



Practical Applications with Google Al using Gemini for Workspace

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Meet the Speaker

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Cloud Fellow / Principal Evangelist, DitoWeb.com CEO Emeritus, PCCC.com

- Distinguished Senior Fellow in Cyber Security at Thomas University's Armed Services Institute in the Center for Military Life
- Member, Apache Software Foundation
- Google Developer Expert for Cloud, Workspace & Machine Learning / Artificial Intelligence
- Member, U.S. Marine Corps Cyber Auxiliary
- M3AAWG 2025 Mary Litynski Award Winner for lifetime achievements in making the internet safer

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Google Workspace

Caricature courtesy of Cartoon Bob, used with permission

How I Got Interested in AI: "The Test," by Theodore Thomas

https://www.auburn.wednet.edu/cms/li b/WA01001938/Centricity/Domain/220 5/The%20Test.pdf

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What is Natural Language Processing?



MAD@LIBS* A PEANUT AND HIS POOCH

If you've ever met my	, Snoopy, then you know he's not
your average canine companio	n. Some kids might find it
that their beagle has such ala	n imagination, but not

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TL;DR: Think about your Grammar and Thank an English Teacher MadLib from https://www.readbrightly.com/mad-libs-printables-activities/



First, a warning:

"Never work with children or animals" (or do a live demo)...

- W.C. Fields (mostly)

Draw a beautiful version of a rubberband riding a door while running a plant while drinking strawberry daiquiri in the style of van gogh with the words "ISSA of Central Maryland

Interesting note about the quote.

Never let an engineer name anything... Nano Banana

Imagen

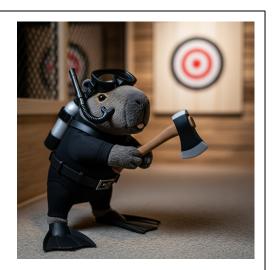
Imagine not Image Gen... *brain explodes*

Demo #1: Create an image.

I like to do things that match colors. GenAl is NOT a database.

IMPORTANT: Creating w/AI may impact the ability to copyright or patent (Pros & Cons).

Demo #2: Upscale and Clean Up Willard's Army Photo & Add a Birthday Cake for Dylan



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create a stuffed animal of an capyberra playing axe throwing in a scuba suit with the following hex colors <#000000> and <#060606>

What is Artificial Intelligence (AI)?



Data Science / Analytics

insights and hypotheses based on data

anywhere: on a napkin, grid paper, Google Sheets



Machine Learning (ML)

builds on data science and hypotheses

uses computer models to create predictions for new data based on the data science



Artificial Intelligence (AI)

builds on ML to take action based on predictions

Trivia: Thomas Bayes' book was published posthumously in 1763

Credit: Based on Dave Robinson's Al Publications



7

True Al Creates the models

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8

Ethical Al Includes the Ability for a Human to recreate the Al's decision

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9

KAM's definition

Overcoming Fear & Apprehension with Ethical



Zip Code Fiasco



Bank Loan Bug



Failure to Think Evil

Publishing things such as GANs such as thispersondoesnotexist.com and creating deepfake technology without considering the negative unintended uses.

PROBLEM: Not everyone uses technology as intended or for good.



Robot Takeovers

"We don't know who struck first, us or them. But we do know it was us that scorched the sky. At the time, they were dependent on solar power."

PROBLEM: Watching too many movies & Reading too much/little of Ellison and Asimov:-)

"Al is like a drunk friend at the bar with an MBA and a law degree. Trust but verify."

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Rich Foltak, Dito, VP of Cloud

THINK EVIL

ThisPersonDoesNotExist.com ThisRentalDoesNotExist.com



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Open-Source: Everyone knows what it's doing.

Closed-Source: Only the vendor knows what it's doing.

AI: Nobody knows what it's doing.
- Mike Hillyer, KumoMTA

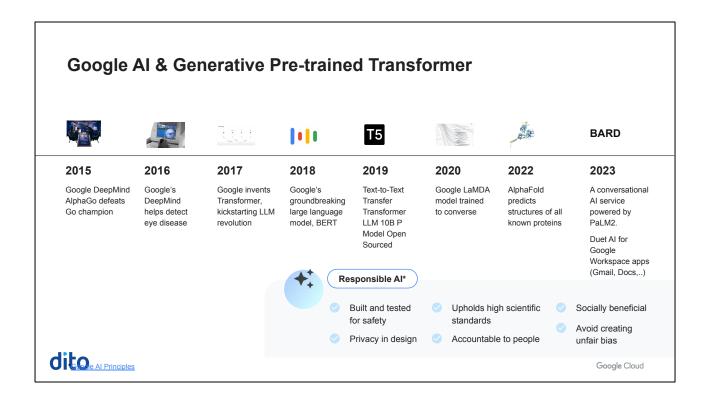


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I like to say that we are on the very beginning edge of the Star Trek era.

What does GPT stand for? Who invented it? When?

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Google Slide, Used with Permission

First use of Transformer was for Google Translate almost a decade ago with their whitepaper a few years later

Real-World Use of Google Translate











Translate your text across 3 continents such as English -> Portuguese -> Simple Chinese -> English. If the gist of the information remains, your technical writing will translate well!

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"Multi-modality is the application of multiple literacies within one medium."

Any questions?

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In school, you heard it, you wrote it, you did it, you knew it.

In AI, it means that you can use Text + Video + Images + Live Video + Live Audio + Recordings + Hand Gestures

Integration Overview



The Gemini Star



Side Panel

"Enter a prompt here"

Nudges

"Help me write"

Building Blocks & Help Me Write

Let's do a few demos: Side

Panel with Gmail,

Docs and an Email Building

Block.

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Gemini Star from https://commons.wikimedia.org/wiki/File:Google-gemini-icon.svg

BTW, never let engineers name anything. Gemini is a constellation NOT a single star. The Gemini TWINS.

Glossary Term: Contextuality

Creating a Policy



Canned Demo

Let's take a look at

This Document with a new policy

Live Demo

Let's create an Incident Response Plan

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Canned demo shows a real hiring policy created in less than 30 minutes with 10 minutes of research and 18 minutes of writing and improving with Gemini.

This is the result of the live demo:

https://docs.google.com/document/d/1WWxSznemJFm1oC_ptNRYDQn2YfPu-vf0Bm DBDzWDIWI/edit?tab=t.0 Quick prompt was: "Please write an incident response plan for senior and executive staff who lose their phone and have lost contact with it for more than 20 minutes. Include contact information for AT&T."

Persona: Specify the role or perspective you want Gemini to adopt. This helps it tailor the output to your needs. Task: Clearly state the action you want Gemini to perform. Include a verb or command, such as summarize, write, change the tone, or create. Context: Provide relevant information to help Gemini understand your request. This can include details about specific documents, projects, or goals. Format: Specify the desired output format. For example, you might request a bulleted list, an email draft, or a summary.

Persona/Task/Context/Format

Prompts should include Persona / Task / Context / Format

Prompts are both art and science

Hone your Prompt-Fu

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Source: Google GenAl for Work by Amy Yuan

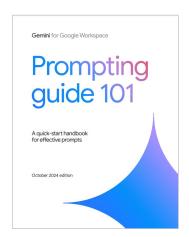
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Write a prompt like you are Making a deal with the Devil

Prompting Guide 101

This second edition of the prompting guide is crucial reading in the AI Era.

https://services.google.com/fh/files/ misc/gemini-for-google-workspaceprompting-quide-101.pdf



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Learning about the Gemini App

Live Demo: Gemini.google.com

 Demo #1 Normal and Deep Research on a Security Topic -Perhaps "Post Quantum Cryptography"?

 Demo #2 Transcribe Business Cards

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Result from Demo 1 on a

https://docs.google.com/document/d/1-5gO8Rs3adyxw1pG6GalAZHYhkKf-_jkyNblbE <u>7YuC4/edit?tab=t.0</u> with prompt of "Deep Research" for "how should I implement post quantum cryptography for postfix on Almalinux 8." and "add a step to check nsa.gov and fedramp.gov for any post quantum crytography guidance."

Privacy and Compliance

If you aren't paying for the product, you are the product...

For compliance, a license for Gemini is like a license for Google Workspace. Gemini does not have to be listed specifically for a compliance or security framework because it's built on the Workspace Tech and acts as the user.

This means that with a licensed Gemini product: all data stays within the protection boundary, no humans review the data, and no training or use of the data other than to support the user ephemerally is done.

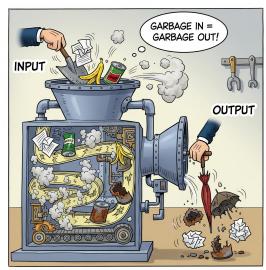
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Vague Prompts Lead to Vague Answers

AKA Garbage In = Garbage Out

Example: Think about making a deal with the Devil. Write out lots of specifics.

Sometimes a "Bad" prompt can be good: "Create me a paragraph about [topic]" is vague but might be good for brainstorming!



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Create a cartoon of garbage in = garbage out

Pronouns and unclear attributions. John and David are students. He wore a sweater today.

Diving into NotebookLM

What is NotebookLM?

How to Access it? notebooklm.google.com

Sharing & Analytics

https://support.google.com/notebooklm/answer/16206563?hl=en

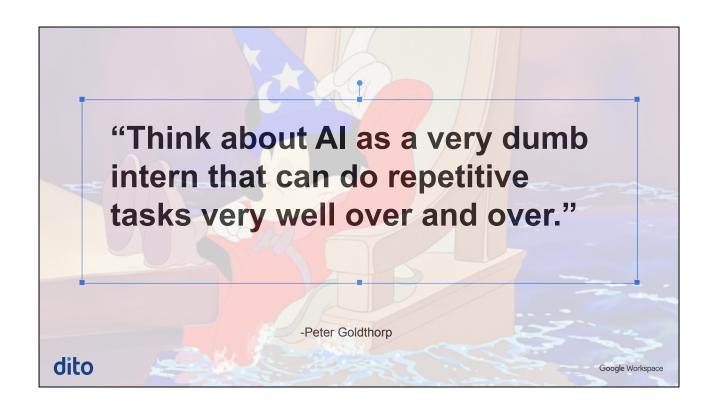
Podcast & Video Overview Features

Demo: Let's build a Notebook on a City or Country.



And Combine with Deep Research from Gemini App...

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Mickey background from Disney from Fantasia

Video Prompting Guide

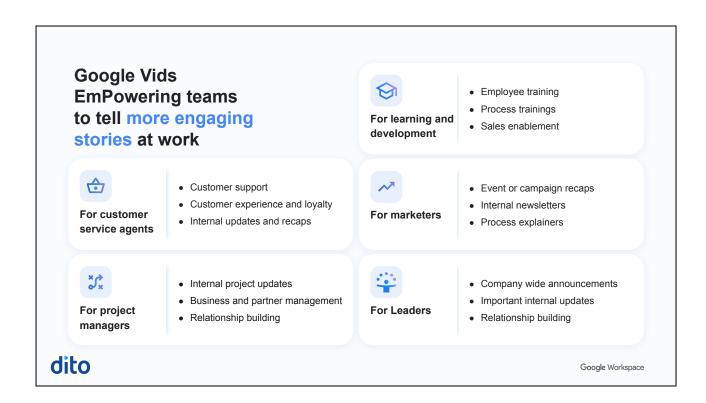
- 1. Subject
- 2. Context
- 3. Action
- 4. **Style** Consider using specific film style keywords, such as *horror film*, *film noir*, or animated styles like *cartoon* style render.
- 5. **Camera motion** What the camera is doing, such as aerial view, eye-level, top-down shot, or low-angle shot.
- 6. **Composition** How the shot is framed, such as wide shot, close-up, or extreme close-up.
- 7. **Ambiance** How the color and light contribute to the scene, such as blue tones, night, or warm tones

Example: Close up shot (composition) of melting icicles (subject) on a frozen rock wall (context) with cool blue tones (ambiance), zoomed in (camera motion) maintaining close-up detail of water drips (action).



Google Workspace

Using **Subject** <photo> have them **Action** juggle chainsaws **Context** with the text ISSA on the bar of the chainsaw in the **Style** style of a lego minifig with a **Camera Motion** top-down shot that ends with **Composition** an close up. **Ambiance** The overall feel should be cartoony and bright.



Saving Time, Improving Learning, & Inspiring Creativity

Teaser: flows.workspace.google.com

Let's create an agent!

The prompt is "Please find and summarize recent news articles, press releases, and significant mentions related to "<name a company>". Focus on key developments, financial news, store openings/closings, and competitive landscape information. Provide a concise summary with relevant links. Email the results to xvz@fqdn.tld."

Glossary Terms: Corpora, Grounding & Referencing

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"Ask not what your Al can do for you – ask what you can do for your Al."

-John F. Kennedy's speechwriter in an alternate universe

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How to Get Updates on New Features

Hint: Ask Gemini what it can do

https://workspaceupdates.googleblog.com/search/label/Gemini

Trust No One



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draw a cartoon in the style of the tv show x files that says trust no one in the forest at night vs

draw a cartoon in the style of the tv show "x files" that says "trust no one" in the forest at night

Did I want it to say "trust no one in the forest at night?" ???

More Gemini with Workspace 101 Use Cases



Presentations: Add a slide for... What are the top 10 takeaways?

Live Demo: Generate an Audio Overview & a Quiz in NotebookLM

Glossary Term: Weighting

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1. Create an audio overview of the CISSP Study Guide / Create a Quiz

More Gemini with Workspace 101 Use Cases (Continued)



Live Demo: Edit Images

Live Demo: Create a form and use =AI on the

responses

Run a Parliamentary Meeting (Use Google Docs for the Agenda, Multiple Editors for Minutes, Record, Transcribe, Take Notes, Ask Gemini during the Meeting, Closed Captions with Translation in Real-time, Translate in post)

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1. Use =Al to do sentiment analyzation on a Form Response

Edit the image and change it to a male with no blazer

Thanks!

askKAM@ditoweb.com

https://linkedin.com/in/kmcgrail

dito@emailtester.raptoremailsecurity.com



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Hint: Atkinson Hyperlegible is a perfect font for cybersecurity. fonts.google.com.