

# Let's Have Some Fun with ChatGPT!

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# 2023 - The Year of AI?

- Artificial Intelligence (or AI) has been used by computers for years
- However, the release of ChatGPT by OpenAI just a few months ago has created a frenzy in the computer industry with major investments by computer companies including Microsoft, Google, Apple, Adobe, and many, many others
- Today we are going to concentrate on Text Based AI which is creating the most excitement

# Types of Text Based AI

- **AI Image Generation** from text prompts
  - Examples are Midjourney and Adobe Firefly (now being incorporated into Adobe Photoshop)
- **AI Text Generation** from text prompts (often referred to as chatbots)
  - Examples are ChatGPT by OpenAI, Edge Browser and Bing AI by Microsoft, and Bard by Google
  - Numerous other Apps - many relying on OpenAI's GPT
- Today we will experiment with ChatGPT, although I will begin by giving you a quick introduction to AI Image Generation



# Adobe Firefly

Prompt: “Mountain landscape with lake and boat with airplane flying over”

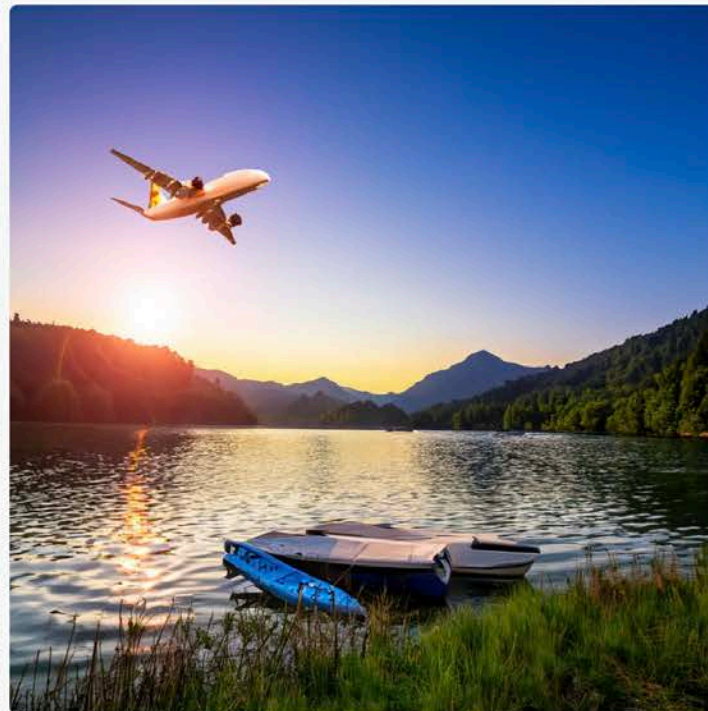




# Adobe Firefly

Prompt: “Mountain landscape with lake and boat with airplane flying over.  
Change the airplane to a hot air balloon and the boat to an ocean liner.”





# Adobe Firefly

Prompt: “Mountain landscape with lake and boat with airplane flying over **at sunset**”





# Adobe Firefly

Prompt: “Mountain landscape **in winter** with **frozen** lake and boat with airplane flying over”





# Adobe Firefly

Prompt: “City view showing skyscrapers and traffic on streets”





# Adobe Firefly

Prompt: “Children playing on playground”





# Adobe Firefly

Prompt: "Children playing on playground"  
Exported Image with Watermark



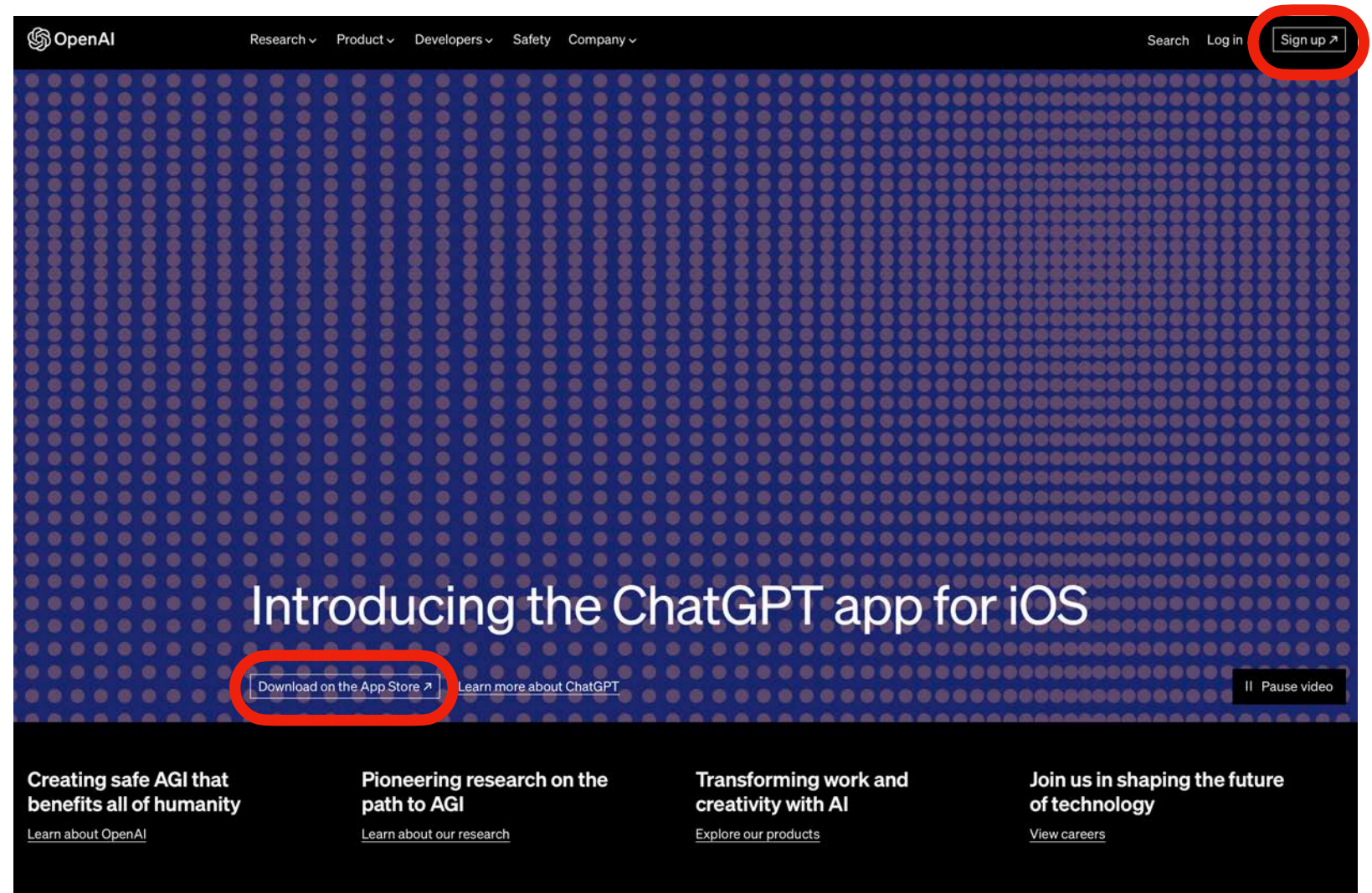


# Midjourney

Prompt: “Abraham Lincoln using an iPhone”

# Accessing ChatGPT

- Launch Safari.
- Go to openai.com.
- Click Sign Up and follow the prompts to create an account.
- Now you can use ChatGPT on your Mac.
- Or, Download the iOS App to use on an iPhone





# Using ChatGPT

- To use ChatGPT you merely enter text prompts (e.g.; questions, requests, messages, etc.) like you would enter text into a browser's search bar. You can also speak your prompts using the microphone.
- Cautions on using ChatGPT
  - Do not include confidential or personal information in prompt
  - Not all ChatGPT responses will be correct
    - independently verify critical responses and use your own good judgement
    - The majority of AI training was prior to 2022 - so recent information may not be accurate
- The prompt is the key
  - Asking questions in the wrong way will produce generic, unhelpful and, sometimes, downright incorrect answers.
  - There is an art to typing in the precise words and framing to generate the most helpful answers

# Art Museum Example

**Prompt: “I will be in Los Angeles on June 1st 2023 from 8:00 am to 10:00 pm, and would like to visit some art museums. Please give me an Itinerary of the best museums to visit and the time that I should spend at each museum. Also include travel times between museums using local transportation and recommend restaurants for lunch and dinner”.**

*“Great! Here's an itinerary for visiting some of the best art museums in Los Angeles on June 1st, 2023:*

*8:00 am - Start your day at The Getty Center, which opens at 10:00 am. Take the Metro Bus 734 from Union Station to The Getty Center. The museum is located in the Brentwood neighborhood of Los Angeles and offers a stunning collection of European paintings, sculptures, decorative arts, and photographs. Spend around 3 hours here.*

*11:00 am - Take the Metro Bus 2/302 from The Getty Center to LACMA (Los Angeles County Museum of Art). The journey takes approximately 30 minutes. LACMA is one of the largest art museums in the western United States and features a diverse collection of art from around the world. Spend around 3 hours here.*

*2:00 pm - For lunch, head to Ray's and Stark Bar located within LACMA. The restaurant offers a variety of dishes, including salads, sandwiches, and pizzas.*

*3:00 pm - Take the Metro Bus 20/720 from LACMA to The Broad. The journey takes approximately 20 minutes. The Broad is a contemporary art museum located in downtown Los Angeles and features a collection of postwar and contemporary art. Spend around 2 hours here.*

*5:00 pm - For dinner, head to Otium, a modern American restaurant located next to The Broad. The restaurant offers a variety of dishes, including seafood, meat, and vegetarian options.*

*6:30 pm - Take the Metro Red Line from Civic Center/Grand Park Station to Union Station. The journey takes approximately 10 minutes.*

*7:00 pm - End your day at Union Station, which is a historic landmark and one of the most beautiful train stations in the United States. Take some time to explore the station and its architecture before heading back to your accommodation.*

*This itinerary allows you to visit some of the best art museums in Los Angeles while also experiencing the local transportation system and trying out some great restaurants. Enjoy your trip!”*



# Regenerated Art Museum Example

*“Certainly, I can help you plan your itinerary for visiting art museums in Los Angeles on June 1st, 2023. Here's a suggested plan:*

*8:00 am - Start your day by having breakfast at Eggslut Grand Central Market. This popular eatery is known for their delicious egg sandwiches and coffee.*

*9:00 am - Begin your art museum tour at The Getty Center, which opens at 10:00 am. It's best to arrive early to beat the crowds and have time to explore this large museum. Take the bus line 234 from the stop Sepulveda/Bundy to Getty Center.*

*10:00 am to 12:00 pm - Spend at least two hours at The Getty Center, which has a stunning collection of European paintings, sculptures, and decorative arts, as well as photography, drawings, and manuscripts. You can also enjoy the beautiful gardens and stunning views of the city.*

*12:00 pm to 1:30 pm - For lunch, head to the LACMA Café located inside the Los Angeles County Museum of Art. The cafe offers a variety of delicious sandwiches, salads, and snacks, and it's a great place to take a break before continuing your art museum tour. You can take the bus line 234 from Getty Center to LACMA.*

*1:30 pm to 3:30 pm - Spend two hours at the Los Angeles County Museum of Art, which has a diverse collection of over 150,000 works of art from ancient times to the present. You can see contemporary art, modern art, as well as Latin American, Asian, and Islamic art. Don't forget to take a photo of the famous "Urban Light" installation outside the museum.*

*3:30 pm to 4:00 pm - Take a short Uber ride to The Broad Museum, which is only 1.5 miles away from LACMA.*

*4:00 pm to 6:00 pm - Spend two hours at The Broad Museum, which features contemporary art from the 1950s to the present. You can see works by artists such as Andy Warhol, Roy Lichtenstein, and Jeff Koons. Don't miss Yayoi Kusama's Infinity Mirror Room, which is a popular installation that requires a timed ticket.*

*6:00 pm to 8:00 pm - For dinner, head to Bestia, which is known for their delicious Italian cuisine and located in the Arts District. It's about a 15-minute Uber ride from The Broad Museum.*

*8:00 pm to 10:00 pm - Finish your day at the Museum of Contemporary Art, which is open until 10:00 pm on Thursdays. MOCA features a diverse collection of contemporary art from around the world, and it's a great way to end your art museum tour. You can take a bus line 60 from Bestia to MOCA.*

*I hope this itinerary helps you plan your day in Los Angeles and enjoy some of the best art museums the city has to offer!”*

# Request Additional Information for Art Museum Example

***Prompt: “Please add websites for these venues”.***

*“Of course! Here are the websites for the venues I mentioned in the itinerary:*

- Eggsolut Grand Central Market: <https://www.eggslut.com/locations/gcm/>
- The Getty Center: <https://www.getty.edu/visit/center/>
- Los Angeles County Museum of Art (LACMA): <https://www.lacma.org/>
- The Broad Museum: <https://www.thebroad.org/>
- Bestia: <https://bestiala.com/>
- Museum of Contemporary Art (MOCA): <https://www.moca.org/>

These websites provide more information about the venues, including hours, admission prices, exhibitions, and other helpful details to plan your visit.”



# Travel Itinerary Cautions

- ChatGPT is great to help plan your trip, but not all information generated is current or correct - so you need to verify the details and not rely solely on the output of ChatGPT
  - Recent events like concerts and sporting events are particularly suspect - use venue websites to corroborate results
  - Suggested restaurants may no longer be open - use OpenTable or other sites to verify hours of operation
  - Local transportation changes frequently - use local transit websites, Apple Maps App, or Apps like Transit and TAP for current real-time schedules

# Paella Recipe Example

***Prompt: “Recipe mild paella with rice, clams, clam juice, pastrami, chicken”***

## *“Ingredients:*

- 1 lb. of boneless chicken breast, cut into small pieces
- 1 lb. of paella rice
- 2 cups of clam juice
- 1 lb. of fresh clams
- 4 oz. of pastrami, chopped into small pieces
- 1 red bell pepper, diced
- 1 onion, diced
- 3 cloves of garlic, minced
- 2 tomatoes, diced
- 1 tsp. of smoked paprika
- 1 tsp. of turmeric
- 4 cups of chicken broth
- 1/4 cup of olive oil
- Salt and pepper to taste
- Lemon wedges for serving

## *Instructions:*

1. Rinse the clams thoroughly and discard any that are open or broken. Set aside.
2. In a large paella pan or deep skillet, heat the olive oil over medium-high heat.
3. Add the chicken and pastrami and cook until browned, about 5 minutes. Remove from the pan and set aside.
4. In the same pan, add the diced onion, red bell pepper, and garlic and cook until the vegetables are soft and fragrant, about 5 minutes.
5. Add the diced tomatoes and cook for another 3 minutes, until they begin to break down.
6. Add the smoked paprika and turmeric and stir to combine with the vegetables.
7. Add the rice to the pan and stir well to coat it with the vegetable and spice mixture.
8. Add the chicken broth and clam juice to the pan and stir well to combine.
9. Bring the mixture to a simmer and reduce the heat to low. Cover the pan with a lid or foil and let the rice cook for 10-15 minutes.
10. After 10-15 minutes, add the clams to the pan, pushing them down into the rice mixture.
11. Cover the pan again and let the clams cook for another 5-7 minutes, until they open up.
12. Once the clams have opened, remove the pan from the heat and let it sit for a few minutes before serving.
13. Serve the paella with lemon wedges on the side for squeezing over the top. Enjoy!”



# Writer's Block Example

**Prompt: “Give me some computer topics to write about”.**

*“Certainly! Here are some computer topics you can write about:*

1. Artificial Intelligence and Machine Learning: Explore the applications, benefits, and challenges of AI and ML in various industries such as healthcare, finance, and autonomous vehicles.
2. Cybersecurity and Data Privacy: Discuss the importance of cybersecurity measures in protecting sensitive data and mitigating cyber threats. Explore topics like encryption, secure coding practices, and emerging technologies in cybersecurity.
3. Blockchain Technology: Explain how blockchain works, its applications beyond cryptocurrencies, and its potential impact on industries such as supply chain management, finance, and healthcare.
4. Internet of Things (IoT): Discuss the concept of IoT, its potential benefits, and challenges related to security and privacy. Explore real-life examples of IoT devices and their impact on various sectors.
5. Cloud Computing: Explain the concept of cloud computing, different cloud service models (IaaS, PaaS, SaaS), and their advantages. Discuss the benefits and challenges of migrating to the cloud for businesses.
6. Big Data Analytics: Explore the significance of big data and its analysis in various industries. Discuss the challenges associated with handling large data sets, data privacy concerns, and the role of data visualization in extracting meaningful insights.
7. Virtual Reality (VR) and Augmented Reality (AR): Discuss the differences between VR and AR, their applications in gaming, education, and other industries, and the future potential of these technologies.
8. Quantum Computing: Explain the basic principles of quantum computing and its potential to revolutionize computation. Discuss the challenges and current research in the field of quantum computing.
9. Software Development Methodologies: Compare and contrast different software development methodologies such as Waterfall, Agile, and DevOps. Discuss the advantages and disadvantages of each approach and their suitability for different types of projects.
10. Computer Networks: Explain the fundamentals of computer networks, including concepts like protocols, routing, and network security. Discuss emerging network technologies such as 5G and the Internet of Things (IoT).

Remember to choose a topic that interests you the most or aligns with your target audience's interests. Conduct thorough research to gather relevant information and present your ideas clearly and concisely in your writing.”

# Choose your Audience

***Prompt: “Describe ChatGPT to an elementary school child”.***

“Hello there! Let me tell you about ChatGPT in a way that's easy to understand. Imagine having a really smart friend who knows a lot about many different things. Well, ChatGPT is like having that friend, but it's actually a computer program.

You know how you can talk to your friends and ask them questions? Well, with ChatGPT, you can do the same thing! It's designed to understand what you're saying and respond back to you in a helpful way.

You can ask ChatGPT all sorts of questions, like "What's the weather like today?" or "How do plants grow?" It will try its best to give you the right answers. It has learned a lot of information from reading lots of books, articles, and websites. ... ”

***Prompt: “Describe ChatGPT to a computer novice”.***

“Certainly! ChatGPT is a computer program that's designed to have conversations with people, just like you and me. It's based on a technology called artificial intelligence, which means it's a smart program that can understand and respond to what we say.

When you chat with ChatGPT, you can ask it questions or talk to it about different topics. It uses a lot of information it has learned from reading books, articles, and websites to try and give you helpful answers.

Think of ChatGPT as a really big encyclopedia that knows a lot about many different things. It can help you with homework, answer questions about science or history, or even just have a friendly chat about your day. ... ”

***Prompt: “Describe ChatGPT to a computer expert”.***

“Certainly! ChatGPT is a language model based on the GPT-3.5 architecture developed by OpenAI. It's a sophisticated deep learning model that uses a technique called natural language processing to understand and generate human-like text.

At its core, ChatGPT is built upon a neural network with billions of parameters. It has been trained on a vast amount of text data, including books, articles, and websites, to learn patterns and relationships in language. This enables it to generate coherent and contextually relevant responses when given prompts or questions.

The model is designed to simulate conversation and can generate text that appears to be a human-like response. It uses a combination of statistical patterns and context from the input to produce its output. The responses generated by ChatGPT are not pre-programmed, but rather generated on the fly based on its training data and the input it receives.. ... ”

# Grammar Correction and Translation Example

***Prompt: Correct the grammar in the following “Me go to see the Pacific Oceans at the Redondo Beach Piers with a friends.”***

I will correct the grammar in the sentence for you: "I will go to see the Pacific Ocean at the Redondo Beach Pier with friends."

***Prompt: “Translate the sentence to Russian”***

“Я пойду посмотреть Тихий океан на пирсе Редондо-Бич вместе с друзьями.”

**Apple Online Translation of the ChatGPT Russian Translation back into English:**

“I'm going to see the Pacific Ocean on Redondo Beach Pier with my friends.”



# Trivia Quiz Example

***Prompt: “Create a trivia quiz on the subject of computers and computer software”.***

“Sure! Here's a trivia quiz on computers and computer software:

1. What does the abbreviation "CPU" stand for?

- a) Central Processing Unit
- b) Computer Processing Unit
- c) Core Processing Unit
- d) Central Power Unit

2. Which programming language is known as the "mother of all languages"?

- a) Python
- b) C++
- c) Java
- d) Assembly

3. Which company developed the first graphical web browser?

- a) Mozilla
- b) Google
- c) Microsoft
- d) Netscape

4. What is the function of an operating system?

- a) Manage hardware resources
- b) Provide a user interface
- c) Run applications
- d) All of the above

5. What does the acronym "HTML" stand for?

- a) HyperText Markup Language
- b) Hyperlink and Text Markup Language
- c) High Tech Markup Language
- d) HyperTool Markup Language

6. Which programming language is commonly used for creating web applications?

- a) Ruby
- b) PHP
- c) Swift
- d) Objective-C

7. Which company developed the Java programming language?

- a) Apple
- b) Microsoft
- c) Oracle
- d) Sun Microsystems

8. What does the acronym "URL" stand for?

- a) Uniform Resource Locator
- b) Universal Reference Link
- c) Uniform Reference Locator
- d) Universal Resource Link

9. Which computer programming concept allows code to be written in a more organized and reusable manner?

- a) Object-oriented programming
- b) Functional programming
- c) Procedural programming
- d) Assembly programming

10. Which popular text editor is often used by programmers?

- a) Notepad
- b) Microsoft Word
- c) Sublime Text
- d) Photoshop”

# Trivia Quiz Answers

*Prompt: "Create a trivia quiz on the subject of computers and computer software".*

"Answers:

1. a) Central Processing Unit
2. b) C++
3. d) Netscape
4. d) All of the above
5. a) HyperText Markup Language
6. b) PHP
7. d) Sun Microsystems
8. a) Uniform Resource Locator
9. a) Object-oriented programming
10. c) Sublime Text"

# Marney's Whimsical Example

***Prompt: "Get a days itinerary for three ducks to go from Docklands near London to Bath England."***

*"Sure! Here's a day's itinerary for three ducks traveling from Docklands near London to Bath, England:*

8:00 AM: Depart from Docklands

- The ducks can start their journey by waddling or flying along the Thames River, enjoying the scenic views of the city of London.

9:30 AM: Arrive at Kew Gardens

- Kew Gardens, located in southwest London, is a beautiful botanical garden with stunning landscapes and a wide variety of plants. The ducks can take a leisurely stroll through the gardens, explore the glasshouses, and maybe even make some feathery friends.

11:30 AM: Travel to Windsor

- From Kew Gardens, the ducks can make their way to Windsor, a historic town famous for Windsor Castle, the official residence of the Queen. They can take a quick flight or continue their journey by waddling along the River Thames.

1:00 PM: Lunch in Windsor

- Once in Windsor, the ducks can find a cozy spot near the riverbank to enjoy a picnic lunch. They can nibble on some bread or seeds while taking in the picturesque views of the castle.

2:00 PM: Explore Windsor Castle

- After lunch, the ducks can visit Windsor Castle, where they can admire the grandeur of the royal residence, explore the State Apartments, and perhaps even catch the Changing of the Guard ceremony if it's scheduled for that day.

4:00 PM: Depart for Bath

- It's time to continue the journey from Windsor to Bath. The ducks can take to the skies and fly over the beautiful English countryside, enjoying the scenic landscapes as they make their way westward.

6:00 PM: Arrival in Bath

- The ducks arrive in Bath, a UNESCO World Heritage site known for its Roman baths and stunning Georgian architecture. They can settle in for the evening, finding a comfortable spot near the River Avon or exploring the city streets.

7:30 PM: Dinner in Bath

- Bath offers a wide range of dining options, from cozy pubs to fine restaurants. The ducks can find a restaurant that accommodates their needs and enjoy a delicious dinner, savoring the local cuisine.

9:00 PM: Relaxation time

- After a long day of travel and exploration, the ducks can find a peaceful spot to rest and relax. They can enjoy the serene atmosphere of Bath and maybe even take a dip in the hot springs if they're up for it.

10:30 PM: Bedtime

- With the day's adventures coming to an end, the ducks can find a safe and cozy place to settle down for the night, ready to continue their journey or explore more of Bath the following day.

Please note that this itinerary assumes the ducks are capable of flying and includes approximate timings for reference. Adjustments can be made based on the ducks' travel capabilities and preferences."



# Midjourney Images for Marney's Duck Example



Three ducks waddling alongside the Thames River in Docklands England



Three ducks at Kew Gardens in England



Three ducks visiting Windsor Castle in England



Three ducks resting along the banks of River Avon in Bath England



Three ducks enjoying dinner in Bath England



Three ducks sleeping at night in Bath England

# AI is Here

- It is important to understand the advantages and limitations of AI because it is currently being used on our computers, tablets, and smart phones
- AI can be a great asset to assist us in our daily tasks, but AI is also vulnerable to misuse - there is no substitute for human intelligence
- There is no better way to understand AI than to begin using it



# Let's Try Out ChatGPT

- Enter your questions into our Zoom Meeting Chat and I will transfer them into ChatGPT
- Remember to be specific