ART AND ARTIFICIAL INTELLIGENCE

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Outline

- Intro - Image Generator example
- The Rise of Image Generators
  - What are they, how do they work
- The Death of Art?
- Prominent AI Artists
- How to Use AI in Art
- How to Use AI in Photography

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Slide Show and Video

- Go to: www.techhelptoday.com/videos
  - Or: bit.ly/libraryai
- Look for: *Art and Artificial Intelligence*
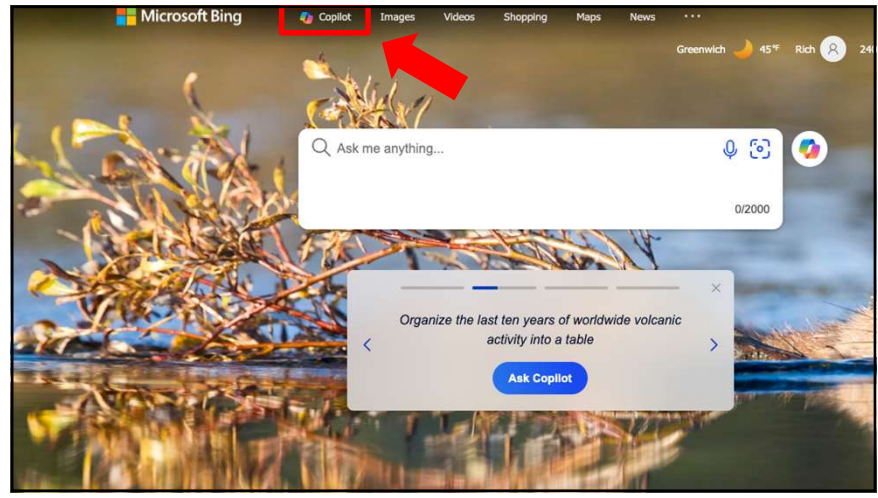- Click the link for the slide show (PDF)

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Who Is Rich Malloy?

- Computer Consultant
- Former College Professor
  - IT Dept., Norwalk Community College
- Former Magazine Editor
  - Editor-in-Chief, *Mobile Computing* magazine
  - Executive Editor, *Byte* magazine
- MBA, Uconn
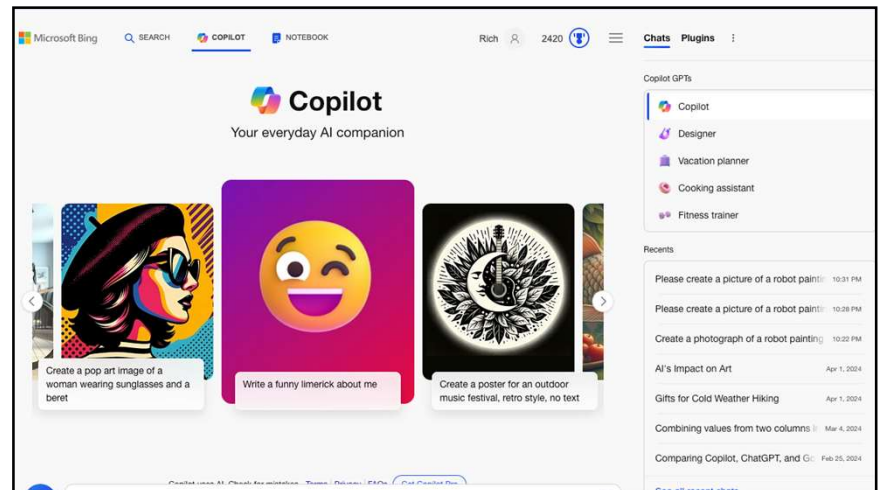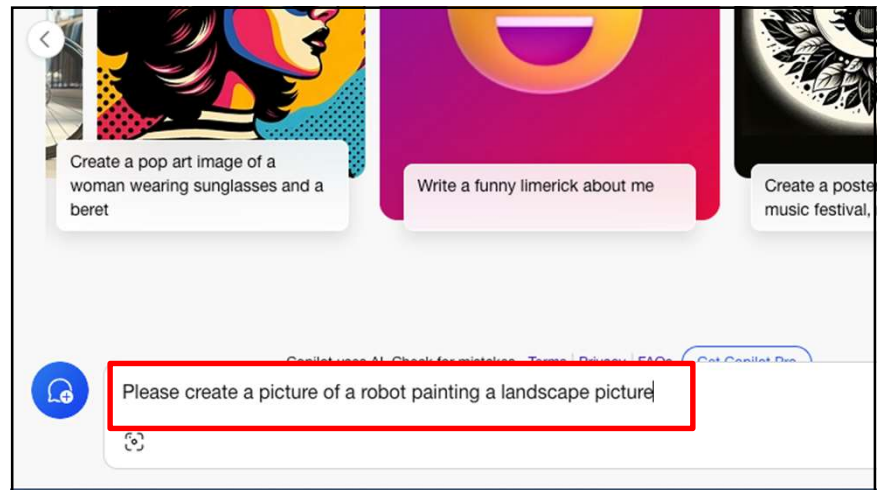- Studied at Art Students League

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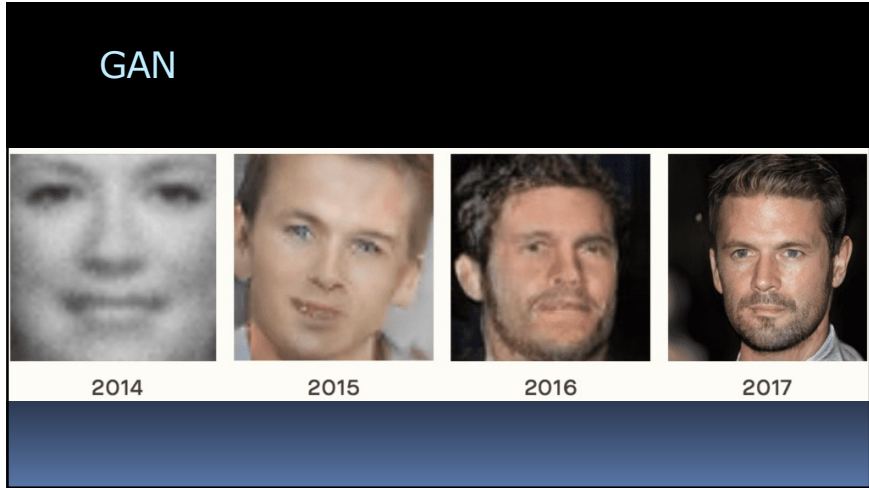## What's Going On?

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THE RISE OF THE IMAGE GENERATOR

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GAN

- Introduced in 2014
- Two algorithms fight each other
  - Fake generator
  - Fake detector
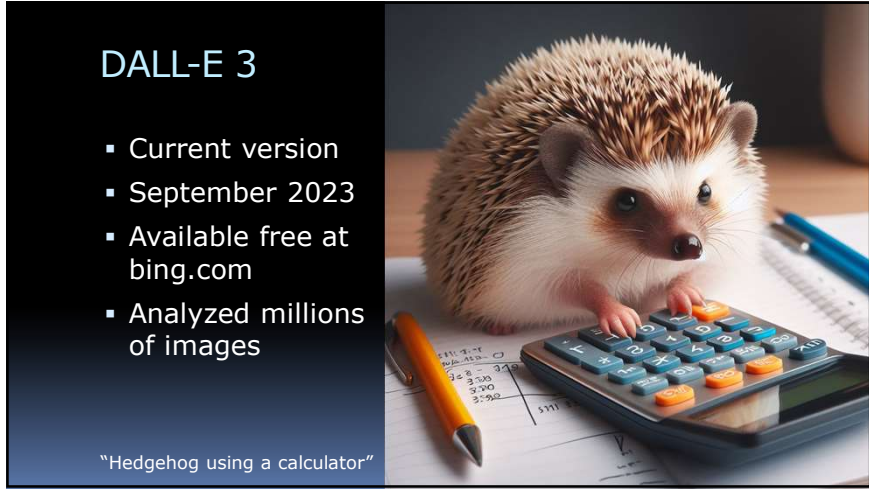- Result: Each gets better and better

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GAN

| 2014 | 2015 | 2016 | 2017 |

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DALL-E

▪ From OpenAI, 2021

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DALL-E 3

▪ Current version
▪ September 2023
▪ Available free at bing.com
▪ Analyzed millions of images

"Hedgehog using a calculator"

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"Hedgehog using a calculator"

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AI Image Generators

- GANBreeder
- DALL-E
- Midjourney
- Stable Diffusion
- Adobe Firefly
- Craiyon
- Microsoft Designer
- Dream Studio

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AI Image Generators

- Microsoft Designer
- Dream Studio
- Dream
- Image FX
- Generative AI
- Nightcafe
- Canva
- Pixlr

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WHAT DOES THIS MEAN?

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Paul Delaroche

- Early 19th century French portrait artist
- Might spend months on a painting

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Paul Delaroche

- In 1840
- Saw an early daguerreotype

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Paul Delaroche
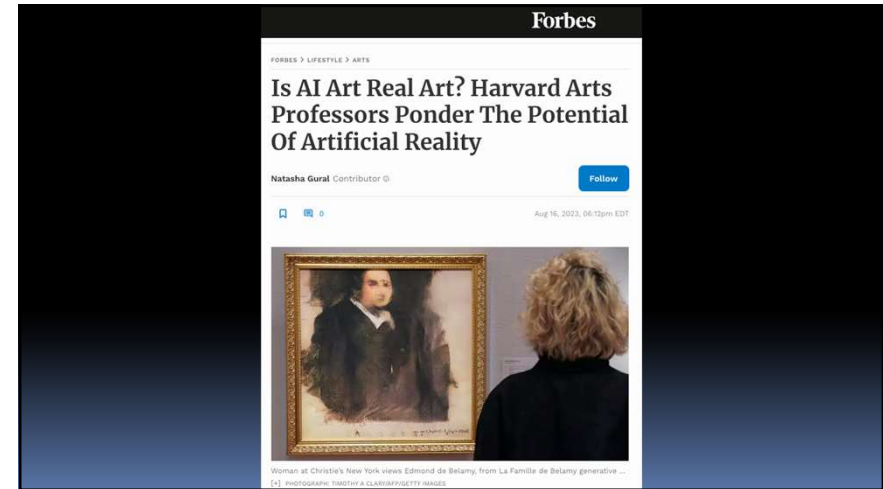
"From today, painting is dead!"

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In 2024, is *art* dead?

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IS AI ART REALLY ART?

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Is AI Art Real Art? Harvard Arts Professors Ponder The Potential Of Artificial Reality

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Pindar Van Arman, AI Artist

- Used AI to help create more paintings
- "Some people loved it. Some people hated it. Some artist friends despised it."

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Moshe Safdie, Architect, Harvard

"AI can imitate something that's already been created and regurgitate it in another format, but that is not an original work."

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S. Will Chambers, Artist and AI strategist

- "AI agents are not creating art; rather they are replicating art."
- "… the AI agent is generating symbols and forms whose intrinsic meaning it does not understand."

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- "Théâtre D'opéra Spatial" by Jason Allen
- Won 1st Place at Colorado State Fair Art Show
- Created using Midjourney
- "I put over 80 hours into this project"
- 624 prompts

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- US Copyright Office refused to register a copyright
- Using AI to generate art was a "merely mechanical" process with "no place for novelty, invention, or originality"
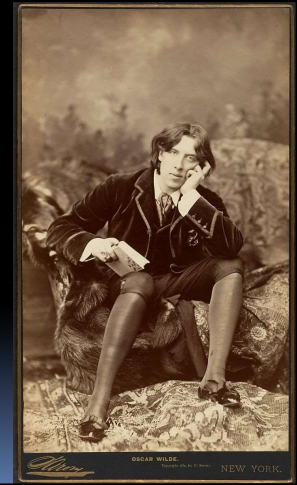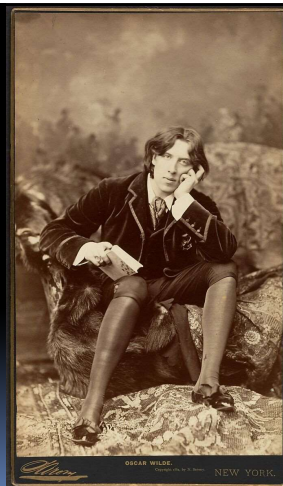
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What About Photographs?

- Originally, photographs could not be copyrighted
- Napoleon Sarony's portrait of Oscar Wilde, 1882
- Sarony sued to obtain copyright

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The Supreme Court:

- Ordinary photos merit no protection
  - "Mere mechanical reproduction"
- But the Wilde photo reflected Sarony's "original mental conception"
  - The costume, background, pose, lighting, etc.

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Photography vs AI Art

- Now all photographs are copyrighted
  - Regardless of the work done by photographer

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Photography Copyright Status

- First, no copyrights
- Then, some photos worthy of copyrights
- Finally, all photos have copyrights

- *Will we do the same for AI art?*

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Mike Wardynski, Photographer

- "Perhaps the biggest issue with AI-generated artwork is that it is essentially plagiarizing the work of real artists."

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Mike Wardynski, Photographer

- "Perhaps the biggest issue with AI-generated artwork is that it is essentially plagiarizing the work of real artists."

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Banning AI Art

- Getty Images now bans images created with AI

gettyimages®

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"Art is in the eye of the beholder, and everyone will have their own interpretation."

— E.A. Bucchianeri, *Brushstrokes of a Gadfly*

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ARTISTS WHO USE AI

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Artists Who Use AI

- Regardless of the controversy around AI and legal uncertainty, several artists are using AI to create serious work
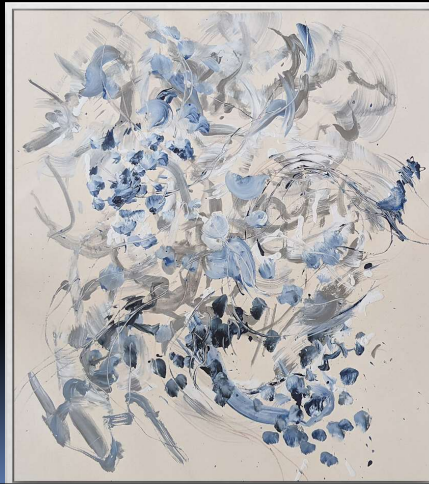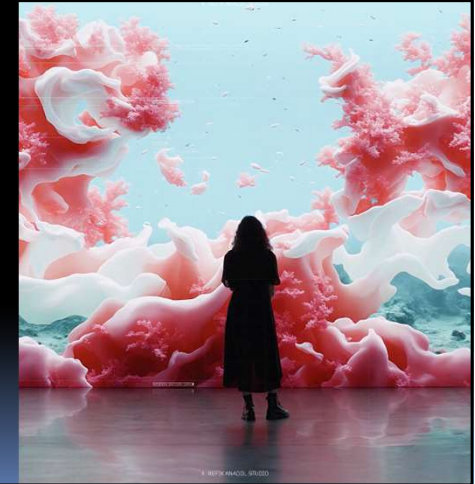
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Sougwen Chung

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Sougwen Chung

- Draws with robots and by hand

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Refik Anadol

- Did an installation for MOMA
- 2023

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Sofia Crespo

- Uses AI algorithms to generate images

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HOW TO USE AI
TO CREATE IMAGES

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Best Free AI Image Generators

- DALL-E 3
- Adobe Firefly
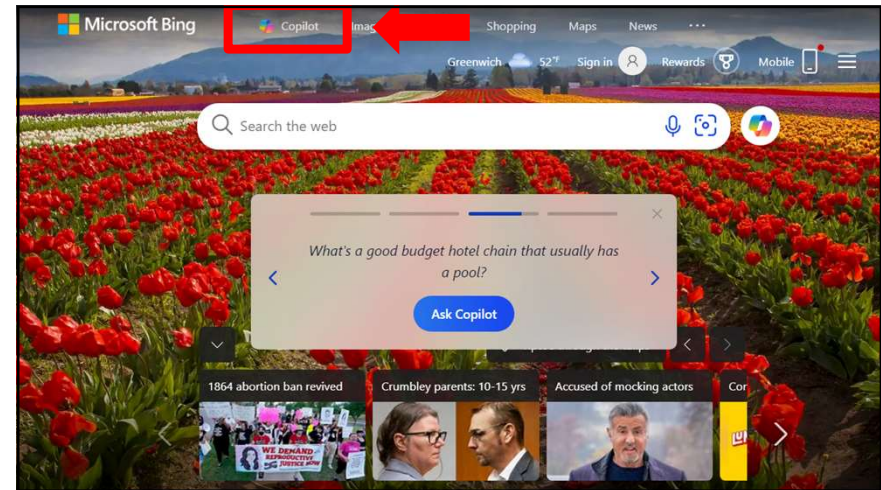- Google Gemini

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DALL-E 3

- From OpenAI
  - Same company that produces ChatGPT
- Available from Microsoft as Copilot
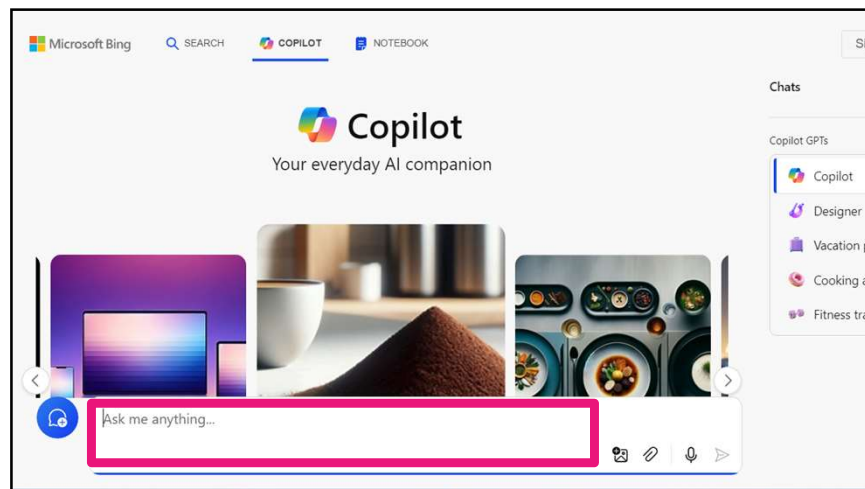- Free, accessible, easy to use, pretty good

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DALL-E 3

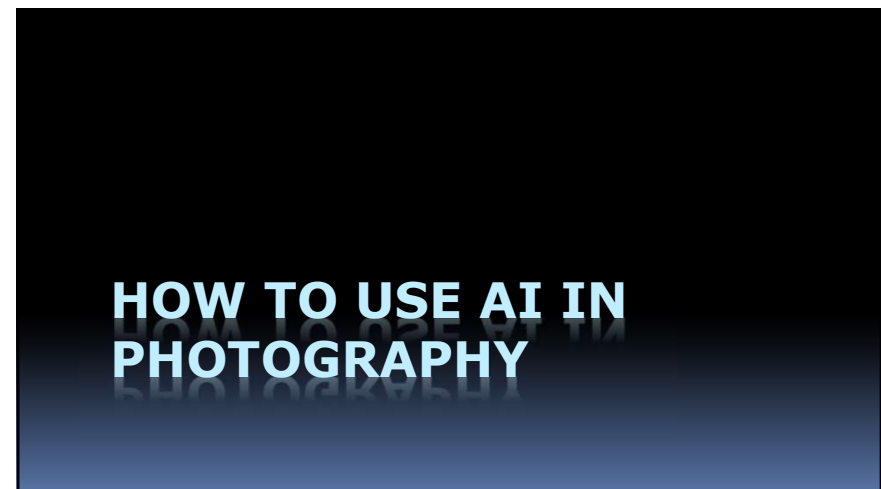- Go to: bing.com
- Click: Copilot
- Type a "prompt"

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HOW TO USE AI IN PHOTOGRAPHY

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Best AI Photo Editors

- Photoshop, $240/yr
- Canva Pro, $120/yr

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Photoshop AI Features

- Regenerative Extend
- Content Aware Fill
- Regenerative Fill

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Thank You!

Rich Malloy

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