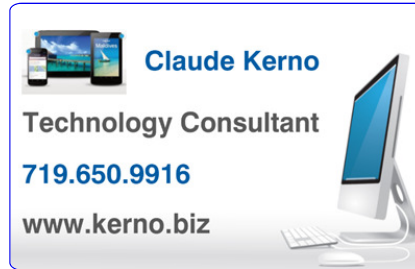View this email in your browser

Kerno.biz LLC Newsletter   **May 2023**

Artificial Intelligence (AI) is in the news a lot these days, but what is it and how can we use it now? This a complex and all encompassing subject, so I will attempt to keep it very simple. "Artificial" means the "intelligence" is created by machines instead of humans. Computer programmers, such as Geoffrey Hinton, have been working on the computer code to make it all work for decades. It is now going mainstream and society has some major issues to tackle on how the technology should (or not) be used when it comes to issues such as elections, warfare, jobs and the professions. This newsletter won't attempt to tackle those issues, but instead, focuses on how we can use AI now.

As with everything else on the Internet these days, there is a lot of junk out there pretending to be AI. If you click on the wrong link or install the wrong app, that could be harmful to your computer or device. So here are some links to the legitimate companies and services in the AI field.

Feel free to play with these new AI tools and let me know if you get stuck on any of this.

Glossary of Terms
First, let's understand a few terms:

- Artificial Intelligence (AI) is "intelligence" created by machines (aka computer code).

- OpenAI is an American artificial intelligence research laboratory founded in San Francisco in 2015.

- ChatGPT is Open AI's Chatbot released to the public in November 2022.

- Chatbot is an AI application to simulate human conversation, you and the machine (the "bot") "chat" with each other.

- Bing Chat is Microsoft's Chatbot powered by ChatGPT. Microsoft invested $10 billion in OpenAI.

- Bard is Google's Chatbot (competing with OpenAI's ChatGPT and Microsoft's Bing Chat).

- DALL•E 2 created by OpenAI, is an AI system that can create realistic images and art from a description in natural language.

- Bing Image Creator is Microsoft's version of DALL•E 2.

Chatbots
With a Chatbot, you enter into a "conversation" or "chat" with a computer program, a "bot". You might go to a website, or you might use an app on your cell phone. Type anything you want and wait a few seconds for the response. Ask a question, ask it to create something, anything you want. Here are a few examples:

- **I asked Microsoft Chat a question**

✓ Generating answers for you...

The reasons behind Putin's invasion of Ukraine are complex and multifaceted. According to [1], the cause of the military conflict can be tied to a complicated history, Russia's tensions with NATO and the ambitions of Vladimir Putin. Putin believes that Ukraine and Russia are the same country and Ukrainians and Russians the same people [2]. Another reason is purely military and is about 95% of it. It is that Putin sees an Ukraine part of NATO as an existential threat to Russia's existence [2].

Putin said on the first day of invasion that his reason for invading was to protect people who have been subjected to bullying and genocide for the last eight years [3]. However, according to [4], Putin was enraged by the "personal attack" on Viktor Medvedchuk, a longtime acquaintance of Putin. Medvedchuk himself influenced the Russian president to invade.

I hope this helps!

Learn more: 1. usnews.com   2. linkedin.com   3. express.co.uk   4. newsweek.com   +1 more   3 of 20 ●

- **I asked Google Bard the same question**

✦ Vladimir Putin has given a number of reasons for invading Ukraine, but the most likely explanation is that he wanted to prevent Ukraine from joining NATO. NATO is a military alliance of 30 countries, and its members are committed to defending each other if they are attacked. Putin sees NATO as a threat to Russia, and he was worried that if Ukraine joined NATO, it would give the alliance a foothold on Russia's borders.

Other possible reasons for the invasion include:

- Putin's desire to restore Russia's sphere of influence in Eastern Europe.
- Putin's belief that Ukraine is not a real country and that it should be part of Russia.
- Putin's desire to weaken Ukraine so that it cannot pose a threat to Russia in the future.

Whatever the reasons for the invasion, it has had a devastating impact on Ukraine. Thousands of people have been killed, and millions have been displaced from their homes. The war has also caused a humanitarian crisis, with millions of people in need of food, water, and shelter.

The invasion of Ukraine is a major turning point in European history. It has led to a reassessment of security in the region, and it has raised fears of a wider conflict. The war is also having a significant impact on the global economy, and it is likely to have a lasting impact on the world order.

- **I asked Microsoft Chat to create something**

Here's a poem about artificial intelligence using Peanuts characters names:

Snoopy's AI is quite the thing, It can do almost anything. With Woodstock by his side, He can take you on a ride.

Linus' AI is quite unique, It can help you when you're weak. With his blanket by his side, He'll be your guide.

Lucy's AI is quite the sight, It can help you see the light. With Schroeder by her side, She'll be your guide.

I hope you enjoyed this poem!

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- **I asked Google Bard to create the same thing**
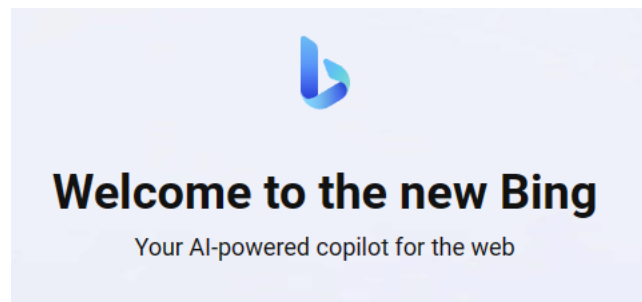
Snoopy and the AI

Snoopy was a beagle,
A dog of great renown.
He could fly a kite,
And talk to the Great Pumpkin down.

But one day, something strange
Happened to Snoopy's brain.
He started to think,
And talk, and even complain.

"I'm not a dog," he said.
"I'm an AI,
A machine that thinks,
And feels,
And even cries."

Charlie Brown was shocked.
"What are you talking about?" he said.
"You're just a dog,
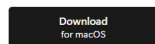A beagle,
My best friend."

How to use Microsoft's Bing Chat

Welcome to the new Bing
Your AI-powered copilot for the web

Bing Chat is one of the easiest ways to use a Chatbot today. Simply go to https://bing.com/chat in *Microsoft Edge*. (Note: For now, you cannot use *Google Chrome* nor *Apple Safari*, or any other browser, you must use *Microsoft Edge* browser. If you use *Windows 10/11* you already have *Edge* installed.) If you want to try *Edge*, you can install it on *Mac, iOS (iPhone & iPad)* and *Android*. Click here to download it.

macOS
Microsoft Edge was designed to feel at home on a Mac
Download for macOS

iOS
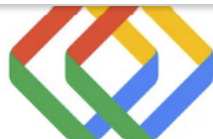Sync your passwords, favorites, and collections, across your iOS devices
Download on the App Store

Android
Sync your passwords, favorites, and collections, across your Android devices
GET IT ON Google Play

How to use Google's Bard

All the top tech companies will be players in the AI field. *Bard* is *Google's* version of a Chatbot. Simply go to https://bard.google.com to get started.

How to use OpenAI's ChatGPT

To use *OpenAI ChatGPT* you must create and account and sign in. *ChatGPT* has a free limited version and a paid *Plus* version. Unless you have a real need or desire to use *ChatGPT*, keep things simple and just stick with *Microsoft* or *Google's* Chatbots. If you want to play with *ChatGPT* you can create an account at either:

- *ChatGPT* website: https://openai.com/product/chatgpt to get started

- *ChatGPT iPhone* app: You can also install the *iOS app* on your *iPhone* (you can install it on an *iPad*, but it is designed for *iPhones* and will not fill an *iPad* screen)
    - 9to5 Mac - OpenAI launches free ChatGPT for iPhone app

Image Creation and editing with AI

Both DALL•E 2 ($) and Bing Image Creator (free) let you create images by typing what you want in natural language. For a video explanation of how *DALL•E 2* works, see DALL·E 2 Explained on Vimeo (3 minute video).

Here are two examples. One produced a professional looking photo on *DALL•E 2* (you must buy credits) and another an amateurish photo on *Bing Image Creator*.

3D render of a cute tropical fish in an
aquarium on a dark blue background, digital
art

AI Generated Image with *DALL•E 2*

Remember when Spaces Shuttles used to ride on the back of 747s?

Real Photo

Well, I asked *Bing Image Creator* for a photo of a dolphin riding on the back of a 747, and this is what I got. I need to work on my requests!

AI Generated Image with *Bing Image Creator*

Government Regulation of AI?

As with all tools, they can be used for good or for ill. Society must decide in the grand scheme of things if any guard rails should be placed on AI. The best minds in the industry are working on it, and now is the time for all of us to think about how these tools should be used.

There are many existential threats of AI. This 18 minute interview with Geoffrey Hinton the "Godfather of AI" explains some of the issues well.

[Amanpour and Company - "Godfather of AI" Geoffrey Hinton Warns of the "Existential Threat" of AI](#)

Here is a link to a short 15 minute edited clip of a Senate hearing this week to give you and idea of the issues being discussed.

Also, CBS 60 Minutes had an excellent 27 minute episode on *Google Bard.*

[60 Minutes - The AI revolution: Google's developers on the future of artificial intelligence](#)

More Info:

- [DigitalTrends - The best AI chatbots to try out: ChatGPT, Bard, and more](#)

- [DigitalTrends - The best apps powered by GPT-4](#)

- [Sam Altman, CEO of OpenAI, on DALL•E 2](#)

- [Washington Post - You may soon be able to use AI in Microsoft Word, Outlook](#)

- [9to5 Mac - OpenAI launches free ChatGPT for iPhone app with Whisper support and more](#)

- [Wired - I Finally Bought a ChatGPT Plus Subscription—and It's Worth It](#)

Security checklist for you
and your technology

- I have an external backup drive for my computer ([Windows](#), [Mac](#))? Yes_____ No_____ and I know how to check that it is working? Yes_____ No_____ ([more info](#))

- I am using off-site cloud storage for my important data (you may need/are using more than one)? Sign in at the website to see the data you would be able to recover.
  - [Apple iCloud](#): Yes_____ No_____ (see what you find at https://icloud.com)

  - [Microsoft OneDrive](#): Yes_____ No_____ (see what you find at https://onedrive.com)

  - [Google Drive](#): Yes_____ No_____ (see what you find at https://drive.google.com)

  - [Dropbox](#): Yes_____ No_____ (see what you find at https://dropbox.com)

- Other: _____

- None: _____

- My cell phone backup is turned on?
    - iOS backup (Apple): Yes_____ No_____

    - Android backup (Google): Yes_____ No_____

- My computer has all its updates/upgrades (Windows, Mac)? Yes_____ No_____ Cell phone (Android, iOS)? Yes_____ No_____

- I am using security software on my computer?
    - Built-in security (Windows, Mac)_____

    - Norton_____

    - MacAfee_____

    - Other: _____

- I am using random/unique passwords for every account? Yes_____ No_____

- I have turned on 2FA/MFA on every account where available? Yes_____ No_____

- I am using a password manager (or document, spreadsheet, pdf) to keep track of passwords? Yes_____ No___
    - Name: _____

- I have frozen my credit files?
    - TransUnion: Yes_____ No_____

    - Experian: Yes_____ No_____

    - Equifax: Yes_____ No_____

    - National Consumer Telecom & Utilities Exchange (NCTUE): Yes_____ No_____

- I have an IRS Identity Protection PIN (IP PIN)? Yes_____ No_____ (Note: Must be renewed every tax season.)

- I am getting a free credit report alternating once every 4 months from TransUnion, Experian, Equifax? Yes_____ No_____

    Security Checklist PDF version or DOC version