



# Guide to Transforming e-Learning with Generative AI

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# 1. Introduction

In today's fast-paced world, Learning and Development (L&D) professionals are under increasing pressure to deliver high-quality training content to a diverse range of learners. With limited resources and budget constraints, keeping up with the demand for new and engaging e-Learning content can be a daunting task.

Fortunately, the rise of generative artificial intelligence (AI) tools has provided a solution to this problem. These tools use machine learning algorithms to automatically create visual assets for e-Learning, such as images, text, videos, graphics, and more. With these tools, L&D professionals can create more content, more quickly, and do it all in-house.

In this eBook, we'll take a deep dive into the world of generative AI tools for e-Learning. We'll explore the various types of tools available, we'll take you through a case study on module creation using AI tools and we'll share some top tips for maximizing their effectiveness.

Additionally, we'll discuss some of the challenges to be aware of when using generative AI tools and their



potential to revolutionise the L&D landscape. By the end of this eBook, you'll have a comprehensive understanding of how generative AI tools can help you overcome the challenges of creating engaging learning content and provide learners with an immersive and effective learning experience.

## 2. Text-Based Generative AI Tools

- **OpenAI ChatGPT:**

OpenAI ChatGPT is a state-of-the-art language model developed by OpenAI. It uses deep learning algorithms to generate human-like text responses to given prompts or questions. This tool can be used to create natural-sounding chatbot conversations, write product descriptions, generate social media posts, and more.

- **WriteSonic:**

WriteSonic is a generative AI tool that uses machine learning algorithms to generate high-quality marketing copy. It can generate text for a range of marketing purposes, including ad copy, social media posts, email subject lines, and more. This tool can help businesses save time and resources by automating their marketing copywriting process.

- **Leonardo:**

Leonardo is a design assistant developed by Pindar Creative. It uses deep learning algorithms to generate design concepts and variations for logos, advertisements, and other visual content. This tool can help businesses and designers create high-quality design concepts quickly and efficiently, reducing the time and effort required to generate creative ideas.



### 3. Image-Based Generative AI Tools



- **Midjourney:**  
Midjourney is a generative artificial intelligence program and service created and hosted by San Francisco-based independent research lab Midjourney, Inc. Midjourney generates images from natural language descriptions, called prompts, similar to OpenAI's DALL-E and Stability AI's Stable Diffusion.
- **OpenAI Dall-E:**  
OpenAI Dall-E is a tool developed by OpenAI that can create images from textual descriptions. This tool can generate high-quality, realistic images of objects, scenes, and even fictional characters based on written descriptions. It has the potential to revolutionise the field of visual arts and design by enabling creatives to generate visuals from words alone.
- **OpenArt:**  
OpenArt is a tool developed by Huawei that can create realistic and detailed paintings and sketches. The tool uses machine learning algorithms to analyse the characteristics of different art styles and generates new artworks based on those styles. It can be used to generate unique art pieces or assist artists in their creative process.
- **Lexica:**  
Lexica is a tool developed by Grammarly that provides real-time feedback on the clarity and effectiveness of written communication. It uses machine learning algorithms to analyse written content and provides suggestions for improving clarity, tone, and overall effectiveness. This tool can be used to enhance business communication, marketing copy, and other written content.





## 4. Audio-Based Generative AI Tools

- **Murf:**  
Murf is a chatbot platform developed by Murf.ai. It uses natural language processing and machine learning algorithms to provide personalised and conversational customer service experiences. The platform can be integrated with a range of messaging apps and can help businesses save time and resources by automating customer service interactions.
- **Play.ht:**  
Play.ht is a text-to-speech tool that allows users to convert written content into audio files. It uses machine learning algorithms to create realistic and natural-sounding audio files in multiple languages and voices. This tool can be used to create audio versions of eBooks, articles, and other written content, making it more accessible to individuals with visual impairments or those who prefer audio formats.
- **Resemble:**  
Resemble is a voice cloning tool developed by Resemble AI. It uses deep learning algorithms to analyze and replicate the unique characteristics of a human voice. This tool can be used to create custom voiceovers, generate voiceovers for video games, and even create virtual assistants with human-like voices. It has the potential to revolutionize the field of audio production and voice technology.

## 5. Video-Based Generative AI Tools

- **Runway:**

Runway is a platform that enables artists, designers, and creatives to experiment with machine learning algorithms and incorporate them into their creative workflows. The platform includes a range of tools and models that can be used to generate unique and original art pieces, animations, and other visual content.

- **Fliki:**

Fliki is an AI-powered tool developed by NVIDIA that can create realistic and detailed 3D models of animals and other objects. It uses machine learning algorithms to analyze and replicate the characteristics of different animal species, generating lifelike 3D models that can be used in a range of applications, including gaming, animation, and film.

- **Synthesis:**

Synthia is a video creation platform that enables businesses and individuals to create realistic and personalised videos using virtual presenters. It uses machine learning algorithms to replicate the movements and speech patterns of real people, enabling users to create customised videos featuring virtual presenters delivering their message. This tool can be used to create personalised marketing videos, e-Learning modules, and more.





## 6. Interview with Daniel Wiggins, Senior Learning Design Specialist

In the world of learning and development, the use of generative AI tools has been gaining popularity as a way to create content quickly and efficiently. Daniel Wiggins, Senior Learning Design Specialist at Opal NZ, recently experimented with using these tools to create an e-Learning module with Chameleon Creator. We spoke to Daniel to learn about his experience with generative AI tools and how they helped create the module.

Daniel explains, “I was inspired by the impact that artificial intelligence can have on learning and development, and the possibility to have a bigger impact than L&D currently has. I created the module to help L&D professionals build their own AI practice & toolkit to further enhance their day-to-day operations. AI has limitless possibilities beyond just module creation. It can help us analyse learner data, build reports, provide advice on learning strategy and more,”.

To create his latest module in Chameleon, Daniel explained how he “used AI to build the curriculum out



and then further prompted the AI to build the content out for each section. General research across all available AI, the models and its uses helped [him] choose the right tools for the jobs”.

When asked which tools an L&D function might need, Daniel explains, “It comes down to understanding the need and essentially the gap you are currently experiencing in your team. L&D is often plagued with a laundry list of needs from stakeholders and at times can’t get to everything at once. We often have to say no due to capacity, but AI can help us work smarter and have a bigger impact by delivering more with less,”.

But like any creative endeavor, using AI tools came with its fair share of challenges.

“AI will never replace humans. We are driven by emotion, feeling, and story, and this is something AI can never replace. The content produced was effective but lacked human personality. It also still has several biases around what it produces. E.g. I asked Stable Diffusion to produce factory workers, and it only gave me pictures of Chinese factories,” Daniel admits.

“Understand your needs before you jump in. It’s new, sexy and exciting but make it practicable and useful by evaluating where your gaps in your design practice exist. Also understand AI at its core, how the models work and how it produces content. This will help guide the way you use AI.”

Despite these challenges, Daniel remains optimistic about the future of AI in e-Learning.

“I see artificial intelligence building out whole e-Learns just by reading policy or a simple standard operating procedure. You may be able to provide a simple prompt on leadership capability and it will produce a module in less than a minute,” he envisions.

Thanks to Daniel’s creativity and boldness, learners everywhere can benefit from the power of AI in their e-Learning experiences!

If you’d like to see Daniel’s awesome AI creation, check it out [here!](#)



## 7. Summary of best practices for using generative AI tools in e-Learning:

1. **Ensure relevance:** Ensure that the generated assets are relevant to the learning objectives and the content being presented in the module. Irrelevant or off-topic assets may confuse learners and reduce engagement.
2. **Ensure quality:** Ensure that the generated assets are of high quality and meet the necessary standards. Poor quality assets may distract learners and negatively impact their learning experience.
3. **Test for accessibility:** Test the generated assets for accessibility to ensure that all learners, including those with disabilities, can access and use them. Ensure that the assets meet accessibility guidelines, such as providing alt text for images.
4. **Consider how your assets integrate:** The integration of generated assets with other learning materials can help to address different learning styles and preferences among learners. Some learners may prefer text-based content, while others may prefer video or audio-based content. By integrating



generated assets with other learning materials, learners can access the content in a variety of formats, allowing them to engage with the material in a way that is most effective for them.

5. **Evaluate effectiveness:** As with any piece of learning content, evaluate the effectiveness in achieving the learning objectives. This can be done through pre- and post-assessments, feedback from learners, and analysis of the learning outcomes.

Overall, the use of generative AI tools to create assets for e-Learning can enhance the learning experience for learners. However, it is important to ensure that the generated assets are relevant, high quality, and accessible, and that they are integrated effectively with other learning materials. By following these best practices, e-Learning can benefit from the use of generative AI tools.



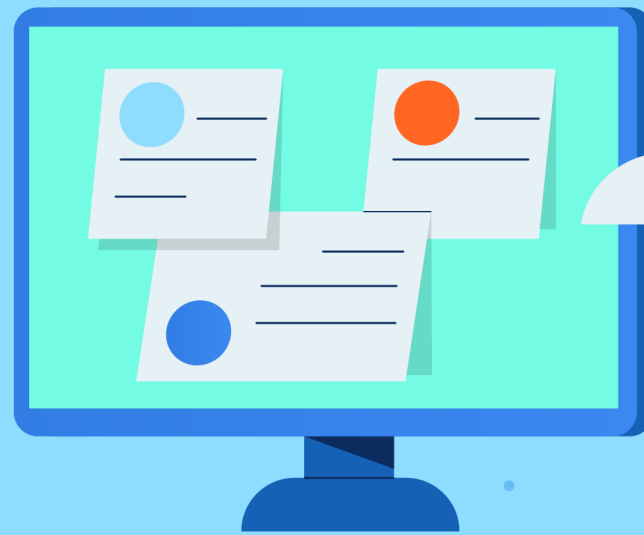


## 8. Some potential challenges when using generative AI tools in e-Learning include:

- 1. Technical difficulties:** Some generative AI tools can be complex, and users may encounter technical difficulties while using them. Provide technical support and troubleshooting guidelines to help users overcome such challenges.
- 2. Bias:** Generative AI tools can sometimes perpetuate biases in their output. Ensure that the tool is trained with diverse data sets to minimize bias in the generated content.
- 3. Lack of engagement:** Learners may find generative AI-generated content less engaging than human-generated content. To address this, use a variety of instructional methods and techniques to keep learners engaged.
- 4. Over-reliance on the tool:** Generative AI tools should be used as a supplement to, not a replacement for, learning specialists and subject matter experts. Encourage users to use these tools as an assistant not a digital learning designer.

## 9. Conclusion

Overall, the effective integration of generative AI tools into e-Learning requires careful planning and consideration of potential challenges. By following best practices and addressing these challenges, learning designers can build content that looks amazing in a fraction of the time.





## Want to test out your newly discovered AI tools?

Give Chameleon Creator a try today. Chameleon is the fast, easy and beautiful authoring tool built with a design first attitude. Launch your free trial today and create beautiful change with Chameleon Creator.

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