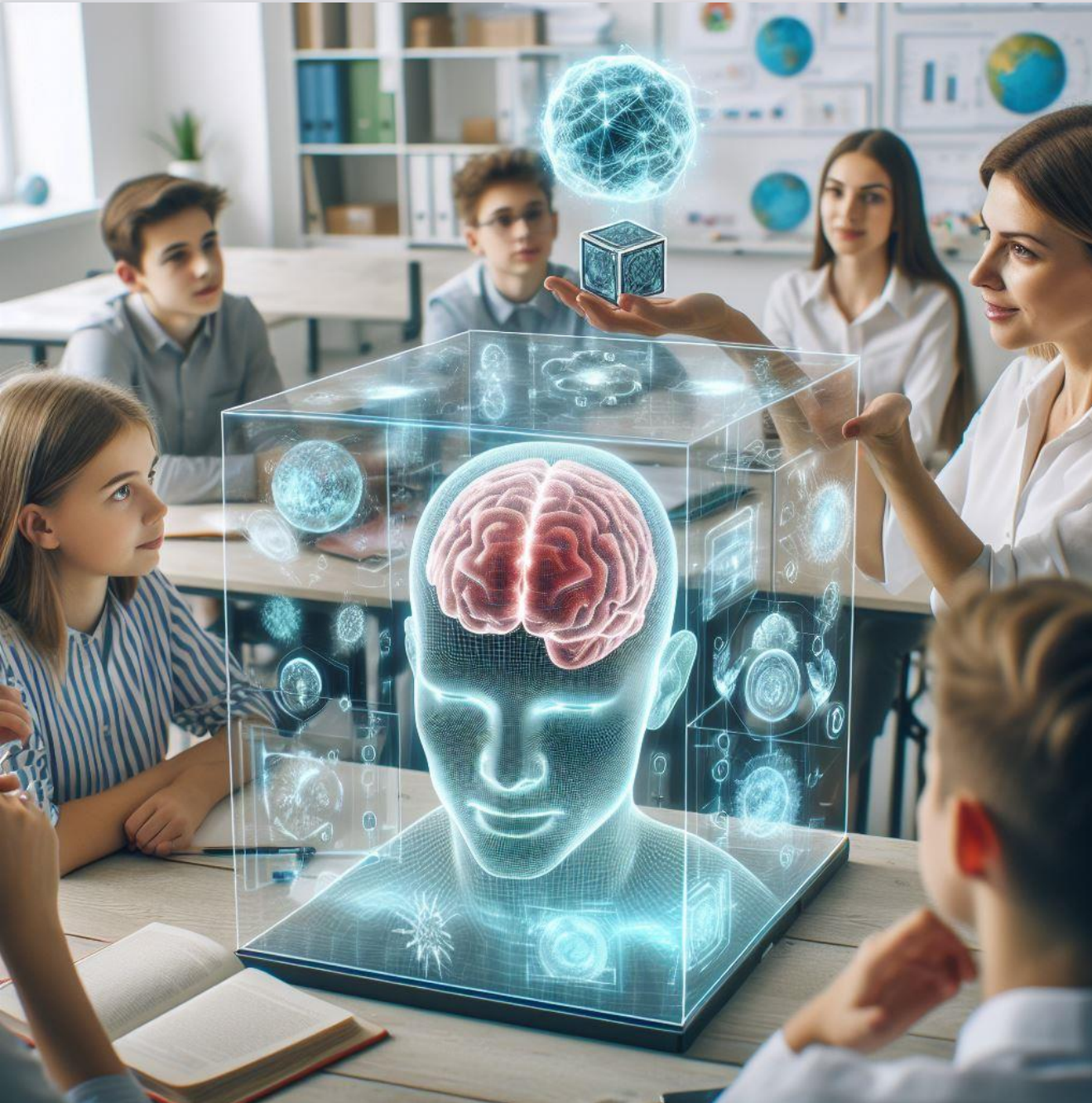
Images created by Microsoft Designer



ŠTO JE MULTIMODALNOST?

Multimodalnost uključuje korištenje različitih načina komunikacije kako bi se poboljšalo razumijevanje gradiva.

To uključuje integraciju teksta, slika, videa i zvuka kako bismo stvorili dinamično učenje.



PREDNOSTI MULTIMODALNOSTI U NASTAVI BIOLOGIJE

Raznolikost učenja: različiti učenici preferiraju različite modalitete, a multimodalnost zadovoljava različite stilove učenja.

Aktivno učenje: dinamični sadržaji pobuđuju interes i motiviraju učenike.

Vizualizacija koncepta: slike i videi olakšavaju razumijevanje kompleksnih bioloških pojmova.

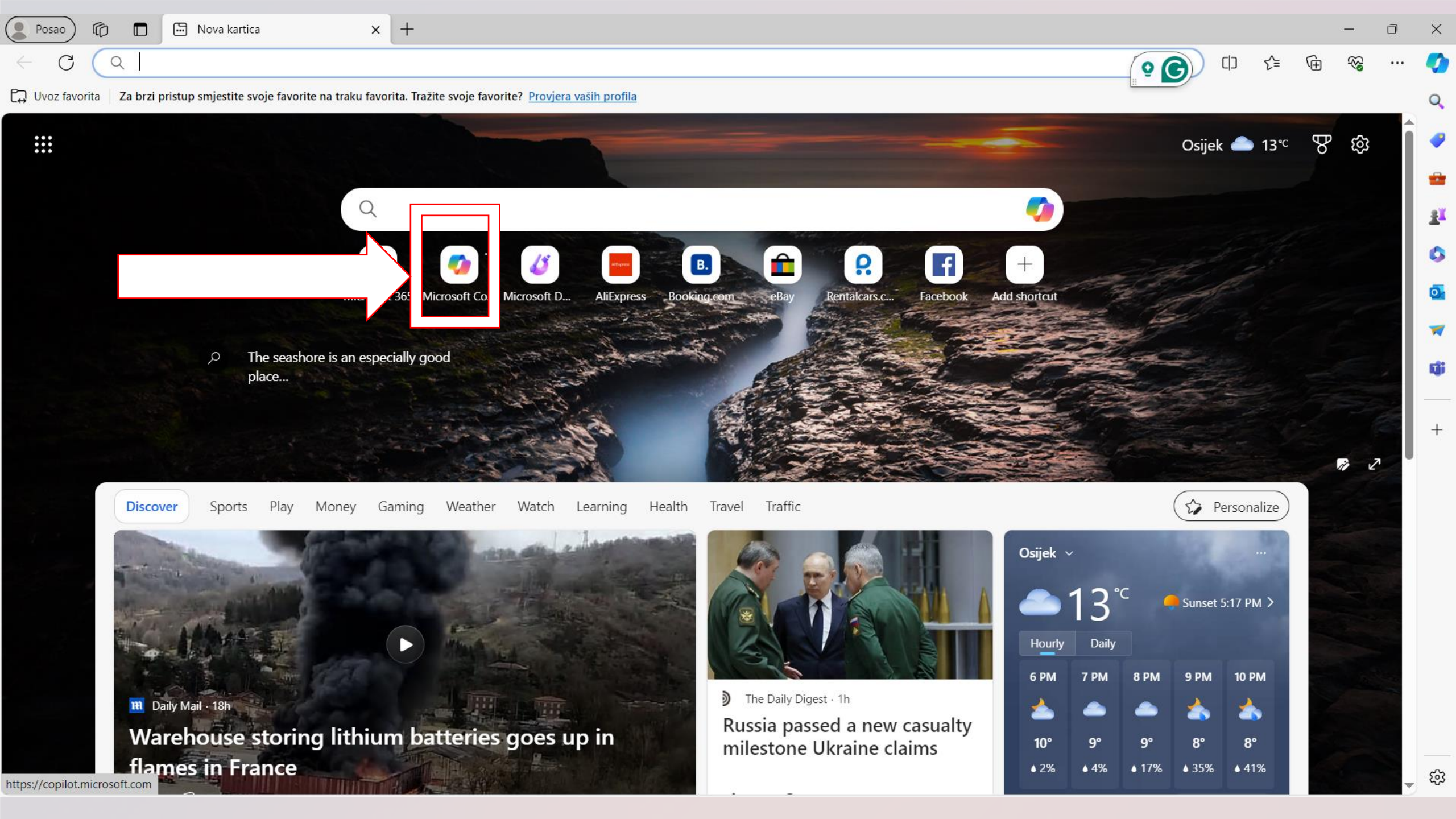


INTEGRACIJA AI I MULTIMODALNOSTI U NASTAVI BIOLOGIJE

Personalizirano učenje – AI prilagođava nastavu prema individualnim potrebama učenika:

- interaktivne prezentacije (Kahoot, Narakeet)
- virtualni laboratoriji (multimodalni elementi za simulaciju i biološke eksperimente)
- online platforme za praćenje napretka (kombinacija tekstualnih materijala s interaktivnim zadacima)






Uvoz favorita Za brzi pristup smjestite svoje favorite na traku favorita. Tražite svoje favorite? [Provjera vaših profila](#)

Osijek 13°C

Search bar with magnifying glass icon and Copilot icon on the right.

-  Microsoft Co
-  Microsoft D...
-  AliExpress
-  Booking.com
-  eBay
-  Rentalcars.c...
-  Facebook
-  Add shortcut

The seashore is an especially good place...

- Discover
- Sports
- Play
- Money
- Gaming
- Weather
- Watch
- Learning
- Health
- Travel
- Traffic

Personalize



Daily Mail · 18h

Warehouse storing lithium batteries goes up in flames in France



The Daily Digest · 1h

Russia passed a new casualty milestone Ukraine claims

Osijek

13°C

Sunset 5:17 PM

Hourly Daily

6 PM	7 PM	8 PM	9 PM	10 PM
10°	9°	9°	8°	8°
↓ 2%	↓ 4%	↓ 17%	↓ 35%	↓ 41%

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Dalje



Mogućnosti prijave



Vi

Možeš li napisati scenarij poučavanja za nastavu biologije za nastavnu jedinicu disanje čovjeka koja se obrađuje i uvježbava u sedmom razredu osnovne škole u Hrvatskoj? Navedi ishod poučavanja prema kurikulumu za nastavni predmet biologija. Navedi međupredmetne teme i predloži aktivnosti. Također navedi digitalne alate i predloži aktivnosti koje se mogu provesti pomoću digitalnih alata. Uključu kompetencija za 21. stoljeće te ciljeve održivog razvoja. Predloži aktivnosti za suradnju s drugim školama i zemljama. Navedi oblike formativnog i sumativnog vrednovanja. Kreiraj rubriku za vrednovanje.



Copilot

 Vaši osobni podaci i podaci tvrtke zaštićeni su u ovom čavrljanju

Naravno! Evo scenarija poučavanja za nastavnu jedinicu "Disanje čovjeka" u sedmom razredu osnovne škole u Hrvatskoj:

Scenarij poučavanja: Disanje čovjeka

I. Ishod poučavanja:

Učenici će razumjeti proces disanja kod čovjeka, njegove fiziološke komponente i važnost održavanja zdravog dišnog sustava.

II. Međupredmetne teme:

- **Priroda i društvo:** Povezanost disanja s okolišem i zdravljem.
- **Informatika:** Korištenje digitalnih alata za istraživanje i prezentaciju.

III. Aktivnosti:

1. Anatomija dišnog sustava:

- Učenici istražuju strukturu dišnog sustava (nos, grlo, dušnik, pluća) koristeći udžbenike i online izvore.
- Izrađuju plakate ili digitalne prezentacije o anatomiji dišnog sustava.

2. Funkcija dišnog sustava:

- Učenici proučavaju procese udisanja i izdisanja.
- Simuliraju disanje kroz praktične vježbe (duboko disanje, mjerenje kapaciteta pluća).

3. Zagađenje zraka i zdravlje:

- Učenici istražuju utjecaj onečišćenja zraka na dišni sustav.
- Analiziraju podatke o kvaliteti zraka u njihovom okruženju.

4. Digitalni alati:

- Koriste online simulacije za vizualizaciju procesa disanja.
- Izrađuju digitalne prezentacije ili videozapise o disanju.

5. Kompetencije za 21. stoljeće:

- Razvijaju kritičko razmišljanje, suradnju i komunikacijske vještine kroz grupne zadatke.

6. Ciljevi održivog razvoja:

- Povezuju zdravlje s očuvanjem okoliša.
- Razgovaraju o važnosti čistog zraka za sve ljude.

7. Suradnja s drugim školama i zemljama:

- Organiziraju online rasprave s učenicima iz drugih škola o zdravlju i okolišu.

8. Vrednovanje:

- Formativno: Praćenje sudjelovanja u aktivnostima, prezentacije, kvizovi.
- Sumativno: Pismeni test o dišnom sustavu.

IV. Rubrika za vrednovanje:

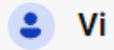
Uredi u programu Excel

Tablica



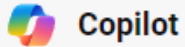
Kriterij	Izvrсно (5)	Vrlo dobro (4)	Dovoljno (3)	Nedovoljno (2)	Nedovoljno (1)
Znanje o anatomiji dišnog sustava					
Razumijevanje procesa disanja					
Kreativnost u prezentaciji					
Suradnja i komunikacija					

Ovaj scenarij potiče interaktivno učenje, digitalnu pismenost i svijest o zdravlju i okolišu. Sretno s poučavanjem! 🌿👥



Vi

Možeš li predložiti online izvore za strukturu dišnog sustava?



Copilot

Vaši osobni podaci i podaci tvrtke zaštićeni su u ovom čavrljanju

Naravno! Evo nekoliko online izvora koji će vam pomoći bolje razumjeti strukturu dišnog sustava:

1. **Usporedbena anatomija dišnog sustava čovjeka i ostalih kralježnjaka:** Ovaj diplomski rad detaljno opisuje usporedbu dišnih sustava kod različitih kralježnjaka, uključujući čovjeka ¹.
2. **Anatomija, dijagram i funkcija dišnog sustava:** Na ovom web mjestu možete pronaći informacije o anatomiji dišnog sustava, uključujući nos, ždrijelo, grkljan, dušnik, pluća i druge komponente ².
3. **Wikipedija - Dišni sustav:** Wikipedija također nudi opsežne informacije o dišnom sustavu, uključujući njegove organe i funkcije ³.
4. **Anatomija i fiziologija dišnog sustava:** Ovdje ćete pronaći detalje o anatomiji dišnog sustava, kao i informacije o mehanici disanja, respiratornim volumenima i drugim aspektima ⁴.

Nadam se da će vam ovi izvori biti korisni za bolje razumijevanje dišnog sustava!

Saznajte više [1](#) repozitorij.mef.unizg.hr [2](#) prirucnik.hr [3](#) hr.wikipedia.org [4](#) microbiologynote.com [5](#) urn.nsk.hr [+5 više](#)



3 od 30 odgovori

Vi

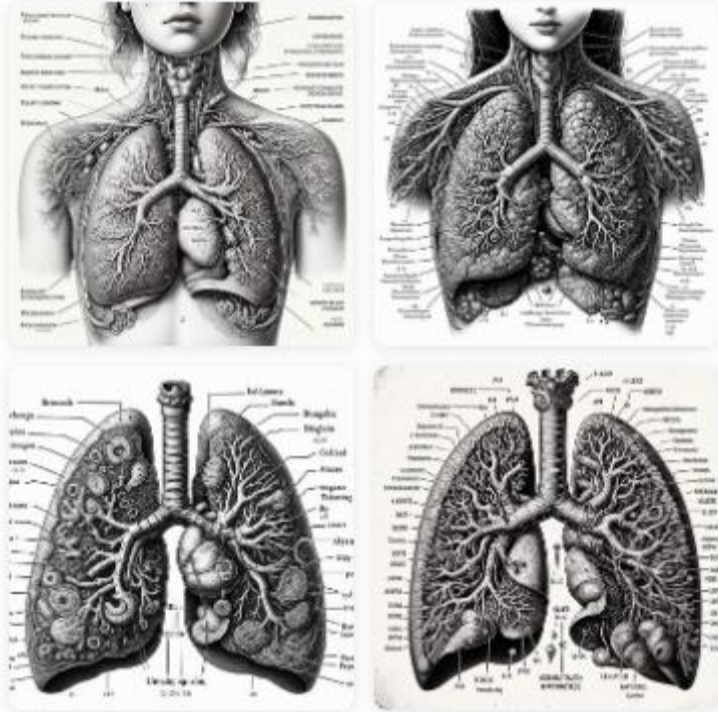
Can you create a realistic modern HD photo of human lungs anatomy?

Copilot

Vaši osobni podaci i podaci tvrtke zaštićeni su u ovom čavrljanju

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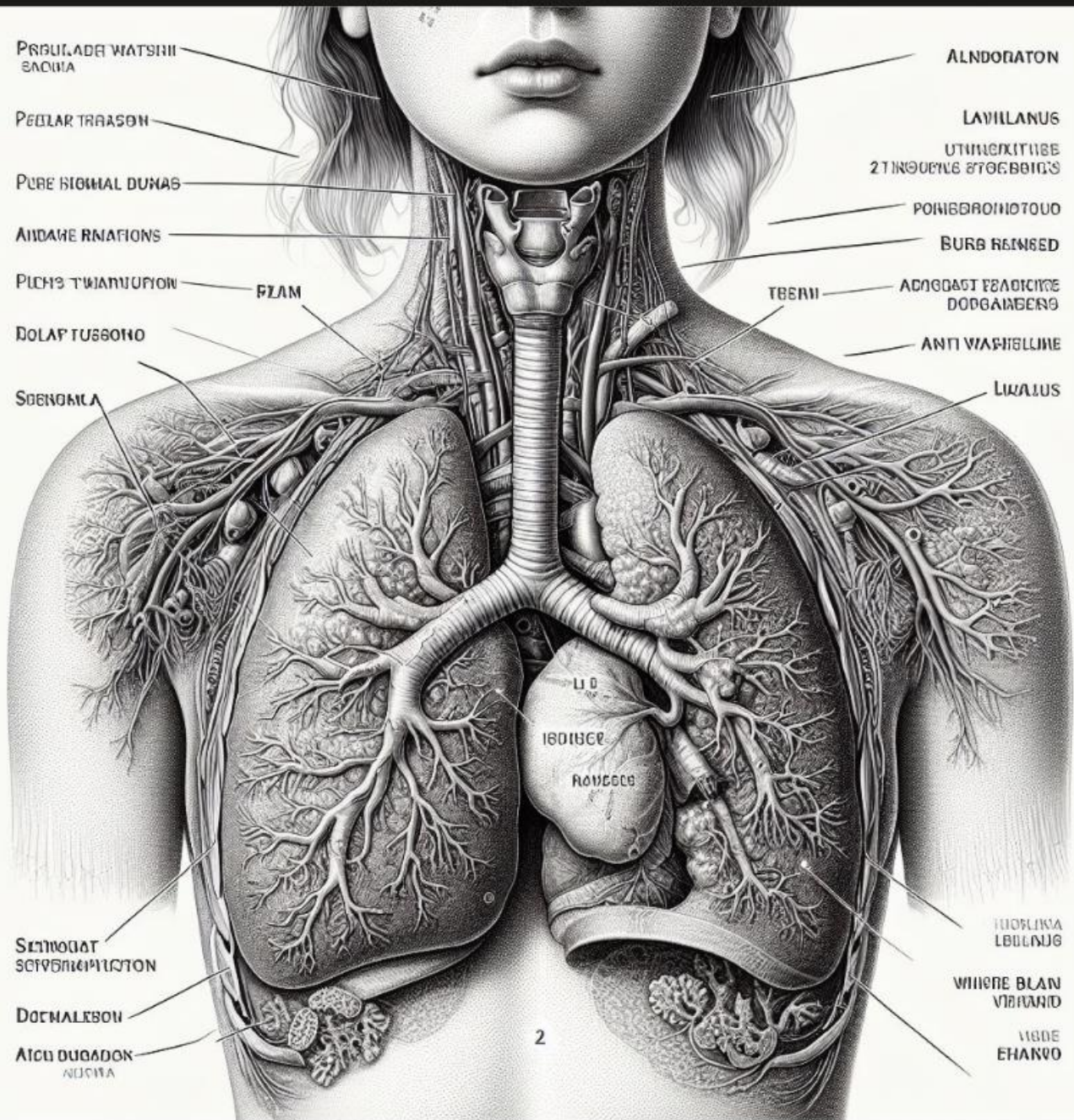
4 od 20 odgovori



"human lungs anatomy"

Designer

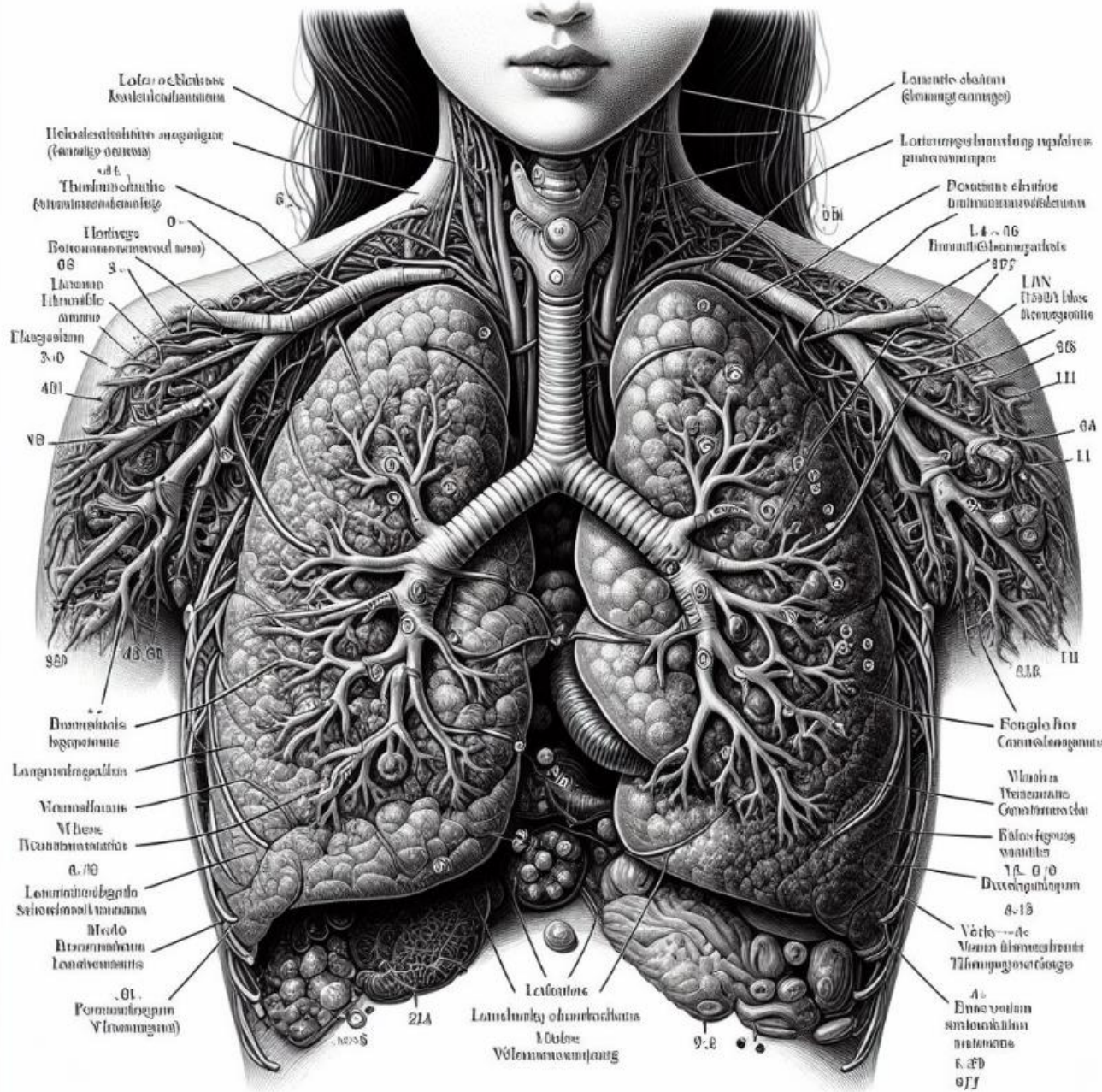
Omogućuje DALL·E 3



human lungs anatomy

Designer | 1024 x 1024 jpg | Prije 1 min

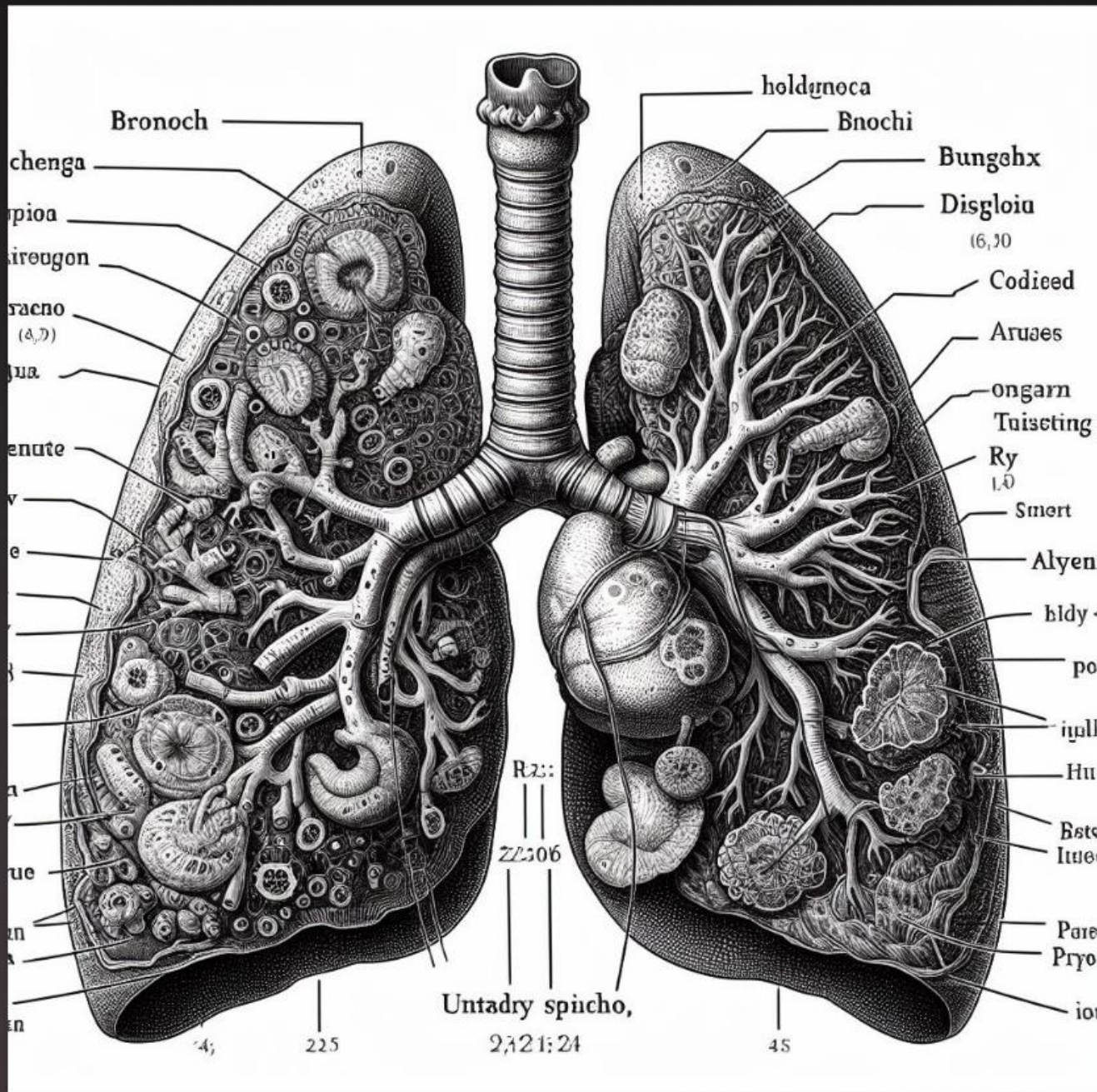
Vjerodajnice za sadržaj
Generirano pomoću umjetne inteligencije - 19. veljače 2024. u 05:56 PM



human lungs anatomy

Designer | 1024 x 1024 jpg | Prije 2 min.

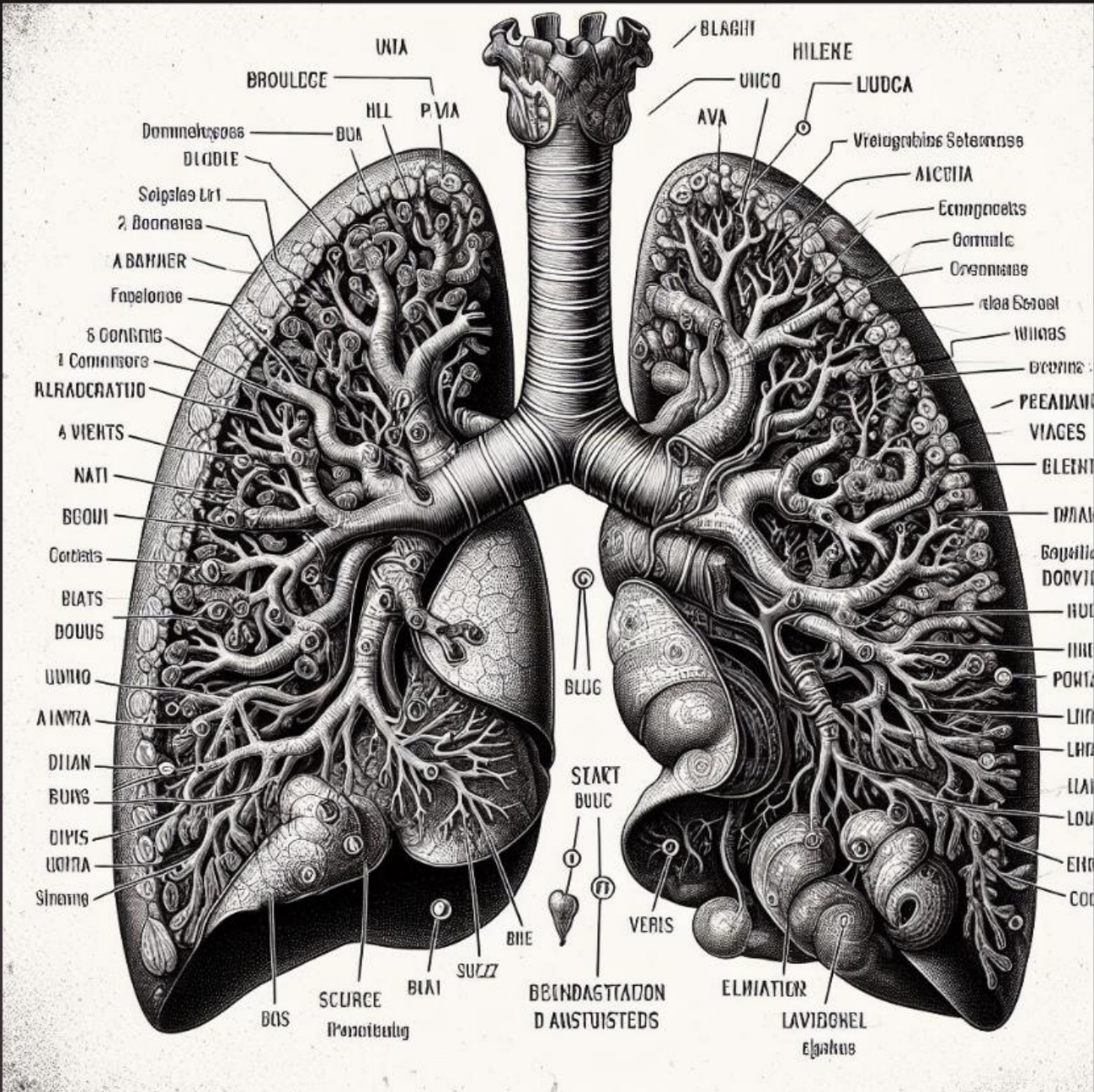
Vjerodajnice za sadržaj
Generirano pomoću umjetne inteligencije · 19. veljače 2024. u 05:56 PM



human lungs anatomy

Designer | 1024 x 1024 jpg | Prije 3 min.

Vjerodajnice za sadržaj
Generirano pomoću umjetne inteligencije · 19. veljače 2024. u 05:56 PM



human lungs anatomy

Designer | 1024 x 1024 jpg | Prije 4 min.

Vjerodajnice za sadržaj
Generirano pomoću umjetne inteligencije - 19. veljače 2024. u 05:56 PM

Okolo ovoliko rezultata: 8,030,000

CARNET

AT

Tko može vidjeti rezultate obrazovne ustanove? ⓘ



Outlook Web Access

<https://outlook.office365.com/owa/>[Prikaži sve rezultate](#)[Pošaljite povratne informacije](#)

Microsoft

<https://www.microsoft.com/en-us/microsoft-365/outlook/log-in>

Outlook Log In | Microsoft 365

Web **Log in** to your Microsoft **Outlook** email account and access your inbox, contacts, and calendar. **Outlook** is the new name for Hotmail, offering the same free email and calendar ...

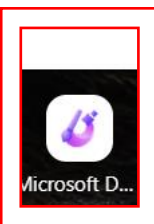
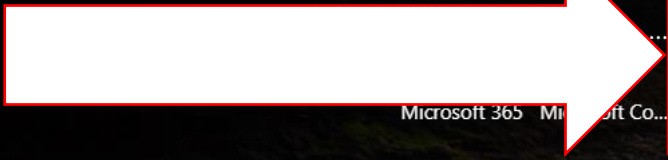
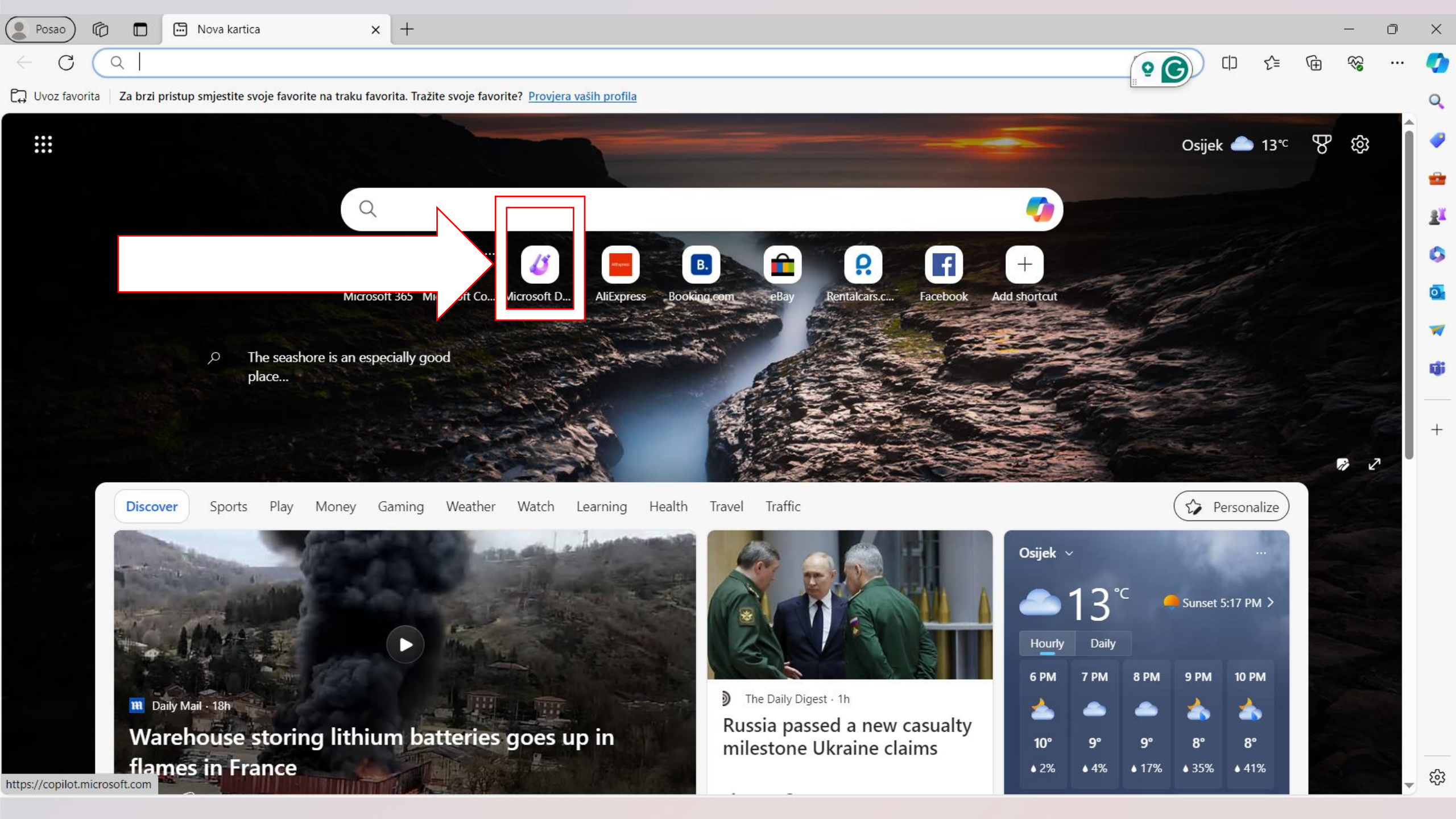
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The seashore is an especially good place...

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Sports Play Money Gaming Weather Watch Learning Health Travel Traffic

Personalize

Daily Mail · 18h

Warehouse storing lithium batteries goes up in flames in France

The Daily Digest · 1h

Russia passed a new casualty milestone Ukraine claims

Osijek

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Sunset 5:17 PM

Hourly Daily

6 PM	7 PM	8 PM	9 PM	10 PM
10°	9°	9°	8°	8°
2%	4%	17%	35%	41%

Get started with generative AI



Image Creator
Create any image you can imagine – just enter in a text description. [Generate](#)



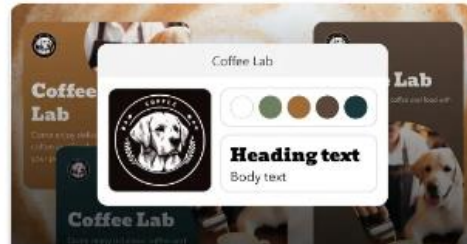
Sticker Creator
Stick out on social, in messaging apps, and more with personalized stickers. [Try it](#)



Design Creator
Describe a design in words and generative AI will create it for you. [Generate](#)



Remove Background
Say goodbye to distracting backgrounds in a single click. [Try it](#)



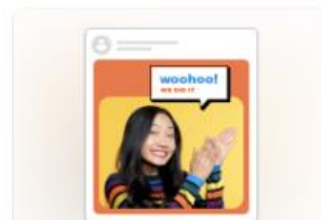
Brand Kit Creator
Use generative AI to create a brand kit – logos, colors, fonts, and more. [Generate](#)



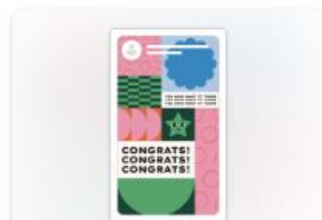
Album Creator
Add your photos for a custom album with collages and animations. [Coming soon](#)

Designs for social media and more

[Browse templates in Microsoft Create](#)



Instagram post
1080 x 1080 px



Instagram stories
1080 x 1920 px



Facebook post
1080 x 1080 px



Facebook ad
1200 x 628 px



Facebook stories
1080 x 1920 px

Can you create a realistic modern HD photo of human lungs anatomy?

Generate





Can you create a realistic modern HD photo of human lungs anatomy?


 Download

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Designer

PREVIEW

Something new

54%



+ New design

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Templates



My media



Visuals

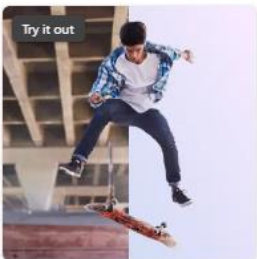


Text

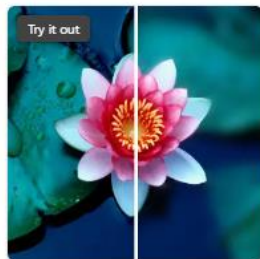


Brand kit

AI tools



Remove background



Blur background

Filters

Show all >



Normal



Punch



Light



Lofi



Calm



Warm



Replace



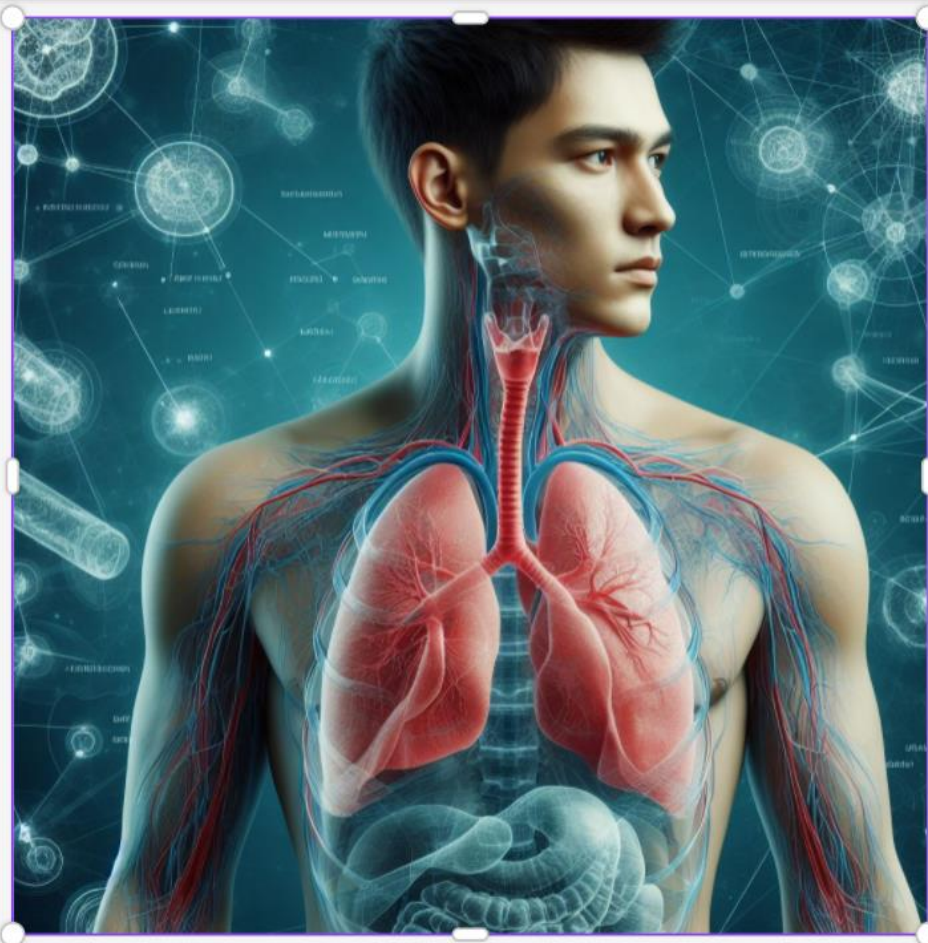
Remove background



Crop



Image tools

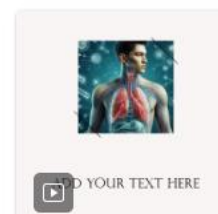


+ Add page

Ideas

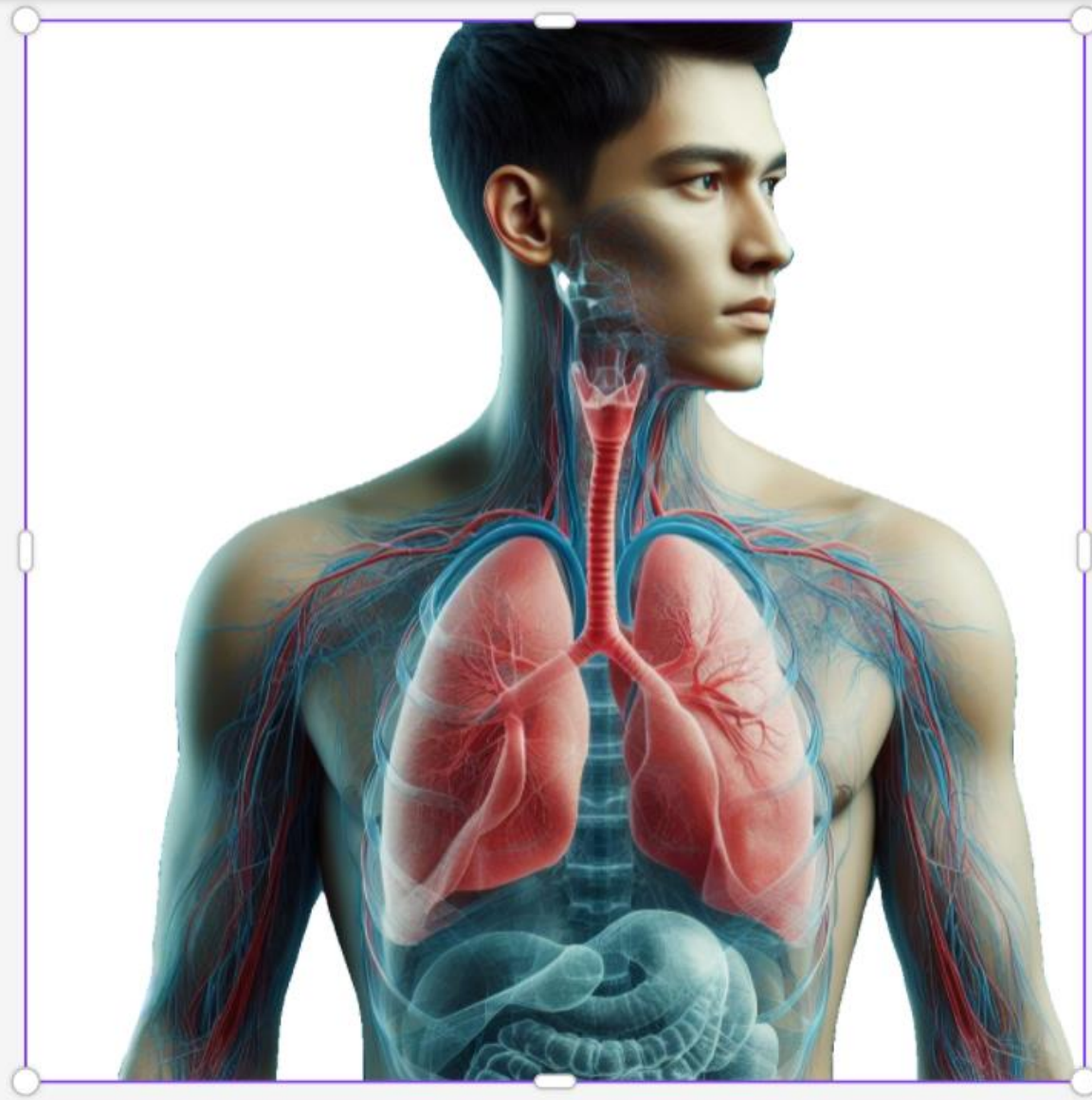


+ New ideas



YOUR TEXT HERE

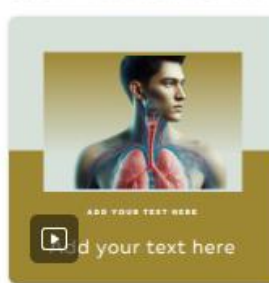
Replace Restore original Crop Image tools



Add page

Ideas

+ New ideas



54%

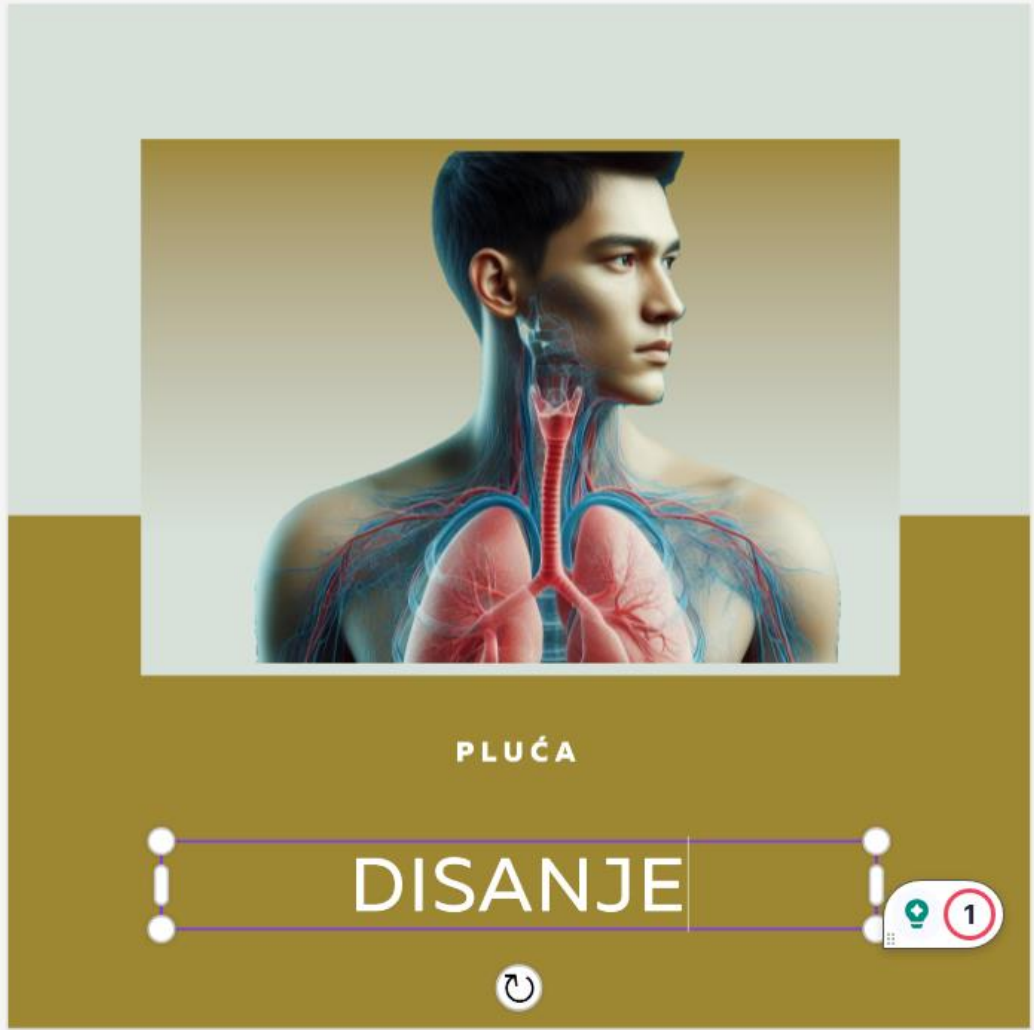


+ New design

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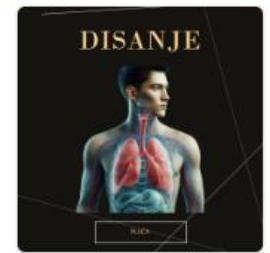
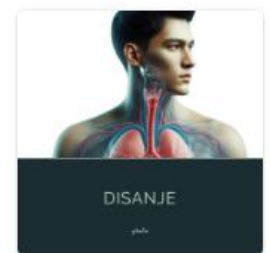
Muller 56 **B** *I* U ~~S~~ Position

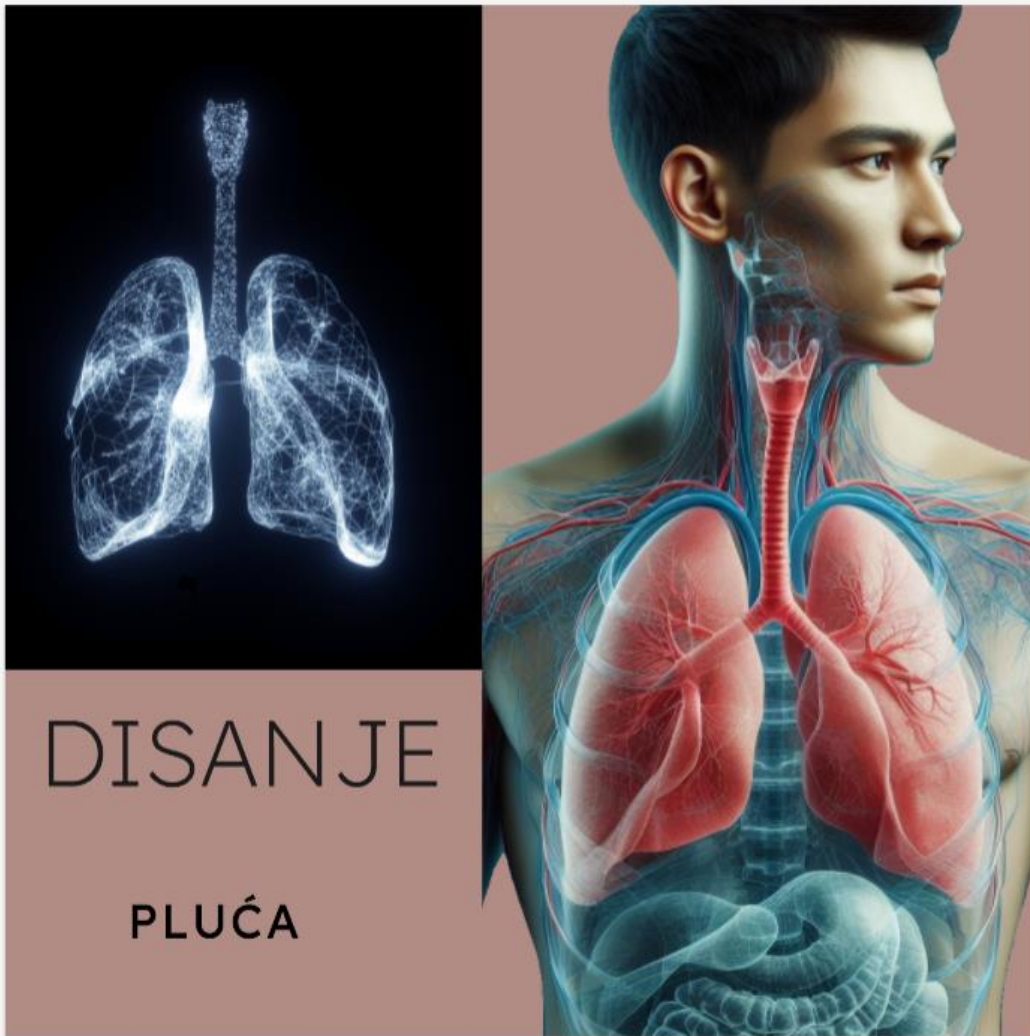


+ Add page

Ideas

+ New ideas

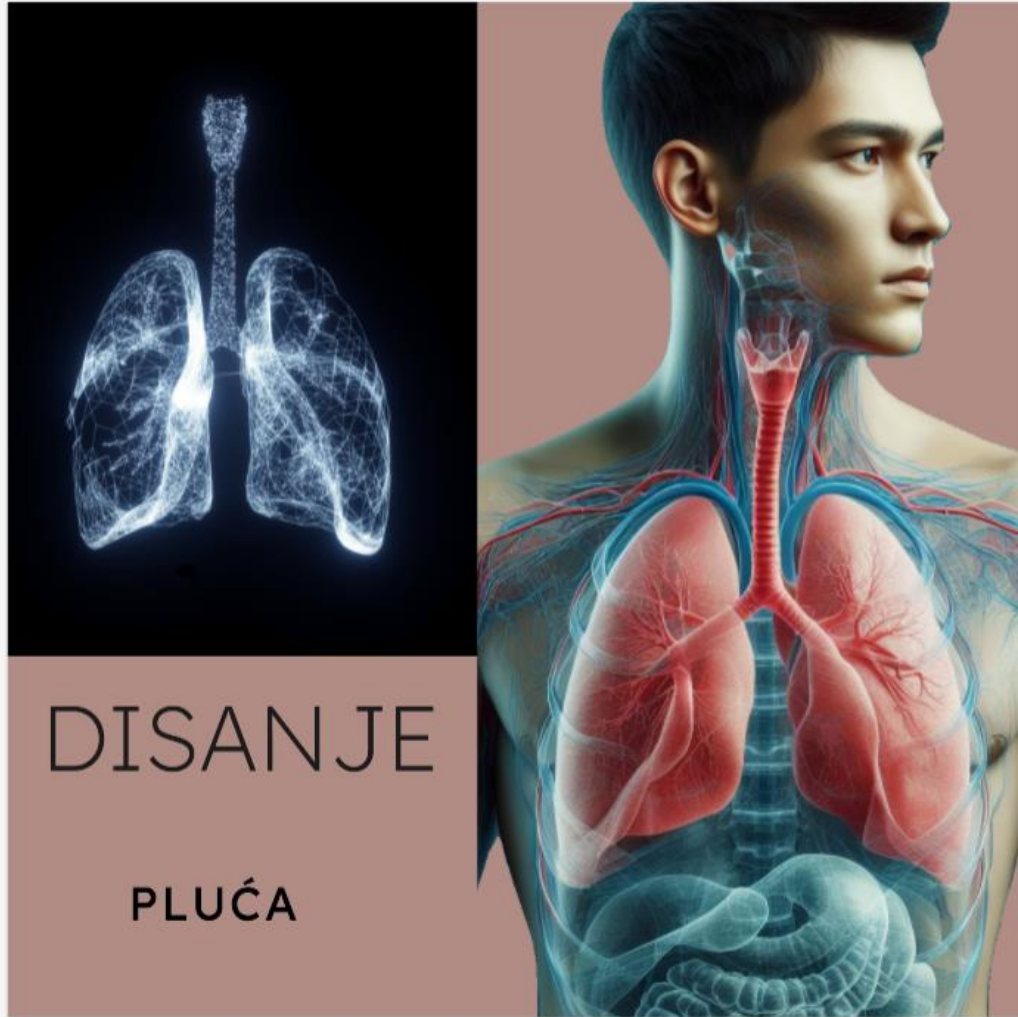




Ideas ×

+ New ideas

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Download your design

Select file type

 PNG (Recommended) ▾

Make background transparent

Download

Copy as image

Send to phone

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OR

Use AI for captions & hashtags



Try it



Možeš li ovo prevesti na engleski: Stvori obrazovni video s objašnjenjima kako funkcioniraju pluća i disanje. Video treba biti namjenjen učenicima u sedmom razredu.

Certainly! Here's the translation:

Create an educational video explaining how the lungs and breathing work. The video should be intended for seventh-grade students.

In this video, we'll explore the fascinating world of our respiratory system and discover how our lungs play a crucial role in keeping us alive. Let's dive in!

1. The Importance of Breathing:

- Our respiratory system's primary job is to bring **oxygen** into our bodies and remove **carbon dioxide**. We'll learn more about this process shortly.
- When you exhale, your respiratory system ensures that carbon dioxide and other waste products leave your body.

2. The Alveoli:

- At the end of each bronchiole (tiny airway), we find **alveoli**—tiny air sacs.
- Alveoli have incredibly thin walls, allowing oxygen to pass through to our red blood cells. This exchange of gases gives energy to our cells.

3. Breathing Techniques:

- One fundamental technique is **diaphragmatic breathing** or **abdominal breathing**. It's the cornerstone of many breathing practices.
- By using our diaphragm, we optimize blood flow through the lungs (perfusion) and ensure efficient air exchange (ventilation).
- Remember, the best perfusion occurs when blood flows through the diaphragm due to gravity.

4. Mental Benefits:

- Deep breathing stimulates the **vagus nerve**, promoting a calming effect on our mental state.
- When you breathe slowly, deeply, and relaxed, your nervous system signals to your brain that everything is okay.

5. Consistency Matters:

- Start with just a minute of slow, controlled breathing each day.
- Gradually extend the practice to 3–5 minutes daily.
- Consistency is key—dramatic improvements await those who persist.

Remember, our breath is a powerful tool—one that's always available to us. So, let's appreciate our lungs and breathe consciously! 🙌


Feel free to explore additional resources like videos on platforms such as **YouTube** or **National Geographic** to enhance your understanding of the respiratory system ¹ ². Happy learning! 📖🌟



invideo AI




 invideo AI



Model: Premium AI 


Create an educational video explaining how the lungs and breathing work. The video should be intended for seventh-grade students. The video should be no longer than 1 minute.

175/3600



Generate a video 

 Clone your voice 


 History

Workflows:

YouTube Explainer

Script to Video

YouTube Shorts

Explore all 

A

Create an educational video explaining how the lungs and breathing work. The video should be intended for seventh-grade students. The video should be no longer than 1 minute.

Analysis completed ✓



Still thinking 🔄

A

Create an educational video explaining how the lungs and breathing work. The video should be intended for seventh-grade students. The video should be no longer than 1 minute.

Analysis completed ✓

Title: Breathing Life: A Journey Through Our Lungs ✓



Preparing 🔄



invideo AI

Breathing Life: A Journey Through Our Lungs

Audience

Seventh-Grade Students

Science Enthusiasts

Educators

Look and Feel

Minimalist Modern

Bright

Inspiring

Platform

Youtube

Facebook

Instagram

Edit prompt

Continue

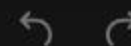
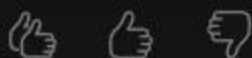


This might take a few minutes.

5% of the video is ready

○ Planning the script

5%



Edit

Export ▾

Generate >



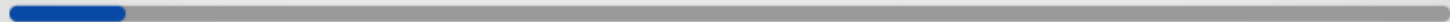
This might take a few minutes.

0 of 1 scenes are ready

1. Breathing Life: A Journey Thr...

↻ synthesizing voice

8%



Edit

Export ▾

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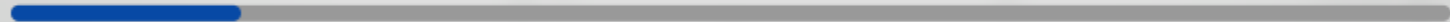
This might take a few minutes.

0 of 1 scenes are ready

1. Breathing Life: A Journey Thr...

↻ adding media tracks

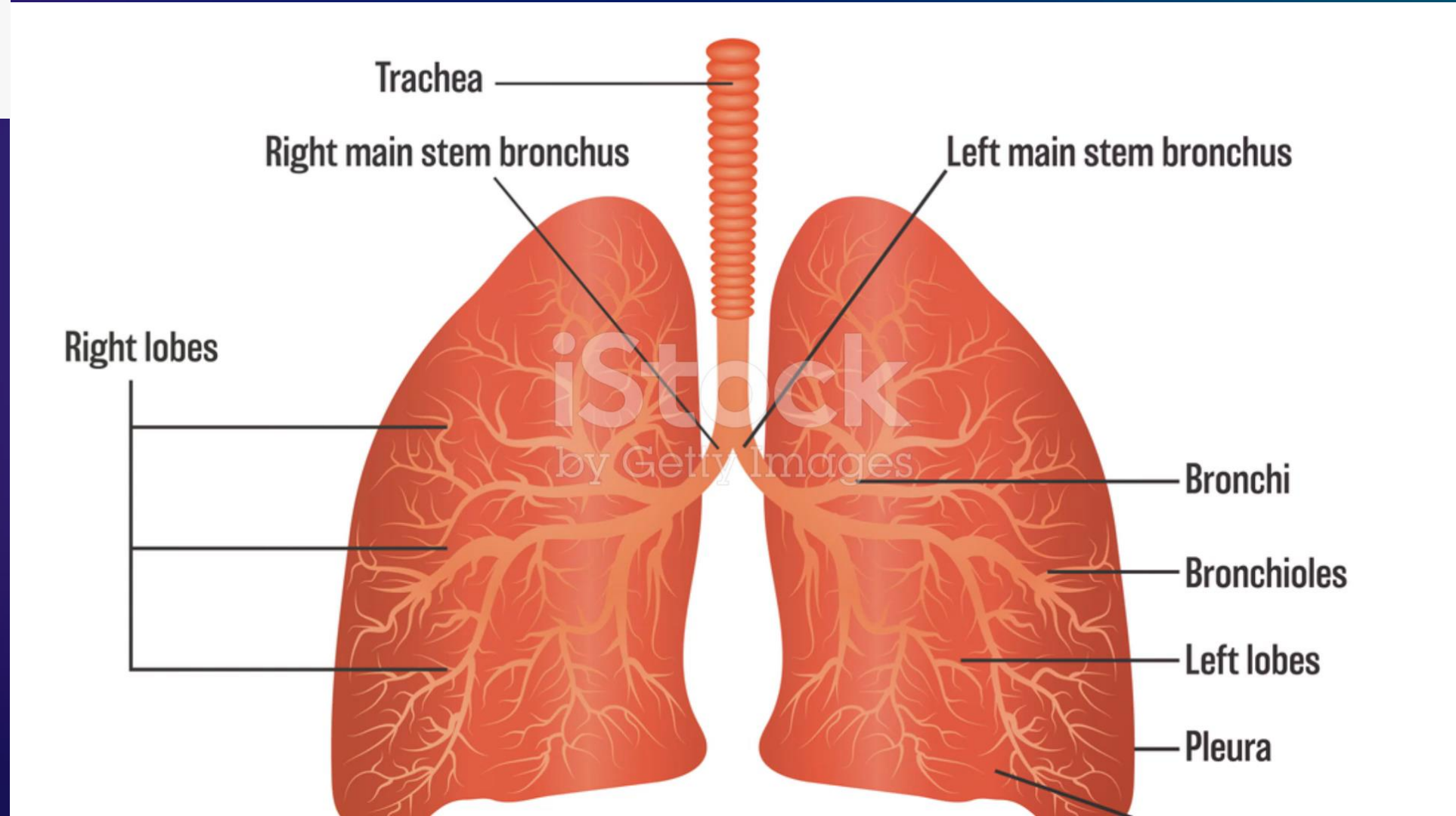
16%



Edit

Export ▾

Generate >





ALAT NARAKEET

<https://www.narakeet.com/tools/>

- pretvara tekst u zvuk, online generator glasa
- pretvara slajdove prezentacije u video pri čemu bilješke iz prezentacije preoblikuje u zvučni zapis
- automatizira produkciju zvuka i videa te dodaje titlove pomoću programskih jezika

RADIONICA

<https://www.narakeet.com/tools/>



Narakeet Tools

Narakeet makes it easy to create videos and audio files from presentations and scripts online, using text-to-speech. Use these quick links to access our tools:

- [Text to Audio, online voice generator](#)
- [Slides to Video, text to speech video maker](#)
- [Markdown to Video](#)
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Text to Audio, online voice generator

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Create a new audio file from a script



Create a new video from a presentation



Create a new video from a markdown

Create video from slides

- 1 Add narration text into [presenter notes](#).
- 2 Save your presentation with [embedded fonts](#)
(or slides may look differently).
- 3 Upload your PPTX or PPT file.
(Looking for a quick example? Use [this file](#).)

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Importing document



Preparing to import

50%



Please check!

This presentation has a few issues which could cause the video to be incomplete.
What would you like to do?



Ignore warnings

Build the video using the uploaded file.



Upload new version

Fix the issues (details below) and improve the presentation.

Some slides are missing narration text, so they will be without sound. (Slides: 1, 8, 9)

ADD NARRATION

We're ready!

28. Kako i zašto dišem.pptx is loaded and ready for conversion.



Create the video

English language, standard voice speed, neutral music...



Edit settings

Choose language, voice, speed, format, music...



Upload new version

Improve the presentation.


Customize video

SIZE: Same as presentation ▼ ?


LANGUAGE: English - British ▼

VOICE: 


VOLUME: 

SPEED: 

MUSIC: 

SUBTITLES: 

POSTER: 

OPTIMIZE: 

- Basque
- Bosnian
- Bulgarian
- Burmese
- Catalan
- Chinese - Mandarin
- Chinese - Taiwanese Mandarin
- Chinese - Cantonese
- Croatian**
- Czech
- Danish
- Dutch
- Dutch - Flemish
- Estonian
- Finnish
- Filipino
- French - Metropolitan
- French - Canadian
- French - Belgian
- French - Swiss

CREATE VIDEO 

Customize video


SIZE: Same as presentation ▼ ?

LANGUAGE: Croatian ▼

VOICE: Zoran 

VOLUME: standard ▼

SPEED: normal ▼

MUSIC: Easy-listening (Melodic) 

SUBTITLES: Off ▼

POSTER: First frame ▼

OPTIMIZE: for offline editing ▼

CREATE VIDEO 

Please check!

This presentation has a few issues which could cause the video to be incomplete.
What would you like to do?



Ignore warnings

Build the video using the uploaded file.



Upload new version

Fix the issues (details below) and improve the presentation.

Some slides are missing narration text, so they will be without sound. (Slides: 1, 8, 9)

ADD NARRATION

We're ready!

28. Kako i zašto dišem.pptx is loaded and ready for conversion.



Create the video

English language, standard voice speed, neutral music...



Edit settings

Choose language, voice, speed, format, music...



Upload new version

Improve the presentation.

Your video is ready



Kako i zašto dišem

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◀ IMPROVE VIDEO

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Create a new audio file from a script



Create a new video from a presentation



Create a new video from a markdown

Text to audio

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(Looking for a quick example? Download [this file](#).)

LANGUAGE: English - British 

VOICE: Charles   

SCRIPT:

UPLOAD FILE

Dictate

CREATE AUDIO 

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LANGUAGE: English - British

VOICE: Ch

SCRIPT:

UPLOAD FILE

Your free account

- English - Nigerian Accent
- English - Filipino Accent
- Afrikaans
- Albanian
- Amharic
- Arabic
- Armenian
- Azerbaijani
- Bangla - Bangladesh Accent
- Bangla - West Bengal Indian Accent
- Basque
- Bosnian
- Bulgarian
- Burmese
- Catalan
- Chinese - Mandarin
- Chinese - Taiwanese Mandarin
- Chinese - Cantonese
- Croatian**
- Czech

Text to audio

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(Looking for a quick example? Download [this file.](#))

LANGUAGE: Croatian ▼

VOICE: Jasna ▼  

SCRIPT:

Jasna

Zoran

UPLOAD FILE

DICTATE

CREATE AUDIO 

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Text to audio

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(Looking for a quick example? Download [this file.](#))

LANGUAGE: Croatian ▼

VOICE: Jasna ▼  

SCRIPT: (estimated duration: less than a minute)

Disanje je prijenos kisika u stanice i ugljikovog dioksida van stanica. Sustav koji to omogućuje nije jedinstven i razlikuje se među skupinama živih bića ovisno o njihovoj građi i mjestu na kojem žive. Tijekom ove cjeline saznat ćeš zašto nam je potreban kisik, odakle dolazi, na koji način ulazi u tijelo i koje su to prilagodbe živa bića morala razviti kako bi omogućila primanje kisika. Susret ćeš se i s mehanizmom nastanka prehrambenih proizvoda koje čovjek koristi u svakodnevnoj prehrani.



UPLOAD FILE

Dictate

CREATE AUDIO 

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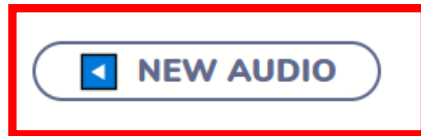
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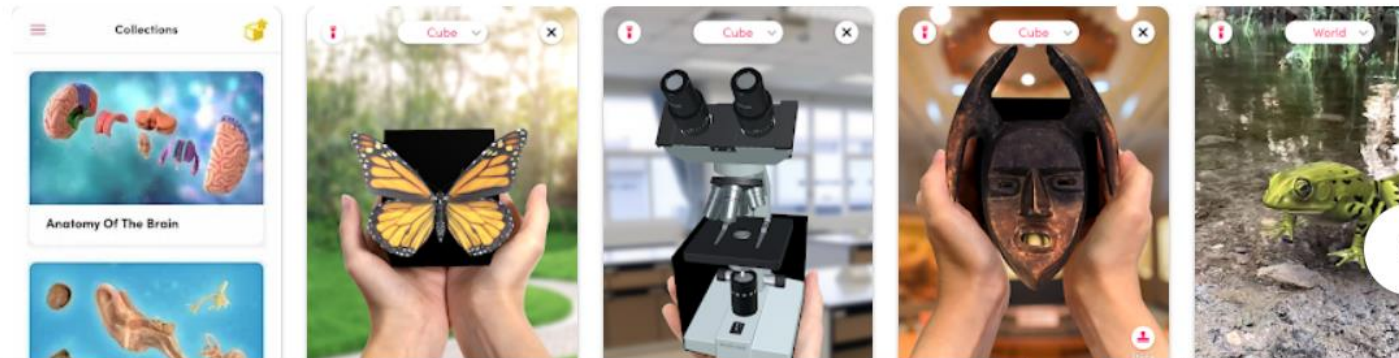
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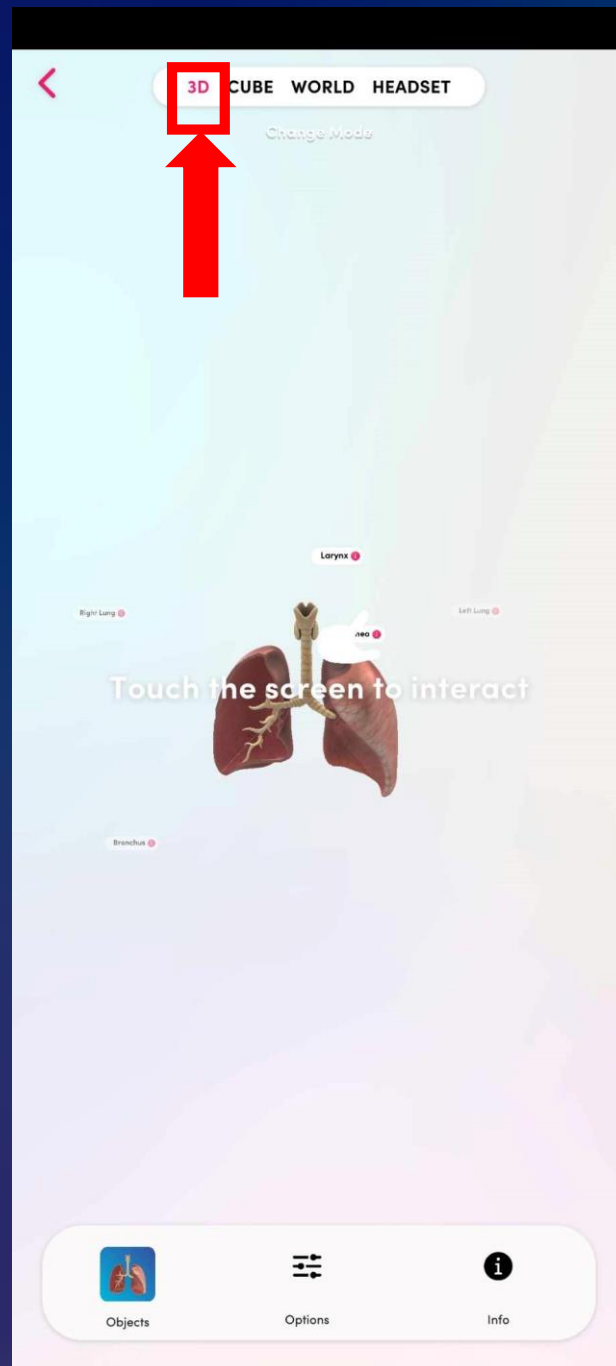
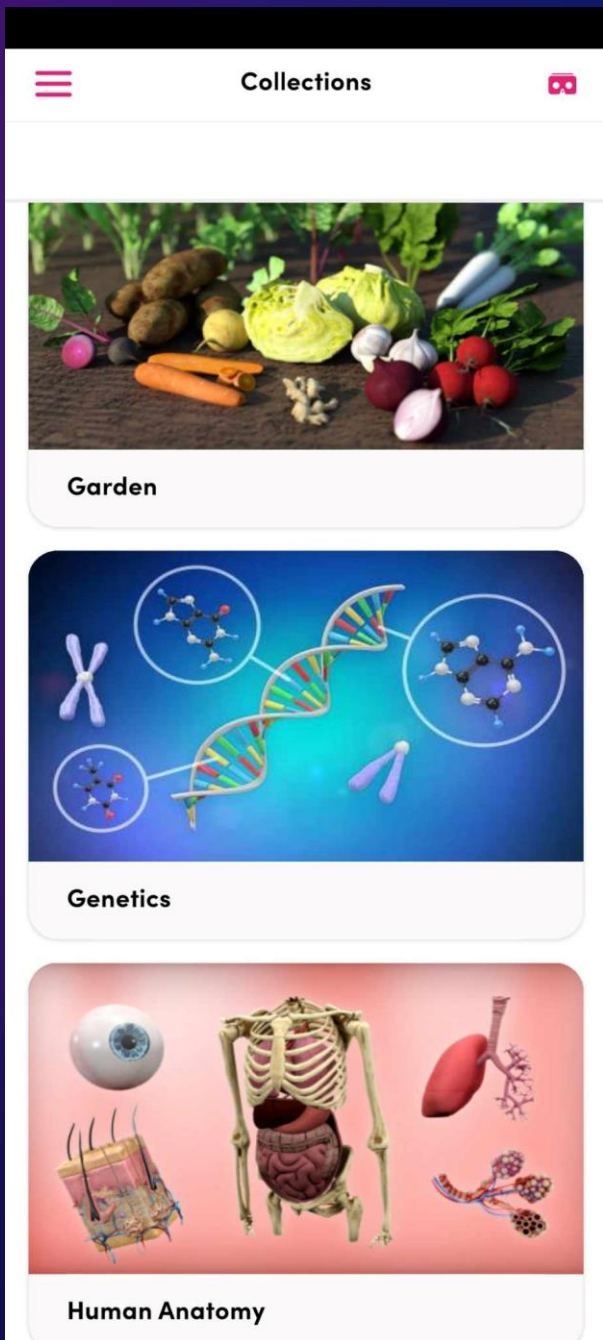
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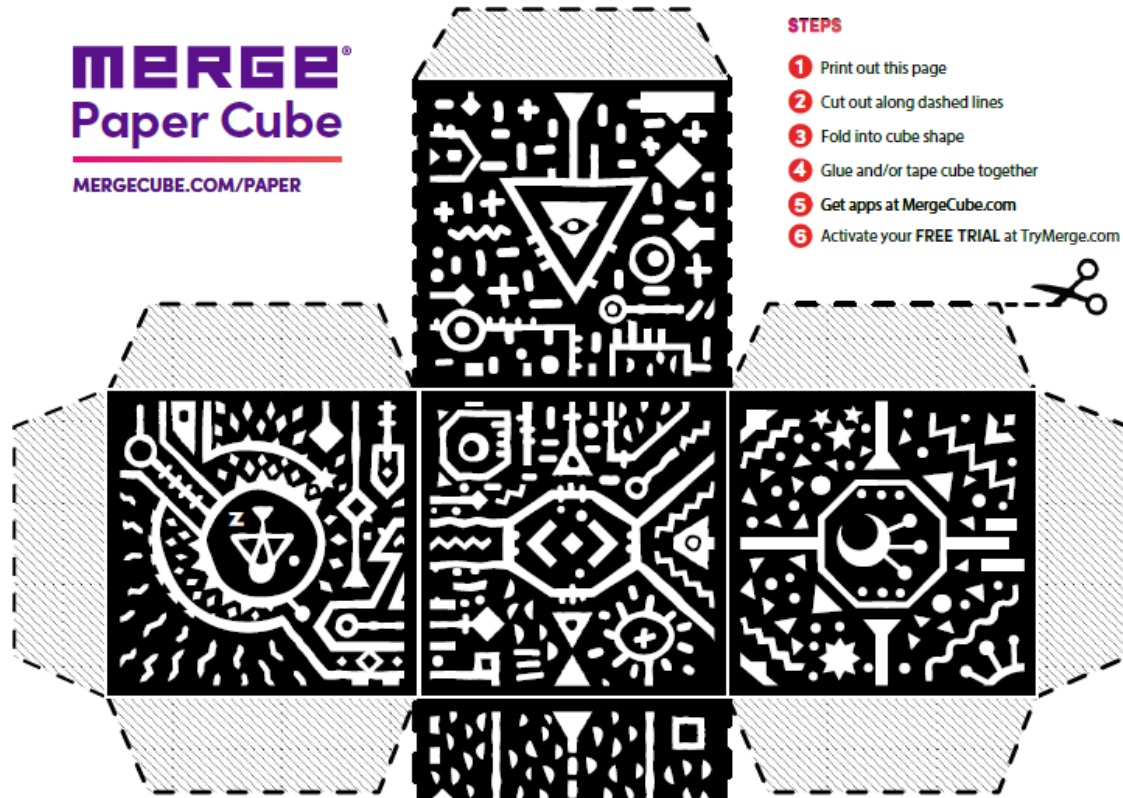


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ZAKLJUČAK

Korištenje AI i multimodalnih sadržaja u nastavi omogućava suvremeni pristup poučavanju, aktivno učenje i individualizaciju nastavnog procesa prema potrebama svakog učenika, a nastavni sadržaji su učenicima zanimljivi. Takav pristup poučavanju razvija kod učenika kreativnost i potiče ih na inovativnost.





THANK YOU

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