

# **An Introduction to Useful AI Tools and Resources for Online and Onsite Instruction**

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# Agenda

1. SELF-INTRODUCTIONS
2. PROMPT TO TEXT
3. PROMPT TO CODE
4. TEXT TO IMAGE
5. TEXT TO SPEECH
6. TEXT TO VIDEO
7. CANVA
8. MAGIC SCHOOL
9. TWEE
10. CHATBOTS
11. TALKIO AI
12. MORE AI APPS
13. COURSEBOX
14. PLAYZO



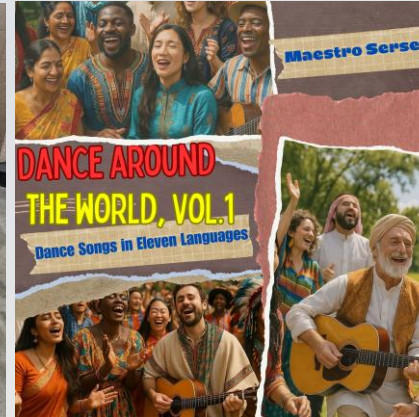
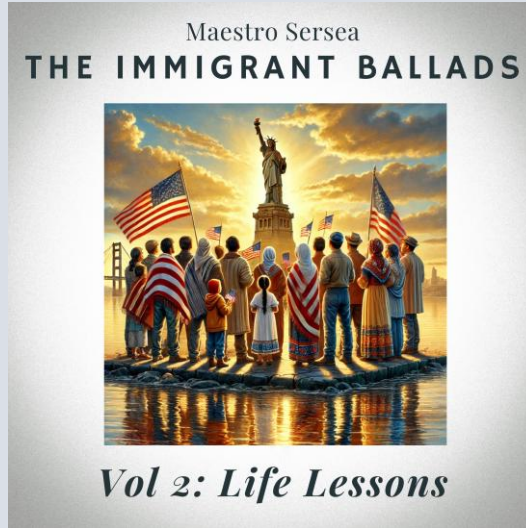
# Self-Introductions

## NAVIGATING TEACHING WITH AI

(NAME, POSITION/DEPARTMENT, HOBBIES, AI EXPERIENCE, AI GOALS)



# Self-Introduction: Ioan Elvis Sersea, M.A., M.A.T. aka Maestro Sersea



# How Does AI Enhance Teaching?

AI enhances teaching by personalizing learning experiences, automating administrative tasks, and improving student engagement across both online and onsite environments. It can create adaptive learning platforms that adjust to individual student needs, provide automated feedback and grading, and offer real-time analytics on student progress. AI tools assist with lesson planning, help identify struggling students, generate differentiated materials, and streamline routine tasks like attendance and progress reporting. This technology frees teachers to focus on direct instruction and building meaningful student relationships while making quality education more accessible through intelligent tutoring systems and specialized applications for subjects like language learning. (Claude.ai)



The background is a light blue gradient with various abstract elements. There are several spheres of different sizes in shades of blue and purple. At the bottom, there are larger, more complex organic shapes in similar colors, resembling liquid or soft clay. The overall aesthetic is clean, modern, and futuristic.

# Prompt to Text

CREATING EDUCATIONAL TEXT WITH AI

# What is Prompt-to-Text

"Prompt to text" refers to the process of using AI language models to generate written content based on text prompts or instructions provided by users. This is the core functionality of modern AI writing tools and language models.

Here's how it works:

**Input (Prompt):** A user provides a text prompt - this could be a question, instruction, topic, or specific request. For example: "Write a professional email declining a job offer" or "Explain photosynthesis in simple terms."

**Processing:** The AI model analyzes the prompt, understands the context and requirements, and generates relevant text based on its training.

**Output (Text):** The AI produces written content that responds to or fulfills the prompt request. (Claude.ai)

# Prompt-to-Text Applications

## **Common applications include:**

- Content creation (articles, blogs, marketing copy)
- Academic writing assistance
- Creative writing (stories, poems, scripts)
- Business communications (emails, reports, proposals)
- Code documentation and explanations
- Educational materials and explanations

This technology powers tools like ChatGPT, Claude (like me), and other AI writing assistants. The quality and relevance of the generated text largely depends on how well the prompt is crafted - clearer, more specific prompts typically yield better results. (Claude.ai)



The background features a light blue gradient with several 3D-rendered spheres in shades of blue and purple. Some spheres are large and prominent, while others are small and scattered. At the bottom, there are larger, more complex organic shapes in similar colors, creating a modern, digital aesthetic.

# Prompt to Code

CREATING INTERACTIVE EDUCATIONAL TOOLS WITH AI

# What is Prompt-to-Code?

AI prompt to code is a sophisticated technology where artificial intelligence systems convert human language instructions into functional programming code. This represents a significant advancement in making programming more accessible and efficient.

**Core Technology:** AI prompt-to-code systems use large language models trained on massive datasets of code repositories, documentation, and programming resources. These models learn patterns in code structure, syntax, logic, and best practices across multiple programming languages. When they receive natural language input, they apply this learned knowledge to generate appropriate code solutions.

**The Process:** The AI analyzes the prompt to understand the programming task, identifies the required functionality, determines the appropriate language and approach, then generates code that matches the request. More advanced systems can engage in multi-turn conversations, asking clarifying questions and iterating on the code based on feedback.

(Claude.ai)

# What Can Prompt-to-Code Do?

**Capabilities:** Modern AI can generate complete applications, create specific functions and algorithms, debug existing code, translate between programming languages, write database queries, create web interfaces, generate API integrations, and produce documentation and comments. The technology works across languages like Python, JavaScript, Java, C++, SQL, HTML/CSS, and many others.

**Real-World Impact:** This technology is revolutionizing software development by dramatically reducing development time, lowering barriers to entry for programming, enabling rapid prototyping, assisting with code review and optimization, and helping developers learn new languages and frameworks. It's particularly valuable for automating repetitive coding tasks and helping non-programmers create functional applications.

**Current Limitations:** While powerful, AI-generated code often requires human review for quality, security, and performance optimization. Complex business logic may need refinement, and integration with existing systems requires careful consideration of compatibility and coding standards.

(Claude.ai)

# Using Claude.ai: Prompt-to-Code Case Study: Saddleback ELL Healthcare Pathways: CNA Program AESL 740: Seventeen+ Interactive Vocabulary Learning Tools (active links available via <https://aesi.us/aesi-resources/> )

## LIST OF NURSE ASSISTANT CURRICULUM MODULE TITLES

**CNA AESL 740 Vocabulary Learning Tool (608 Terms):**

(<https://spanishflashcardgame.my.canva.site/cna-vocabulary-aesi740-with-instructor-sersea> )

**Module 1 Introduction to Nurse Assistant**

Study tool: <https://claude.ai/public/artifacts/461328a3-7e92-44f4-8789-8fa653853190>

**Module 2 Patient/Resident Rights**

Study tool: <https://claude.ai/public/artifacts/b16a643a-5ec2-4b93-831d-39d9e759c2ac>

**Module 3 Communication/Interpersonal Skills**

Study tool: <https://claude.ai/public/artifacts/31dea009-8fd9-40a9-93f1-9660ee277df9>

**Module 4 Prevention and Management of Catastrophe and Unusual Occurrences**

Study tool: <https://claude.ai/public/artifacts/ebf74597-ae11-41cf-bac5-dc385f5fe587>

**Module 5 Body Mechanics**

Study tool: <https://claude.ai/public/artifacts/5eee6fdf-8736-40fb-9eaf-08970e490519>

**Module 6 Medical and Surgical Asepsis**

Study tool: <https://claude.ai/public/artifacts/3910fe3a-b113-4767-98d1-566bd0ed610d>

**Module 7 Weights and Measures**

Study tool: <https://claude.ai/public/artifacts/f3354c30-ebf5-411e-8330-c1cd7eb0a69d>

**Module 8 Patient Care Skills**

Study tool: <https://claude.ai/public/artifacts/eb128907-146a-4eea-b317-59743e56a8ae>

**Module 9 Patient Care Procedures**

Study tool: <https://claude.ai/public/artifacts/4c96bb58-2bd4-4a75-9798-52968be491c0>

**Module 10 Vital Signs:**

Study tool: <https://claude.ai/public/artifacts/c84c1002-a95b-4af6-b531-88e8aedb8b3e>

**Module 11 Nutrition**

Study tool: <https://claude.ai/public/artifacts/e5920f4a-bf4c-42a5-9985-cd6c71790a9a>

**Module 12 Emergency Procedures**

Study tool: <https://claude.ai/public/artifacts/4854f59a-aaed-4555-bb54-068d3f2cec2e>

**Module 13 Long Term Care Patient/Resident (290 terms)**

Study tool: <https://claude.ai/public/artifacts/436d5af5-8952-444f-b0b1-4ef1fa6b0a53>

**Module 14 Rehabilitative Nursing**

Study tool: <https://claude.ai/public/artifacts/11cf294f-bb37-45eb-951f-65614f51ceca>

**Module 15 Observation and Charting**

Study tool: <https://claude.ai/public/artifacts/4d01210f-49b5-4a71-8cf4-1e7e675ae16f>

**Module 16 Death and Dying**

Study tool: <https://claude.ai/public/artifacts/ffc848c8-72b3-49bb-a575-ad5be84960e9>

**Module 17 Patient/Resident Abuse**

Study tool: <https://claude.ai/public/artifacts/bb9afa88-7a4e-4f5a-8740-be9210019cda>





# TEXT to IMAGE

CREATING EDUCATIONAL IMAGES  
WITH AI

# Text to Image

Text to image is an AI technology that generates visual images from written descriptions or prompts. Users input text describing what they want to see, and the AI creates corresponding images based on that description.

## How it works:

- AI models are trained on millions of text-image pairs
- The system learns associations between words/phrases and visual elements
- When given a text prompt, it generates pixels that match the description

## Example prompts and outputs:

"A sunset over a mountain lake" → Creates a landscape image

"A futuristic robot in a cyberpunk city" → Generates sci-fi artwork

"A golden retriever wearing a red scarf" → Produces a stylized pet photo

## Common applications:

**Creative design:** Concept art, illustrations, marketing materials

**Content creation:** Social media posts, blog images, presentations

**Prototyping:** Quick visual mockups for ideas

**Entertainment:** Personal art creation, memes, creative projects

**Education:** Visual aids and teaching materials

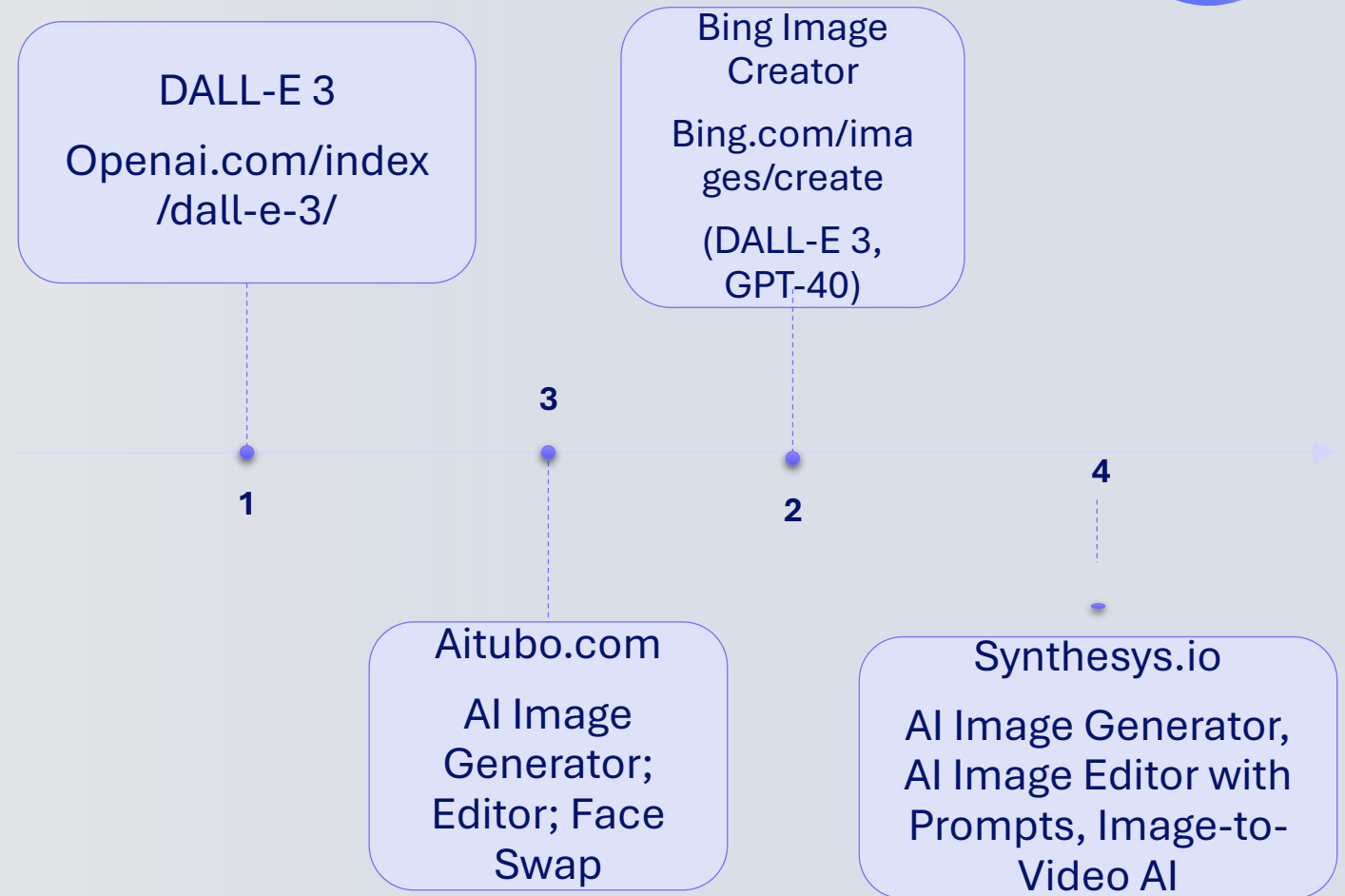
**Commercial use:** Product visualization, advertising graphics

The technology has rapidly improved, now capable of creating highly detailed, photorealistic images as well as various artistic styles ranging from oil paintings to digital art to photography-like renders. (Claude.ai)

# Text to Image Tools

## Text to Image Tools Features to Consider:

- Ease of Use
- Quality of Images (Scaling/Upscaling)
- Image Creation Limits (Number of Credits/Images)
- Types of Images
- Choice in AI Platforms
- Cost (monthly/lifetime)





# TEXT to SPEECH

CREATING EDUCATIONAL AUDIO  
WITH AI



# Text to Speech (TTS)

Text to speech (TTS) is a technology that converts written text into spoken audio. The system reads digital text aloud using synthesized or recorded human voices, allowing users to hear written content rather than read it.

## How it works:

Software analyzes written text

Processes punctuation, abbreviations, and formatting

Converts text into phonetic representations

Generates audio output using either synthesized voices or concatenated recorded speech

## Types of TTS voices:

**Robotic/synthetic:** Basic computer-generated voices

**Natural-sounding:** Advanced AI voices that sound more human-like

**Neural voices:** Latest AI technology producing highly realistic speech

## Common applications:

**Accessibility:** Helps visually impaired users access written content

**Language learning:** Provides pronunciation examples and listening practice

**Multitasking:** Allows people to consume content while driving, exercising, or doing other activities

**Educational tools:** Helps with reading comprehension and learning disabilities

**Voice assistants:** Powers responses from Siri, Alexa, Google Assistant

**Audiobooks and podcasts:** Converts written materials to audio format

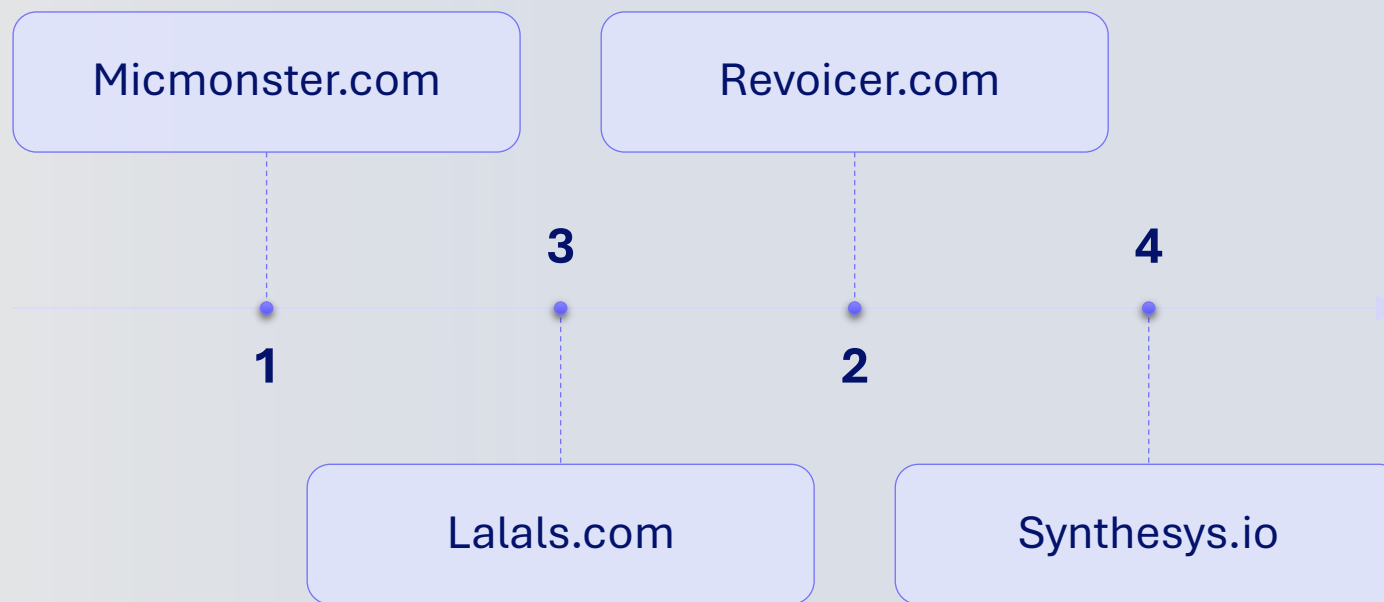
**Navigation systems:** Provides spoken driving directions (Claude.ai)



# Text to Speech Tools

## Text to Speech Tools Features to Consider:

- Ease of Use
- Types of Voices
- Number of Voices
- Languages
- Voiceover Limits (time length of audio)
- Voice cloning
- AI Video Translate
- Cost (monthly/lifetime)



The background features a light blue gradient with several abstract, 3D-rendered shapes. On the left side, there are large, overlapping spheres and blobs in shades of blue and purple. On the right side, there are smaller, isolated spheres in similar colors. The overall aesthetic is clean and modern.

# **TEXT to VIDEO**

**CREATING EDUCATIONAL VIDEOS  
WITH AI**

# Text to Video

Text to video is an AI technology that generates video content from written descriptions or prompts. Users provide text describing a scene, action, or concept, and the AI creates a corresponding video clip based on that description.

## How it works:

AI models are trained on vast datasets of videos paired with text descriptions

The system learns to associate words and phrases with visual movements, objects, and scenes

When given a text prompt, it generates a sequence of frames that form a coherent video

## Applications:

**Content creation:** Social media videos, marketing clips

**Prototyping:** Concept visualization for film/animation

**Education:** Creating visual explanations and demonstrations

**Entertainment:** Personal video creation, memes

**Business:** Product demonstrations, explainer videos

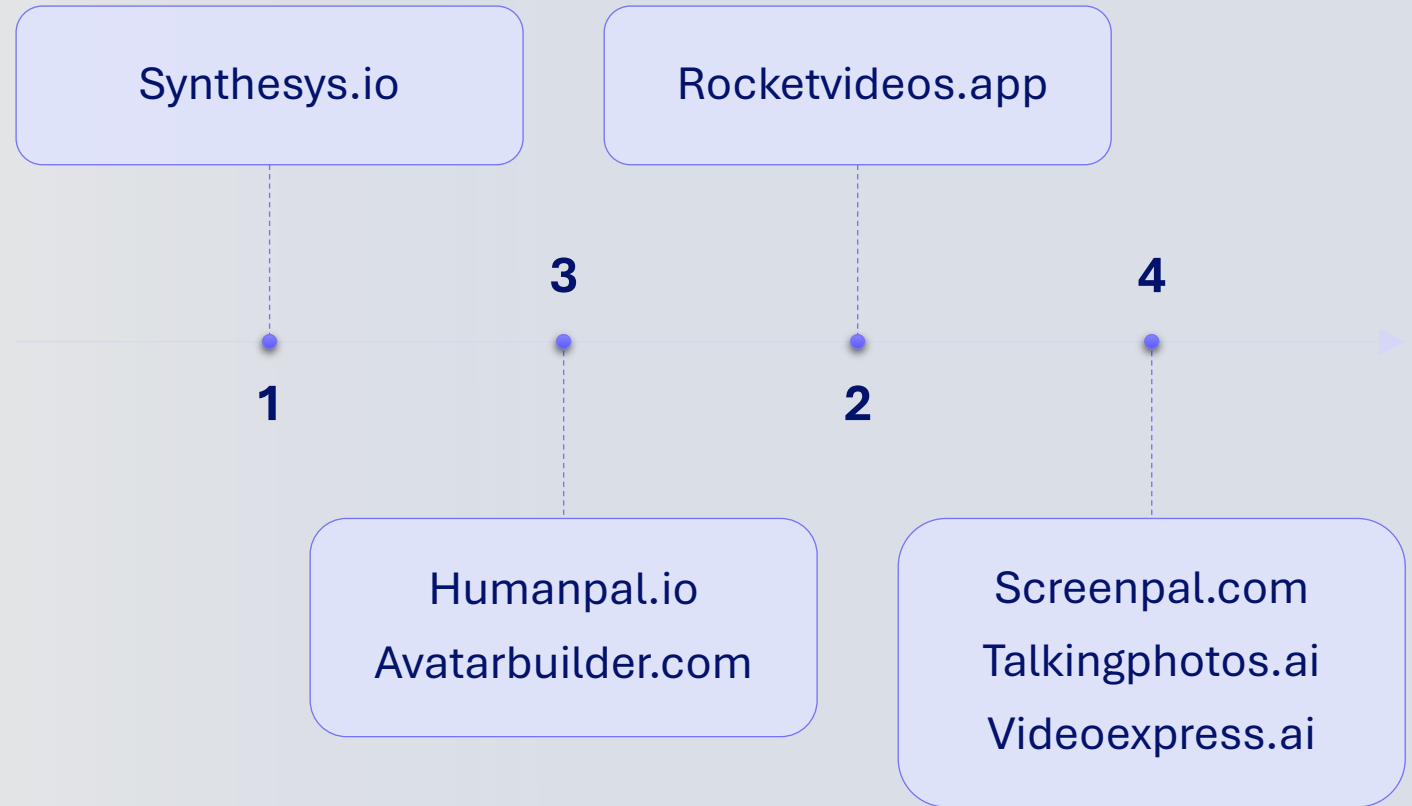
This technology is rapidly evolving and represents one of the newest frontiers in generative AI. (Claude.ai)



# Text to Video Tools

## Text to Video Tools Features to Consider:

- Ease of use
- Types of Characters
- Number of Characters/Voices
- Languages
- Prompt Limits (time length of video)
- Photo to Video
- AI Video Translate
- Cost (monthly/lifetime)



# ScreenPal.com AI Enhanced Tools

## AI Quiz Generator

- Easily check for understanding with quizzes generated from your content

## Transcribe Video

- Enhance the viewer experience with translated captions and chapters

## AI Voice Generator

- Create high-quality AI voice overs with a click using text-to-speech

## Video Background Remover

- Easily blur, replace, or remove video background



**Canva**



# CANVA

Canva is a popular online graphic design platform that allows users to create visual content easily, even without professional design experience. It's a web-based tool (with mobile apps) that provides templates, design elements, and user-friendly editing features.

## **Key features:**

**Drag-and-drop interface:** Simple, intuitive design process

**Templates:** Thousands of pre-made designs for various purposes

**Design elements:** Photos, icons, fonts, shapes, and graphics

**Collaboration tools:** Team sharing and real-time editing

**Brand kit:** Store logos, colors, and fonts for consistent branding

Canva has democratized graphic design by making it accessible to people without technical design skills, while still offering enough functionality for professional use. It's become a go-to tool for creating visual content across industries and personal projects.

## **According to Claude.ai:**

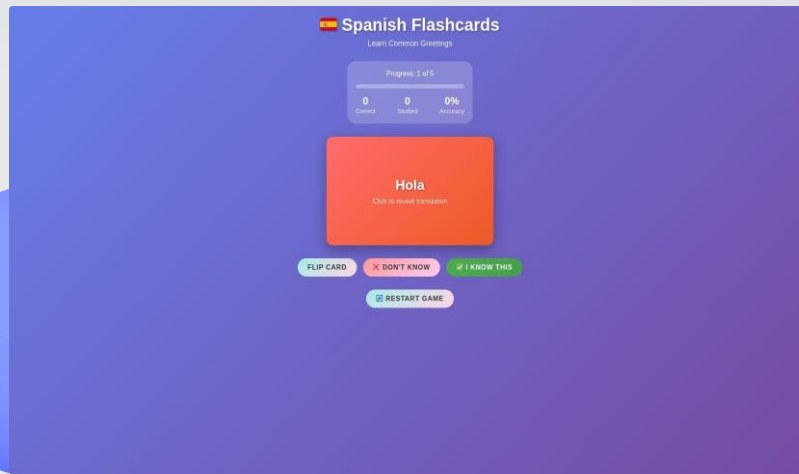
**Best use of Canva AI for education:** Canva AI works best as a content creation tool to support learning rather than deliver fully interactive experiences. It's excellent for creating visually appealing supplementary materials that teachers can use alongside other interactive platforms. (Claude.ai)



# Canva.com/ai:

## Coding Interactive Learning Tools with Canva AI (psst: it takes lots of prompting and patience)

### Interactive Vocabulary Flashcard Game – Spanish Greetings



### 22 Versions Later:

**CNA Vocabulary Learning Tool: 608 Essential Terms organized into 20 California CNA Exam Categories featuring: Study Mode, 3-Choice Quiz, True/False Quiz, Timed Challenge, Scored Mode, Shuffle, Difficulty Levels**



# AESL740 CNA Vocabulary Learning Tool:

***CNA Vocabulary: 608 Essential Terms for Certified Nursing Assistants***

(<https://spanishflashcardsgame.my.canva.site/cna-vocabulary-aesl740-with-instructor-sersea> )



The background features a large, abstract, organic shape on the left side, rendered in a gradient of blue and purple. This shape has several smaller, rounded protrusions and indentations. Scattered across the light blue background are numerous smaller, semi-transparent spheres in various shades of blue and purple, some of which appear to be floating or moving. The overall aesthetic is clean, modern, and whimsical.

# Magic School

# Magic School: Magicschool.ai

## 80+ AI Teacher Tools

Sample Tools	Sample Tools	Sample Tools	Sample Tools
Writing Feedback Generator	Presentation Generator	Text Dependent Questions	Three-Dimensional (3D) Science Assessments
Standards Unpacker	Academic Content Generator	Syllabus Generator	Text Scaffolders
Unit Plan Generator	YouTube Video Questions	Text Leveler	Vocabulary Based Texts
Lesson Plan Generator	Text Translator	Vocabulary List Generator	Multiple Explanations
Worksheet Generator	Text Summarizer	Math Spiral Review	Survey Creator



The background features a light blue gradient with several abstract, organic shapes and spheres in shades of blue and purple. On the left, there is a large, complex shape with multiple rounded protrusions. Scattered around it and across the lower half of the image are several smaller spheres of varying sizes. The overall aesthetic is clean and modern.

**Twee**

# TWEE: Twee.com

## 40+ Tools for Every Language Skill

Twee Tools	Twee Tools	Twee Tools	Twee Tools
CEFR Level Checker	Text to ABCD Questions	Word-Definition Matching	Simplify/Upgrade Text
Vocabulary to Sentences	Text to True/False Statements	Warm-Up Discussion Questions	Create List of Pros/Cons
Discussion Questions	Text to Open Questions	Text to Vocabulary	Create List of Essay Topics
Fill in the Gap	Audio & Video Question Creator	Dialogues based on topic and/or vocabulary	Grammar Rules and Explanations
Vocabulary to Text	Audio/Video to Text	Four Opinions	10 Languages

The background features a large, abstract, organic shape on the left side, rendered in shades of blue and purple with a soft gradient. This shape has several smaller, rounded protrusions. Scattered across the light blue background are numerous smaller, semi-transparent spheres in various sizes, also in shades of blue and purple, creating a bubbly, dynamic effect.

# Chatbots

# Chatbots

Chatbots are computer programs designed to simulate human conversation through text or voice interactions. They can understand user messages and provide automated responses, creating the illusion of chatting with a human.

## Types of chatbots:

**Rule-based chatbots:** Follow pre-programmed scripts and decision trees. They work well for simple, predictable interactions like answering FAQs or guiding users through basic processes.

**AI-powered chatbots:** Use machine learning and natural language processing to understand context, learn from conversations, and provide more sophisticated responses. Examples include ChatGPT, Claude, and Google Bard.

Chatbots have become increasingly sophisticated and are now integrated into websites, messaging apps, voice assistants, and mobile applications across virtually every industry.

## How they work:

Analyze incoming text or voice input

Process the message using natural language understanding

Generate appropriate responses based on their programming or training

Deliver responses through text, voice, or multimedia

## Common applications:

**Customer service:** Handle inquiries, troubleshooting, and support tickets

**E-commerce:** Assist with product searches, recommendations, and purchases

**Healthcare:** Provide basic health information and appointment scheduling

**Education:** Tutoring, answering questions, and learning assistance

**Banking:** Account inquiries, transaction help, and basic financial services

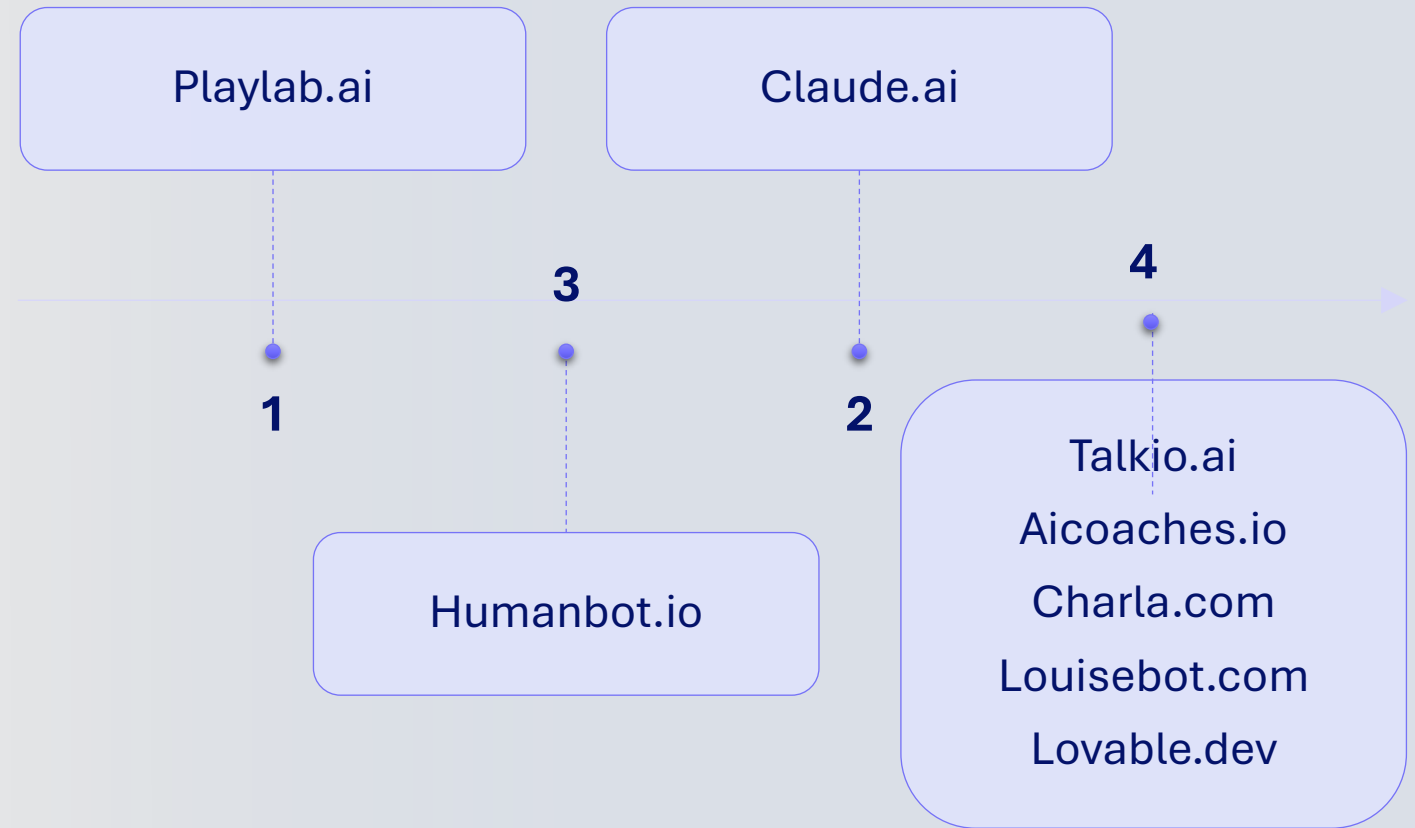
**Entertainment:** Casual conversation, games, and interactive storytelling (Claude.ai)



# Chatbot Tools

## Chatbot Tools Features to Consider:

- Ease of Use
- Interactive/Conversational vs only Chat Flows
- Embeddable
- Train with Specific Knowledge
- Use of different AI Platforms
- Languages
- Voiceover Limits (time length of audio)
- Audio/Video (Listening/Speaking)
- Customize looks and personality
- Cost (monthly/lifetime)



The background features a large, complex, organic shape on the left side, composed of various shades of blue and purple, resembling a cluster of bubbles or a stylized animal head. Several smaller, smooth spheres in similar colors are scattered across the light blue background, some appearing to float or move. The overall aesthetic is clean, modern, and playful.

**Playlab.ai**

# Playlab.ai Chatbots

## Effective Workplace Communication Skills

<https://bit.ly/4ovic47>

Improve workplace communication skills by  
discussing workplace  
communication-related topics



## English Conversation Practice Assistant

<https://bit.ly/3UZSJ52>

Helps non-native English speakers improve  
their conversational skills through  
natural dialogue



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**Talkio.ai**

# Talkio.ai: Practice Language with AI

The ultimate language training app that uses AI technology to help you improve your oral language skills.

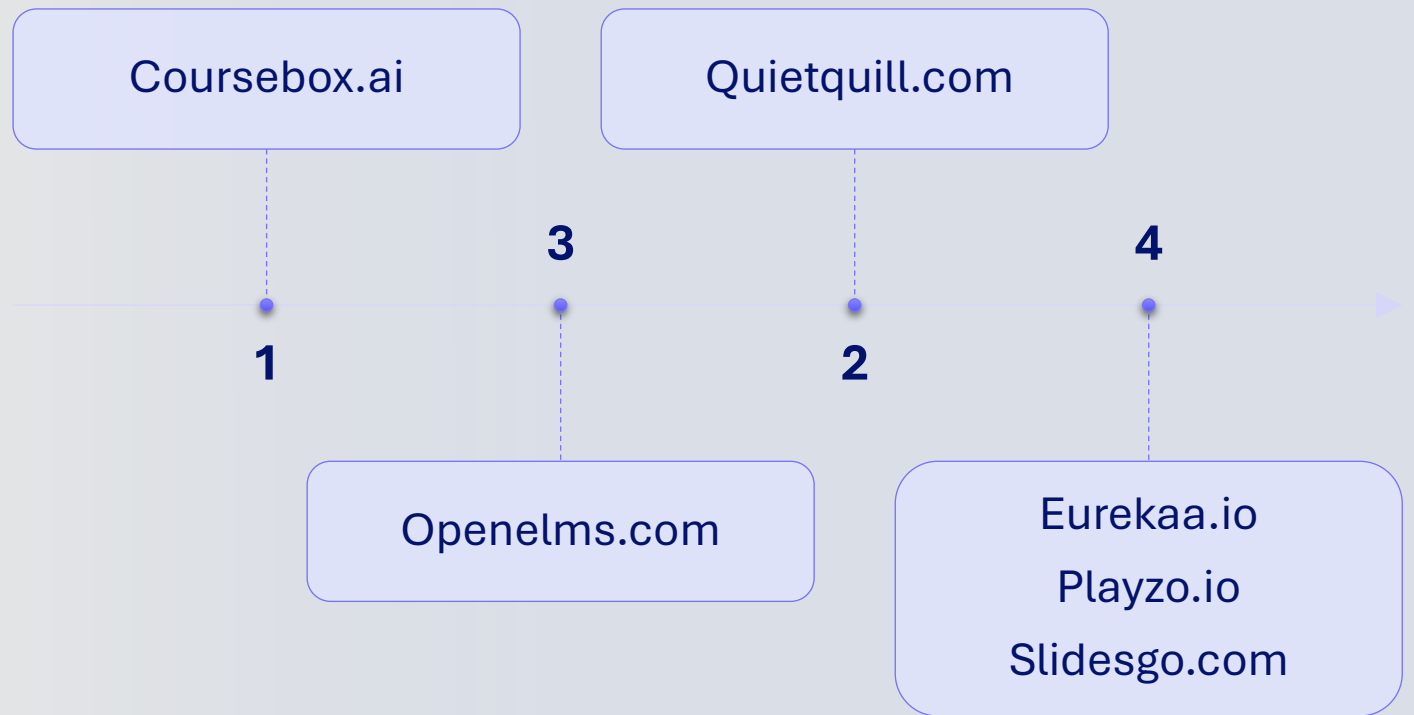
- Life-like conversations with AI Tutors
- Pronunciation practice tool
- Detailed feedback on speaking skills
- Interactive wordbook
- Supports 40+ languages



# More AI Apps

Create interactive learning phone apps, presentations, online courses, eBooks, and lesson plans with the following AI tools and consider:

- Ease of use
- Prompt input
- Learning material input
- Output Quality
- Cost (monthly/lifetime)



The background features a large, abstract, organic shape on the left side, rendered in a gradient of blue and purple. This shape has several smaller, rounded protrusions and indentations. Scattered across the light blue background are numerous smaller, semi-transparent spheres in various shades of blue and purple, some of which are slightly out of focus, creating a sense of depth.

**Coursebox.ai**

# Coursebox.ai Features

Generate interactive training courses with videos and assessments in minutes

- Files to course: Convert your videos, docs and websites into courses, or align your course with competency standards
- AI Video Generator: Generate training videos with AI in minutes instead of paying for expensive video production and editing
- AI Assessment: Learners get instant AI grading and feedback based on your marking rubric, criteria or desired answer.
- AI Chatbot Trainer: An interactive chatbot trained on your entire course gives learners real time conversational assistance
- AI Quiz Generator: Generate quizzes, or open answer questions with correct and incorrect answers in seconds
- Interactive Content: Create interactions like flashcards, tabs, accordions, social discussions or embed SCORM, videos, or Canva
- AI Course Designer: AI assists you design the structure of your course before generating the draft

The background features a large, abstract, organic shape on the left side, composed of various shades of blue and purple, resembling a cluster of bubbles or a stylized splash. Several smaller, smooth spheres in similar colors are scattered across the light blue background.

# Playzo.io

<https://playzo.io/educators>

**On AppSumo:**

**<https://bit.ly/4lnUsMu>**

# Playzo.io: Transform Learning with Gamification

Transform Learning with Gamification: Engage Learners and Boost Outcomes with Interactive Experiences

- Effortless Customization: No Tech Skills Needed, use intuitive no-code editor to tailor visuals and content
- Massive Game Library for Education: Access nearly 50 no-code game templates which are readily editable and fully customizable
- Reach Learners Everywhere: Embed games on websites, YouTube videos, LMS systems, or mobile apps
- AI-Generated Quizzes: Create the latest, advanced content on any topic instantly with AI Tools
- Quizzes with Timers: Add excitement with timed challenges to keep learners motivated and focused
- Short Explanations After Each Answer: Provide immediate insights to reinforce understanding and improve retention
- Quiz Certificates: Award digital certificates to celebrate achievements, boosting motivation for students and trainees.



# Exit Tickets ([www.slidesgo.com](https://www.slidesgo.com))

## True or False Statements:

Read the following statements regarding the AI tools discussed in class. Indicate whether each statement is true or false:

- a) Magic School allows educators to create visuals from textual prompts.
- b) Chatbots cannot be used to answer student queries in real-time.
- c) Canva is primarily a tool for coding educational content.
- d) Text to Speech technology can enhance accessibility for students with visual impairments.
- e) Coursebox focuses on collaboration and enhancing student engagement.

## Quick Survey:

Rate your familiarity with each of the following tools discussed in today's lesson on a scale from 1 (not familiar) to 5 (very familiar):

- Prompt to Text
- Text to Video
- Twee
- Playzo
- More AI Apps

The background features a light blue gradient with several 3D-rendered spheres in shades of blue and purple. On the right side, there are large, flowing, organic shapes in blue and purple, resembling liquid or smoke. The overall aesthetic is modern and artistic.

# Thank you

**IOAN ELVIS SERSEA, M.A., M.A.T. AKA MAESTRO SERSEA**

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**EDUCATIONAL RESOURCES: [WWW.AESL.US/AESL-RESOURCES](http://WWW.AESL.US/AESL-RESOURCES)**