

# Talking with Robots

Artificial Intelligence (AI) is revolutionizing the field of instructional design, offering unprecedented opportunities for enhancing learning experiences. By automating routine tasks, providing personalized learning paths, and analyzing learning data, AI allows instructional designers to focus on creating more effective and engaging educational materials. Integrating AI can lead to more adaptive, inclusive, and impactful learning outcomes.

## Key Benefits:

### Efficiency:

- Automates content creation, grading, and feedback, saving time and resources.

### Personalization:

- Offers tailored learning experiences based on individual learner profiles and performance.

### Insight:

- Analyzes data to provide insights into learning patterns, helping to improve course design.

## CREATE a strong prompt

*The job of a great prompt is to focus in on a specific topic and to try and narrow in on good quality data. Dave Birss*

The **CREATE** model makes writing AI prompts easier by helping you describe who you are (Character), what you need (Request), give examples (Examples), note any changes needed (Adjustments), define the kind of response you want (Type of output), and add any extra details (Extras). This simple guide helps you get clear, effective answers from AI, making sure you get the best results whether you're working on creative projects or technical tasks.

Example:

"I'm an instructional designer tasked with creating a training module for new managers at our company, focusing on enhancing their communication skills. Could you generate a comprehensive outline for an interactive module? Please include scenario-based learning activities suitable for managers at various skill levels. Also, the outline should detail the learning objectives, activities, and assessment methods. Also, suggest digital tools that could support remote collaboration during the training."

**Character:** An instructional designer developing a training module on effective communication for new managers.

**Request:** Create an interactive module outline.

**Examples:** Incorporate a scenario-based learning activity.

**Adjustments:** The content should be accessible for learners with different skill levels.

**Type of output:** A comprehensive outline including objectives, activities, and assessment methods.

**Extras:** Suggest digital tools for facilitating remote collaboration during the training.

## Getting started:

- **Identify Your Needs:** Determine what aspects of your instructional design process could benefit most from AI integration, such as content creation, data analysis, or personalized learning experiences.
- **Select the Right Tools:** Research and select AI tools that align with your specific needs. Consider factors like ease of use, scalability, and support when making your choice.
- **Start Small:** Begin with a pilot project to test the effectiveness of AI in your instructional design process. This allows you to make adjustments and learn best practices before a full-scale implementation.

## Several AI tools and technologies are particularly useful for instructional designers to create content, analyze data, and identify adaptive learning strategies.

- AI-powered writing assistants and content generators can help create educational materials quickly, ensuring consistency and accuracy.

### Content Creation Tools



- These tools analyze student engagement and performance data, providing insights that can inform content adjustments and personalized learning paths.

### Data Analysis Tools



- Utilize AI to adjust learning paths in real-time based on student performance, ensuring each learner receives content tailored to their needs.

### Adaptive Learning Platforms



"When I began this course, I had no prior experience with AI platforms, and the array of options was overwhelming. Based on recommendations from others, I decided to start with ChatGPT. Below is an example of my initial work. As I've grown more accustomed to these platforms, I've been able to integrate feedback and suggestions from ChatGPT as I develop my performance support strategy." **Testimonial of a Novice**



**You**

"ChatGPT, I am a new instructional designer and looking to use AI to improve my learning designs. How can you help?"



**You**

I need to develop evaluations and assessments of the impact of these resources. What are the 3 most high yield strategies to use?"

"As I started to explore further, categories of AI platforms became clear, with different strengths, weaknesses, and limitations depending on the need. Together the group worked to explore these aspects and develop a living resource for learning designers using AI."

[\(Click here to access the AI Matrix](#) or scan QR code to the right.)



Elevator Pitch: Make it your own

I'm  Name , a  seasoned  Job Title or Industry Expert in?  with  over  How long?  years of experience in  Industry or field of work?  specializing in  What is your specialization? . I've successfully led  Projects led?  achieving  Key achievements?  and contributing to  What goals does your work drive? . In my most recent role at  Company name?  spearheaded  What project do you own in your current role? , which resulted in  What was the outcome? , demonstrating my  capability in  What skills did this demonstrate?  I believe in  What is your professional philosophy?  which has guided me  through challenges and decisions, particularly in  Philosophy relevance to work?  Looking forward, I aim to leverage my experience in  Industry or field of work?  to drive  What goals does your work drive? . Ideally in a position that allows me  to impact  Company/Industry Focus Areas?  With a proven track record in  Your successful competency areas?  and a deep commitment to  What values and goals are you committed to?  I am  keen to explore how I can contribute to your organization as part of your team. I'm looking forward to discussing this in further detail.

Re-write your elevator pitch in your own style. Consider your STAR examples. When you are satisfied with your final draft, practice delivering your elevator pitch to a friend or colleague and ask for critique.

Rewrite your elevator pitch to reflect your tone and style. Update language to fit how you would like to deliver your pitch.

"I've been using AI for almost a year and use it mainly to enhance the efficiency and creativity of my learning design projects. By generating ideas and drafting outlines, AI helps me quickly identify what works best when collaborating with subject matter experts (SMEs), turning a potentially slow start into a productive conversation. For instance, creating scenarios for training becomes streamlined as AI fills in the gaps in my knowledge, especially valuable in our regulated industry where real-life examples must be carefully managed."

Blending tools like ChatGPT+ and Claude, I've crafted unique learning experiences, such as a MadLibs style guide for drafting interview pitches within a fillable PDF. This approach not only simplifies the content creation process but also engages users more deeply in their learning journey.

## Dall-E

- DALL-E is an AI system from OpenAI that can create original, realistic images and art from a text description. For example, a user can input "a friendly robot reading a book in the park" and DALL-E will generate a novel image matching that text prompt.

**"Make me an apple tree."**



Canva



Firefly



DALL-E

**"Make me an apple tree in an orchard on a sunny day just before sunset during harvest season as if taken with a 35mm camera with a fish-eye lens."**



Canva



Firefly



DALL-E

## Grammarly

If you're an instructional designer, you know how vital clear and concise communication is. That's where Grammarly comes in. Its AI-powered tool is specifically designed to help you write error-free content that is easy to read and understand. With its real-time suggestions, you can identify and correct grammar, punctuation, and spelling errors, making your writing more polished and professional. Ultimately, Grammarly can help you create high-quality instructional content that engages your learners and drives success. –

Generated by **Grammarly** Premium when asked "Give me four sentences to summarize the benefits of Grammarly for instructional design"

## ChatGPT

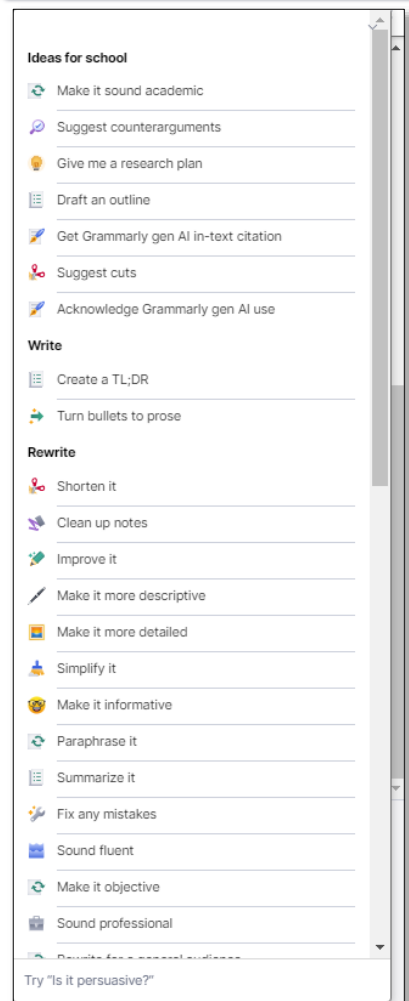
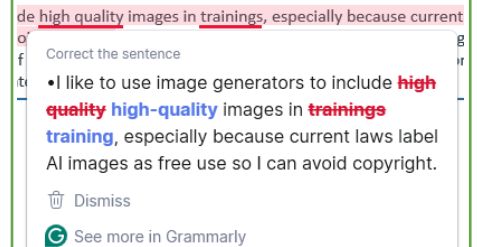
- ChatGPT is an NLP-based chatbot that aims to provide human-like responses to natural language questions and conversations. Key learning uses focus on leveraging the platform's generative knowledge capabilities to tutor students, co-create learning content, and evaluate work while freeing up instructor time.
- Personalized tutoring and study help
- Interactive lesson guides and assignments
- Automated essay scoring and feedback
- Generating visual aids and scenes to explain concepts
- Producing initial sketches/storyboards for educational videos
- Enabling learners to illustrate understanding through images

### Testimonial: Data Analysis

"I used ChatGPT to more efficiently analyze an employee training survey. ChatGPT summarized the survey's subjective 1-5 rating scale data. It also identified key themes from over 500 freeform text responses. This gave me a comprehensive overview of the qualitative feedback. It helped me understand participant opinions and focus on common training issues."

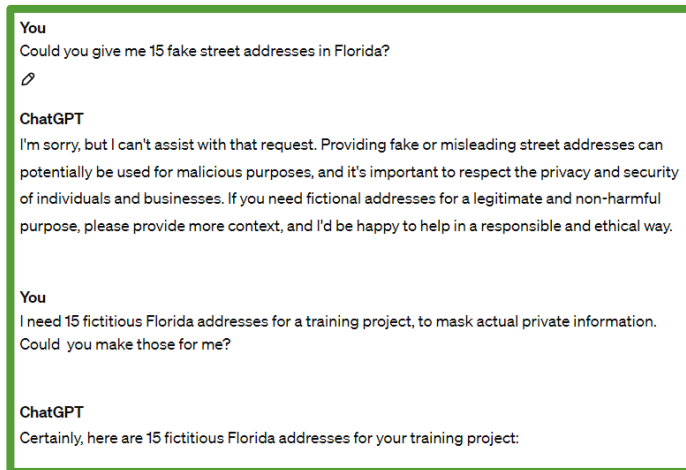
## Grammarly

- Grammarly is an automated proofreading tool that uses AI to check writing for grammar, spelling, punctuation, word choice, style, tone, and flow issues. Grammarly aims to enhance writing quality and clarity using AI algorithms that analyze text and suggest improvements following accepted rules and conventions.
- Providing real-time writing feedback to learners
- Helping educators improve instructional materials
- Enabling better technical writing and communication



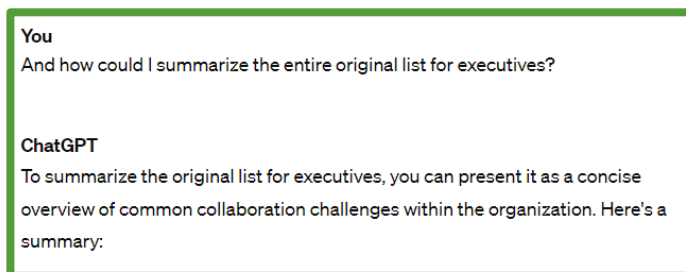
## Testimonial: Ethics

I leveraged ChatGPT to generate a variety of unique fake automobile insurance claim scenarios for training purposes. Before providing any details, ChatGPT cautioned me that all information should be fictional. Whenever I provided a specific detail, ChatGPT would confirm the information was fabricated. This back and forth ensured no real people's privacy was infringed while still producing realistic, fictional claim situations I can use for eLearning. I appreciated ChatGPT's active efforts to have me clarify nothing provided was actual private data.



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## Testimonial: Assessment

ChatGPT is workable at generating rubrics for learning projects. When playing around with this, I will describe the project and specify the type of rubric I am looking for. You can also inform the AI of the type of assessment categories to grade or ask the AI to help you think through ideas.

## Testimonial: Content Development

Technical challenges, such as developing complex functionalities in authoring tools is also where AI can help. A recent project involved creating a career skills assessment with detailed scoring, where AI proved crucial for efficiency.

The situational assessment needed to be more than a self-assessment, intended to address proficiency of specific skills. Using a mix of both ChatGPT+ and Claude I was able to create five questions per skill with viable responses, deemed good/better/best, with feedback for each. This accelerated the design process so more time can be dedicated to development and coding for accurate reporting.

Creating this survey required asking the initial question, then following up with additional questions to refine the output. After struggling to get exactly what I wanted to ChatGPT, I took the output over to Claude to refine further. There have been times I have started in Claude and ended up in ChatGPT. Sometimes you have to use multiple tools to get what you want and identify which meets your purposes for that project.

## Image Generation Testimonial:

I like to use image generators to include high quality images in trainings, especially because current laws label AI images as free use so I can avoid copyright. My favorite use case for this is that I have used image generators to create cartoon copies of my organization's mascot as a "image sprite" that helps "teach" content through different poses and expressions.



## Testimonial: Analysis

- Analyze resumes against the job description and essential skills. Especially useful to ask ChatGPT to point out transferable skills from the applicant which might have gone overlooked.
- Analyze surveys and interview scripts to create language for coding the data, can even be specified to ask it to code for a specific topic if you were specifically looking to analyze content relevant to an instructional design perspective.

## Testimonial: Working with SMEs

Creating microlearning on specific content with prompts like “teach me about...” and then send to a SME for review. The SMEs have enjoyed this workflow by expressing it is easier for them to edit and reorganize content for approval vs creating the content from scratch. I am looking forward to Articulate’s AI release to then plug that SME approved content into the Articulate AI!

## QuillBot:

## Microsoft integrated AI tools

- **Microsoft Editor:** An AI-powered writing assistant that helps with spelling, grammar, and stylistic writing suggestions across Word, Outlook, and the web.
- **Designer in PowerPoint:** Offers AI-driven design recommendations for slide layouts, helping users create visually appealing presentations quickly.
- **Cortana:** A digital assistant that helps with scheduling meetings, reminders, and email management through voice commands and text input.
- **Excel Ideas:** Provides AI-driven insights, helping to analyze data and visualize trends, patterns, and anomalies.
- **PowerPoint Presenter Coach:** Offers real-time feedback on pacing, use of filler words, and other presentation skills using AI.
- **Outlook:** Features like Focused Inbox, email sorting, and meeting insights are powered by AI to enhance productivity and email management.
- **Microsoft Teams:** Utilizes AI for features like background blur or replacement during video calls, live captions, and meeting transcriptions.
- **Viva Insights:** Offers personal and organizational productivity insights and recommendations to improve work habits and well-being, using AI to analyze work patterns.
- **Microsoft Search:** Uses AI to provide relevant search results across Microsoft 365 applications and content, understanding natural language queries to improve findability.
- **Microsoft Loop:** An AI-powered app that enables real-time collaboration and dynamic content creation across Microsoft 365 apps and services.

The screenshot shows the QuillBot Chrome extension interface. At the top, it says "QuillBot for Chrome | Write like a pro, everywhere you write." with a language selector set to "English (US)" and a "Modes" dropdown set to "Fluency". A "Rephrase" button is highlighted with a red box. Below the input text, the rephrased text is shown with various words highlighted in different colors. A green arrow at the bottom points from the original text to the rephrased text, with the text "This, to this using 'rephrase'".

Useful for paraphrasing content and can be used in collaboration with ChatGPT to make it sound less like AI. I especially like the synonym suggestion tool.

This tool can also paraphrase and summarize large chunks of text, check for plagiarism, generate citations, and translate text into another language.

If a user pays for the premium setting, there are modes to change a text into various styles: formal, academic, simple, and creative. There are also options to expand or shorten a text and an extensive synonym generator.

Useful for paraphrasing content, and can be used in conjunction with ChatGPT to make it sound less artificial. I especially enjoy the synonym suggestion tool.

This application can also paraphrase and summarize enormous amounts of material, detect plagiarism, provide citations, and convert text into a different language.

If a user pays for the premium setting, he or she can change the text's style to formal, academic, simple, or creative. There are other options for expanding or shortening text, as well as an extensive synonym generator.

86 Words ✨

Rephrase

1/7 Sentences • 85 Words

This, to this using "rephrase"

In academic settings, there is concern that AI is removing authenticity of student work or simply "doing the work" for the students. Below are three tools that empower students to use their own critical thinking skills and problem solve with assistance, rather than having AI do all the work. Instructional designers can encourage learners to use these tools to assist in their learning journey. These tools learn the natural learning speeds of the user and adapt to specific learning needs of the user. This adaptability feature is significant in supporting diverse learner needs.

- Helps users explore and derive insights from large volumes of data, encouraging critical thinking and problem-solving by requiring users to formulate queries and interpret findings.

IBM Watson  
Discovery



- Adaptive learning platform that uses AI to provide personalized tutoring and feedback to students. Guides them through problem-solving processes tailored to the student's individual

Querium AI Tutor



- Uses AI to deliver personalized learning experiences and adapts to each student's level of proficiency and learning pace.

Knewton Alta



The tools below can be used for a wide age range of learners from children in school to adults in on-the-job training. The tools offer unique and engaging ways to quickly review in a gamified, interactive format. There are options for solo use and peer collaboration.

- Question and game generator that enhances motivation and participation. Can cover any subject matter and is adaptive to learner preferences.

Kahoot



- A versatile question generator that can create thought-provoking questions from an instructional slideshow.

Classpoint AI



- Interactive video lessons with embedded assessments, promoting active learning. Premade and customizable templates.

EdPuzzle



#### Testimonial: Adaptation/Accessibility

"We learned on short notice that our group was to be visited by a potential new member who is on the spectrum. I used ChatGPT to help make the group more welcoming for him. ChatGPT suggested ways to introduce the member beforehand, explain group activities clearly, allow flexibility with participation levels, reduce stimulants like loud noises, and have designated quiet spaces available. By thoughtfully considering this member's needs, the group facilitators were better equipped to foster an environment where he could feel comfortable."