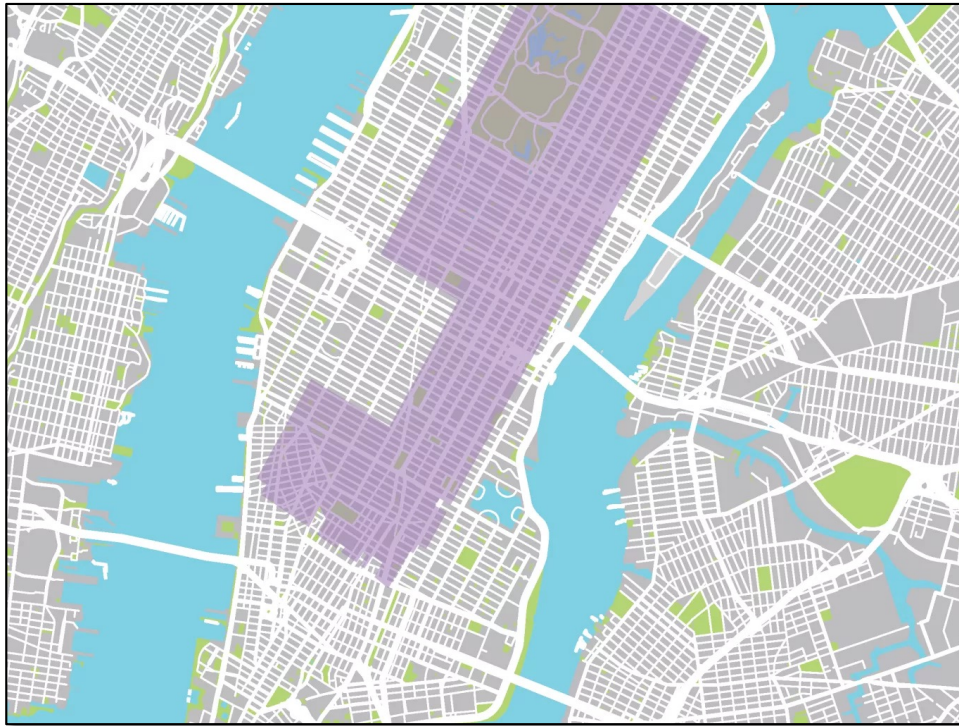


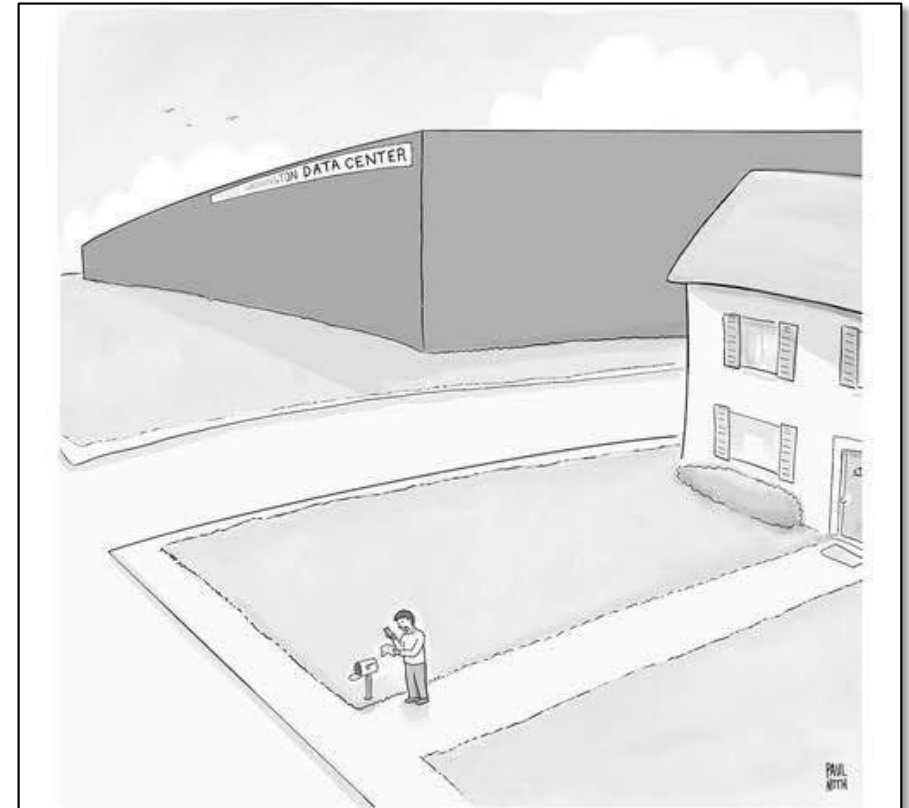
Further Experiments in Artificial Intelligence

Session #2 – Focus on Google Gemini





The footprint of Meta's Hyperion data center site, planned for Richland Parish, Louisiana, overlaid on a map of Manhattan. The massive data center would require 2 GW of power.
Credit:NRDC



“ChatGPT, why is my electric bill so high?”

Differences in Perceiving (*Producing*) Written vs. Spoken Communication

1.Processing Speed

Spoken communication is usually processed more quickly because it's happening in real time. Written communication allows for more time to process, re-read, and reflect. This can lead to a deeper understanding but also delays in initial comprehension.

2.Context and Nuance

Spoken language carries contextual clues like tone, pitch, volume, and pace. These vocal elements help listeners interpret meaning, intent, and emotion. Written language lacks these auditory signals and must use punctuation, structure, and word choice to convey subtleties.

3.Retention and Recall

Written material is easier to store, retrieve, and reference. It supports long-term memory retention because it can be reviewed repeatedly. Spoken words, unless recorded, rely on immediate memory and are more susceptible to being forgotten or misinterpreted.

4. Creativity and Expression

Spoken communication allows for improvisation, natural rhythm, and conversational spontaneity. Written communication, by contrast, often reflects a more deliberate and edited form of expression, making it ideal for precision and complex argumentation.

Vocabulary – Acronyms - Nomenclature

Prompt

Inference

LLM – MMLM – SLM

Multimodal

NLP

AGI

RAG

Token

Hallucinations

Algorithm

Corpus

Compute

API

Vocabulary – Acronyms - Nomenclature

Models

Frontier Models

(values) Alignment

Workflow

Coding

Backpropagation

Bias (Social Bias vs. technical 'bias' (re: weight & bias in neuron))

Cognitive Load

RLHF (Reinforcement Learning from Human Feedback)

Enthusiastic Affirmation

Effective Altruism (EA)

Theory of Mind (ToM)

Vocabulary – Acronyms - Nomenclature

Context – Attention

Persistent Memory (scenarios – research w/ constant preface, or iterative edit of image)

Contextual framing (context setting, Custom Instructions, Persistent Instructions, Session Parameters)

Suite of Products

Constraints (legal, medical)

Context vs. Symbolism/Algorithmic/if...then

Agent/Agentic

Scale – Hyperscale

Doomer – Boomer

p(doom) – probability of doom scenario

Vocabulary – Acronyms - Nomenclature

Artifact

Markdown (.md, LaTeX, Lilypond)

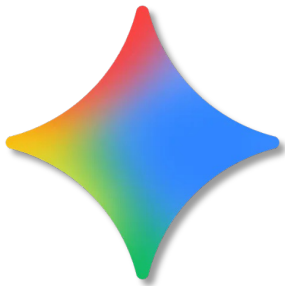
Model Collapse

Misinformation vs. Disinformation

Emergent Behavior (unexpected behavior arising in large models)

Augmentation (augment human work, not replace humans)

Vector Database



Differences in Perceiving (*Producing*) Written vs. Spoken Communication

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Prompt Editor – General Definition

SIDEBAR

MAIN CONTENT AREA

Enter your prompt here...

SEND

AI Editor Capabilities: A Quick Guide

Level 1: The Basics

- Automatic Text Correction:** Fixes typos as you type.
- Use on Any Device:** Access on your computer, tablet, or phone.
- Copy, Paste, & Save:** Easily use the AI's answers elsewhere.
- Refine Answers Step-by-Step:** Make changes through conversation.

Level 2: Managing Your Chats

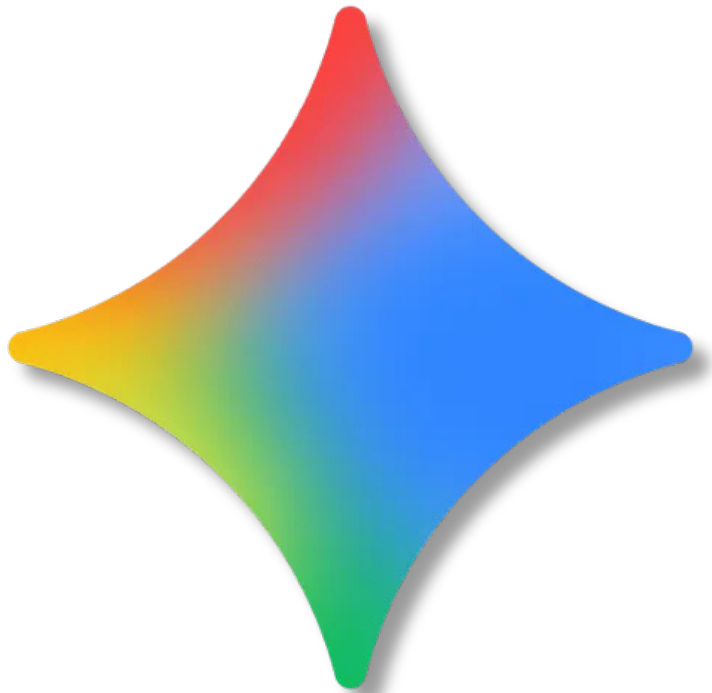
- **Short-Term Memory:** Remembers the current conversation.
- **Long-Term Archive:** A "file cabinet" for all past chats.

Level 3: Beyond Text (Files & Images)

- Drag & Drop Files:** Upload documents for the AI to read.
- Read Text from Images:** Extracts text from photos and scans.
- Works with Multiple Media:** Understands text, images, and sound.
- Create Images:** Generates new pictures from your words.
- Edit Images:** Makes changes to pictures using simple commands.

Level 4: Advanced Control

- **Use AI in Other Apps:** Works inside your email, Word, etc.
- **Set the AI's Personality:** Control the tone of the responses.
- **Give Permanent "Ground Rules":** Instructions that apply to every chat.
- **Provide Feedback:** "Thumbs up/down" to help the AI improve.
- **Check the Sources:** See where the AI got its information.



SIDEBAR

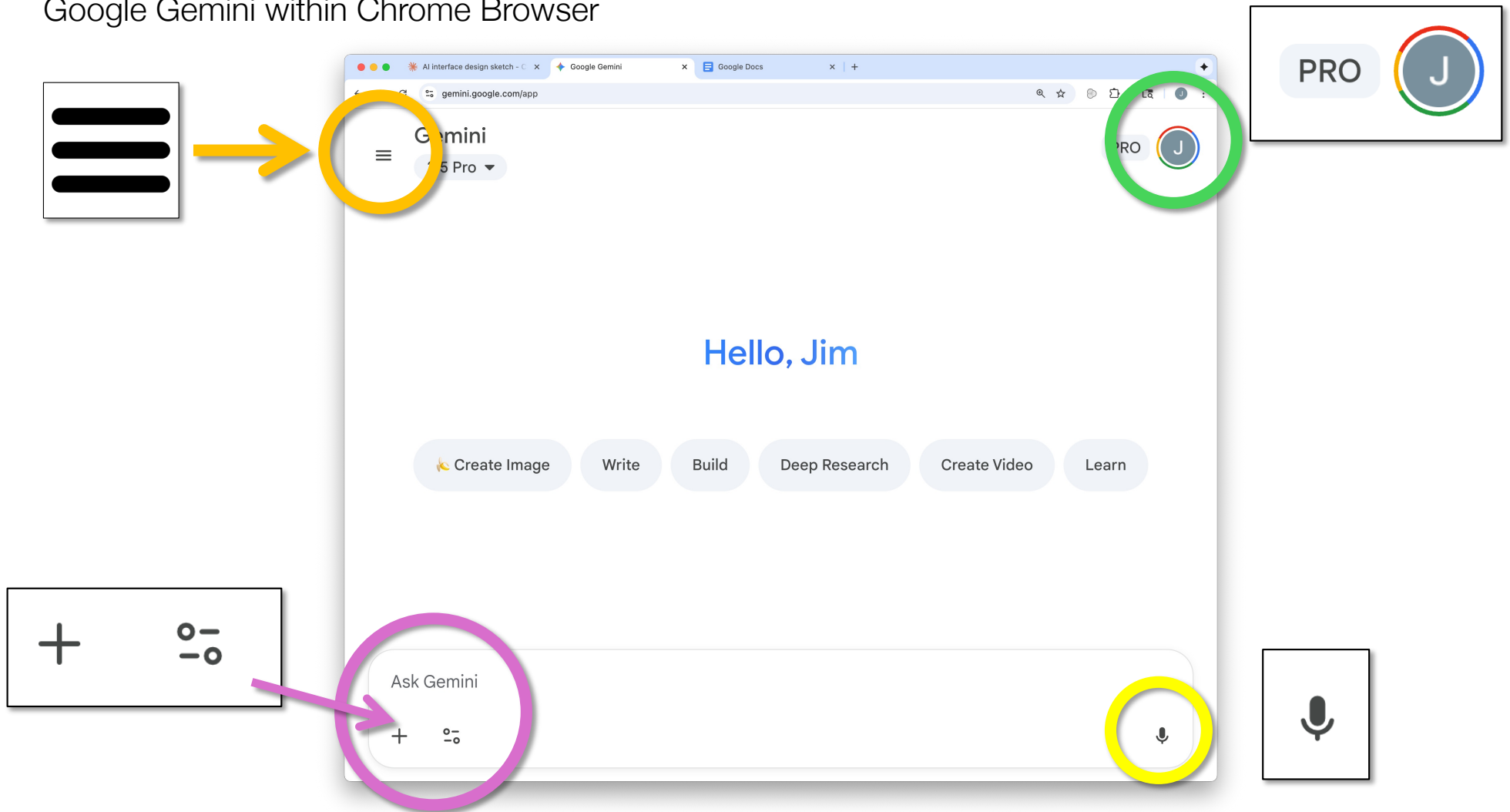
MAIN CONTENT AREA

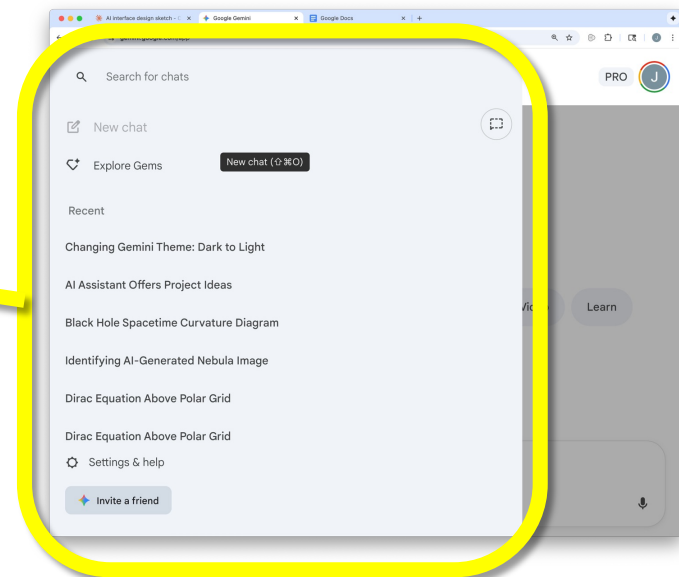
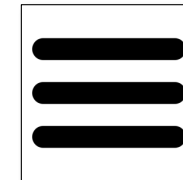
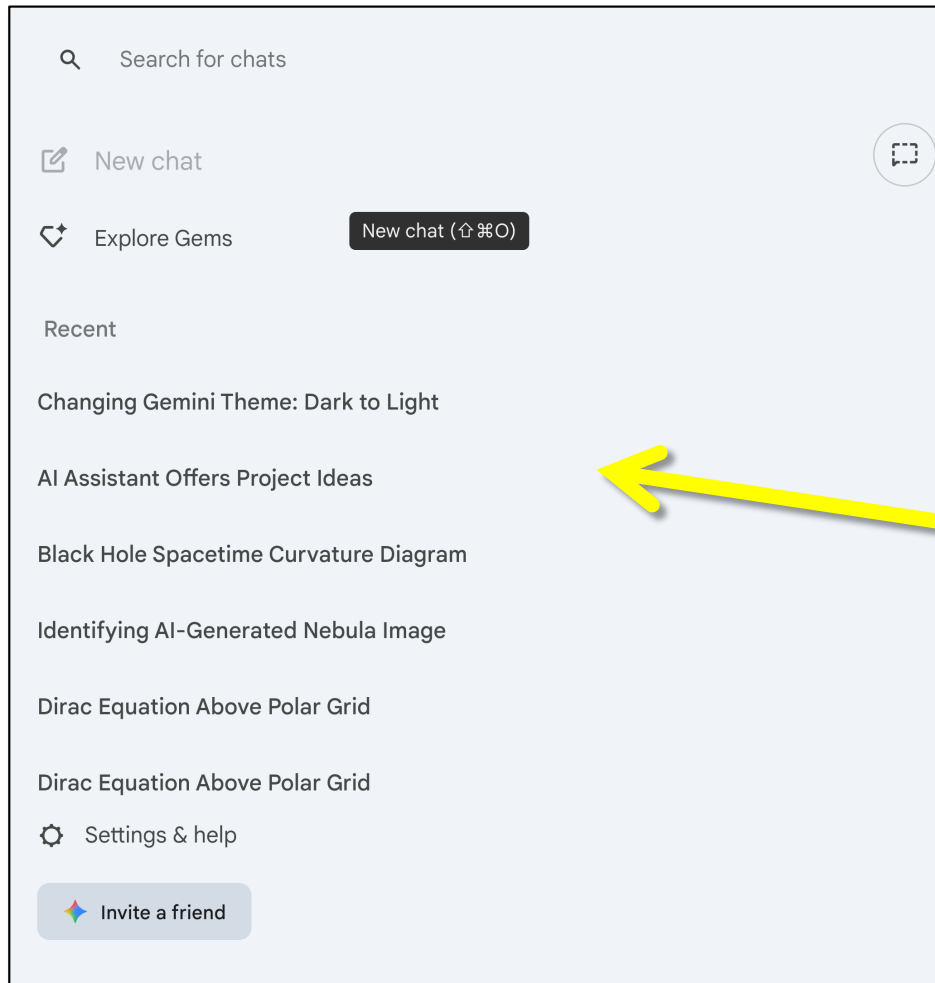
Enter your prompt here...

SEND



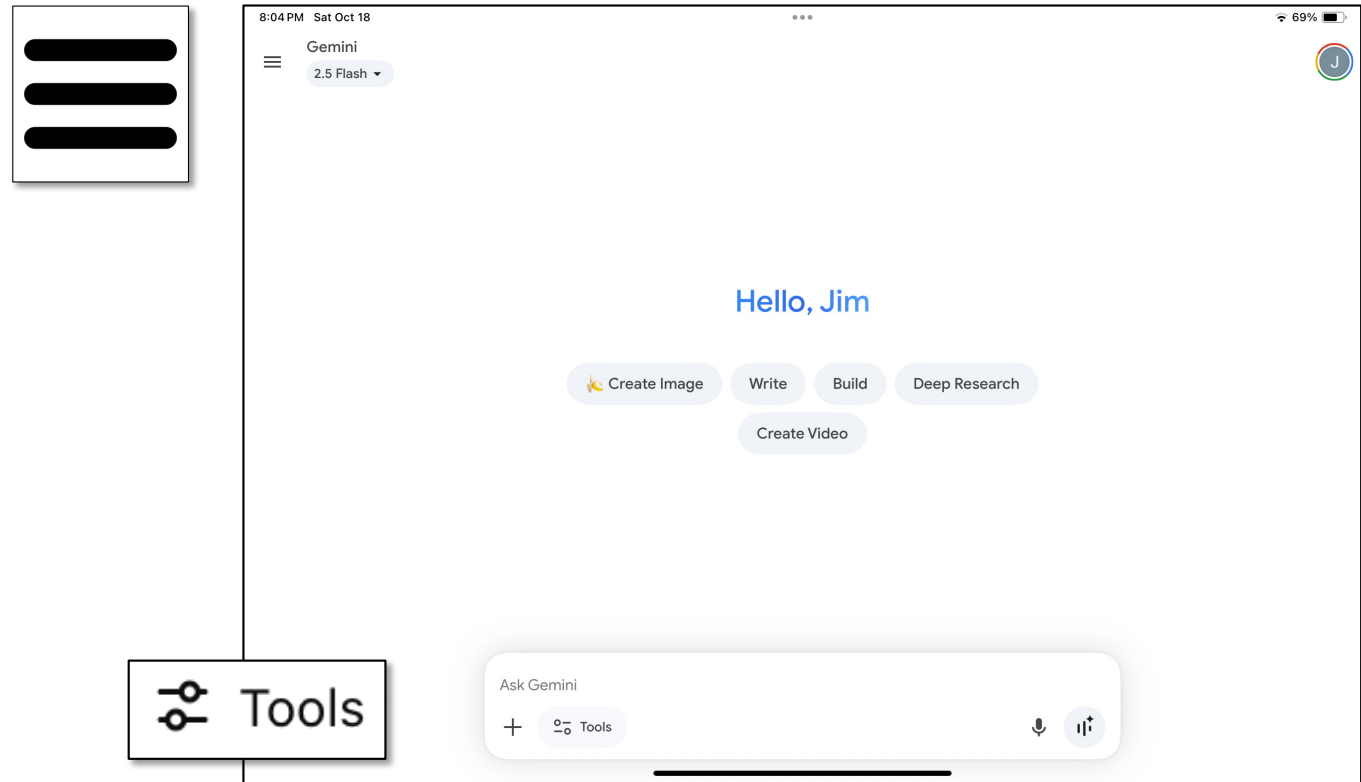
Google Gemini within Chrome Browser

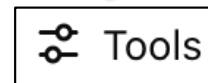
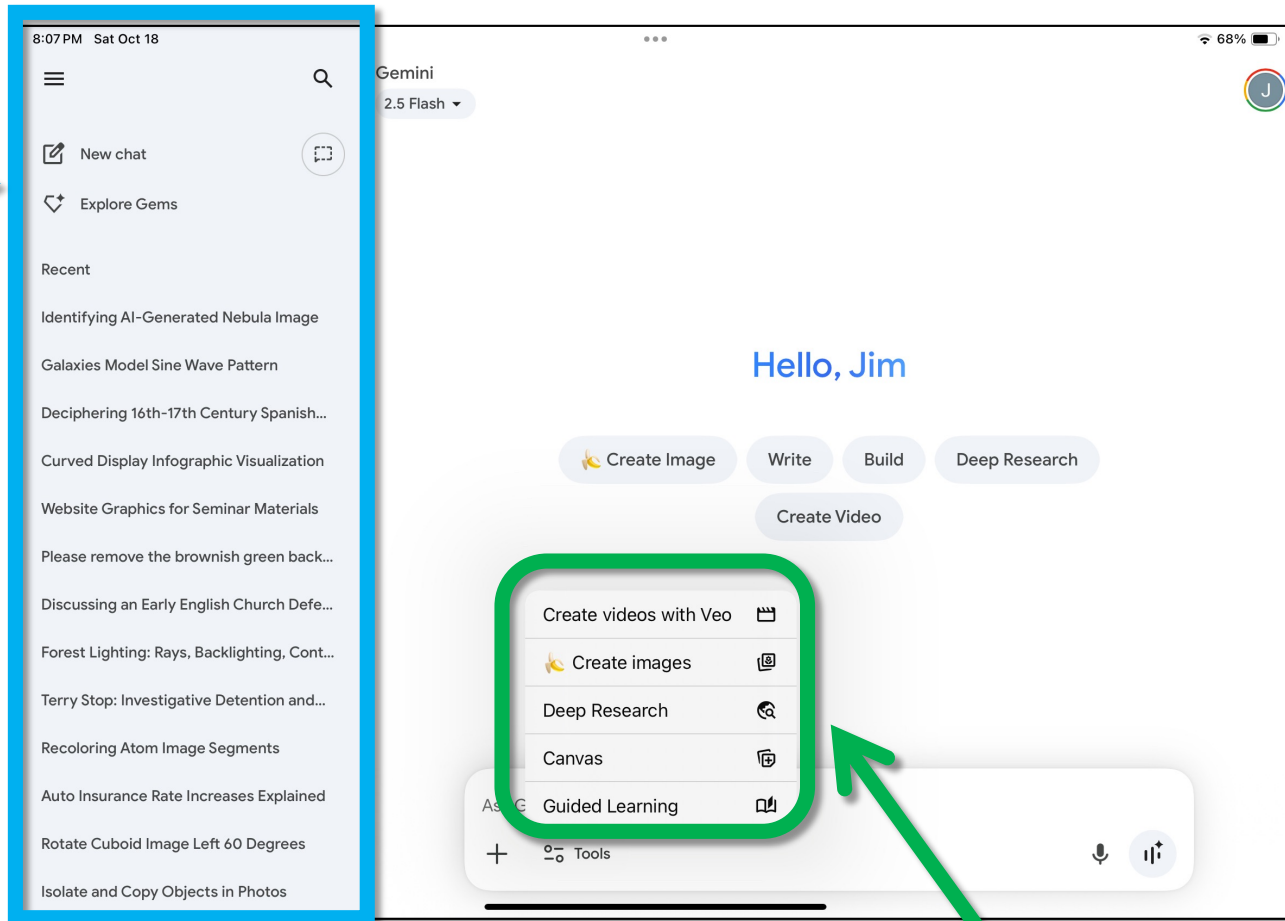
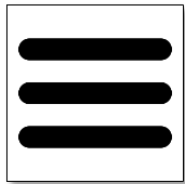




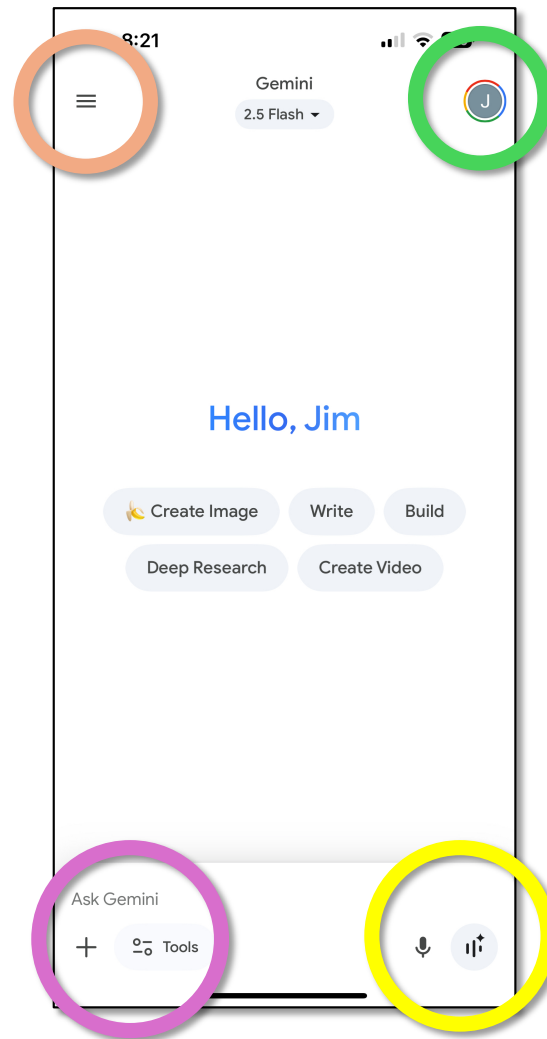


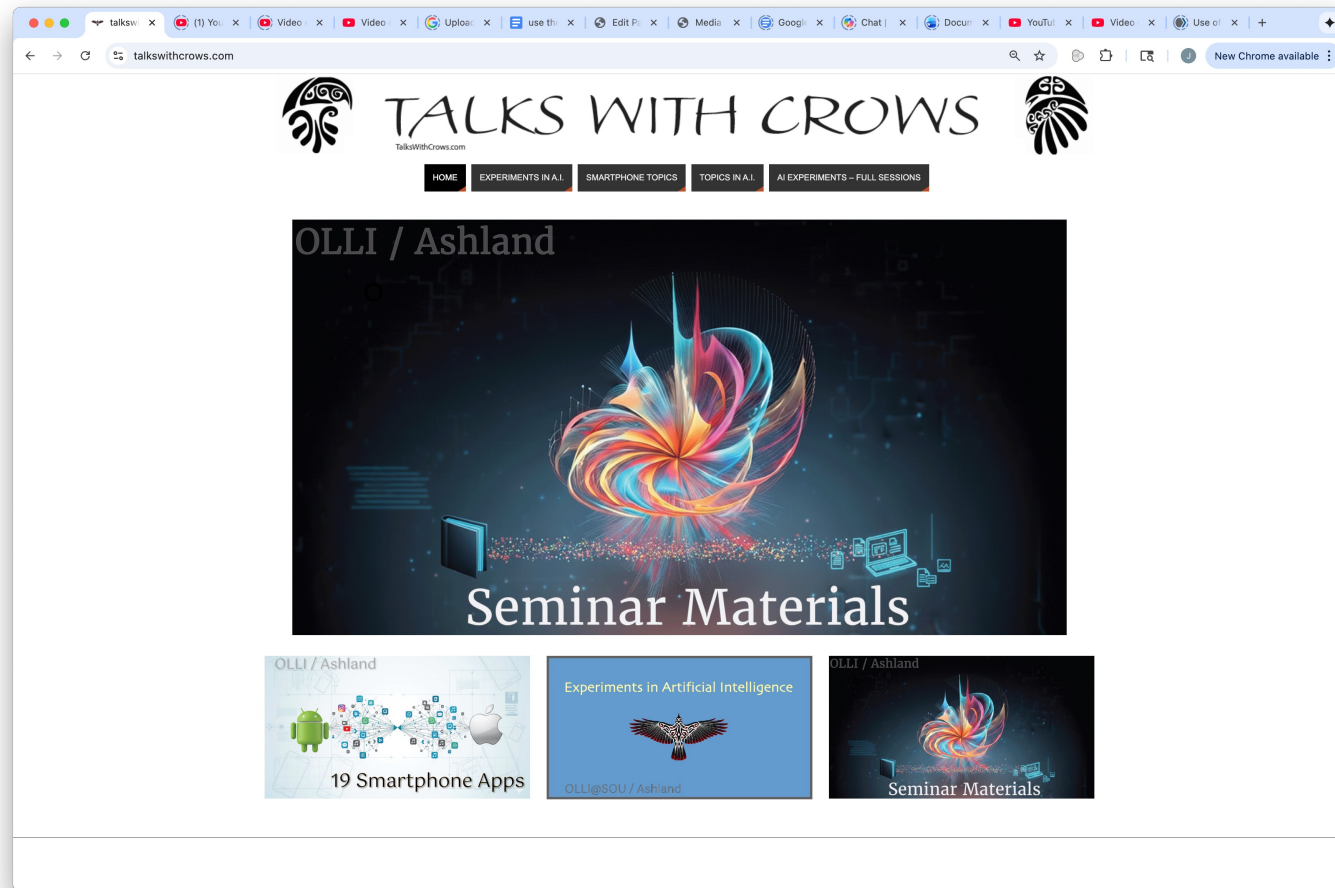
Google Gemini on Apple iPad





Gemini on iPhone







Google Docs

“Help Me Write”

<https://support.google.com/docs/answer/13447104?hl=en>

<https://www.tomsguide.com/ai/google-gemini/google-gemini-everything-you-need-to-know>





Google Labs

“Trusted Tester Program”

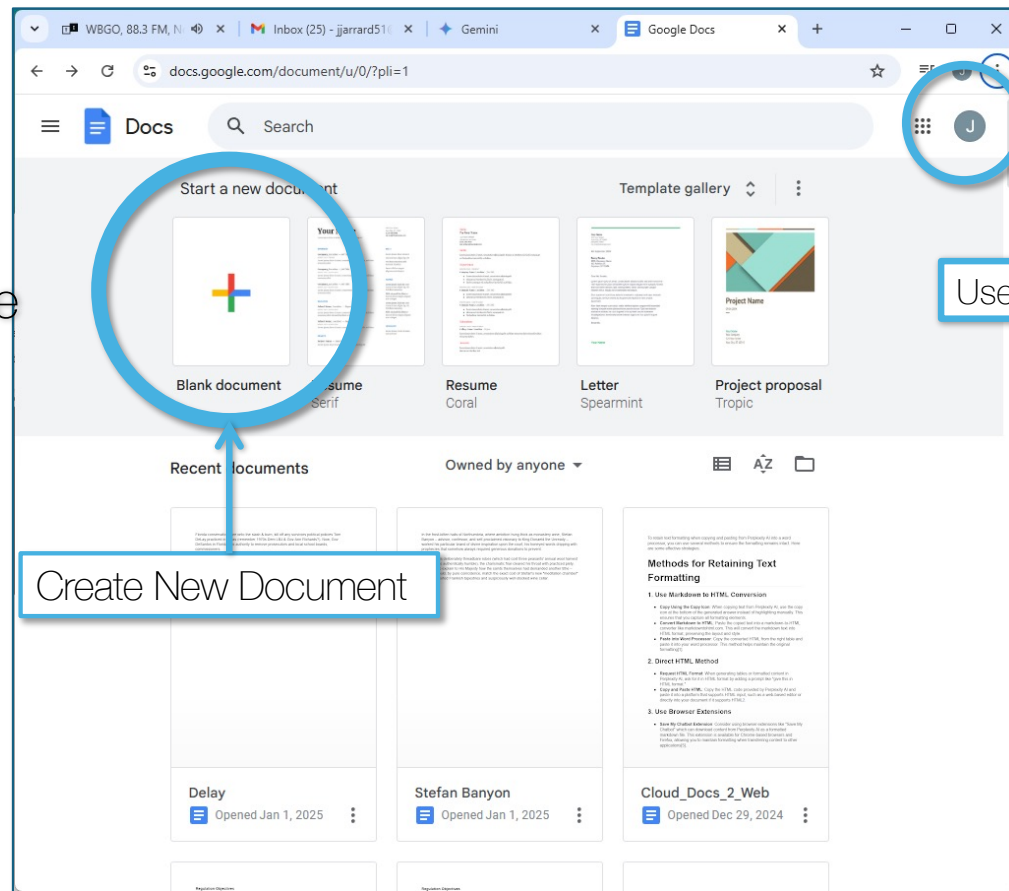
Potential for Free “Help Me Write” / Otherwise \$20/mo.





docs.google.com

The Google suite of software products (docs, gmail, slides) are used extensively by small and virtual organizations



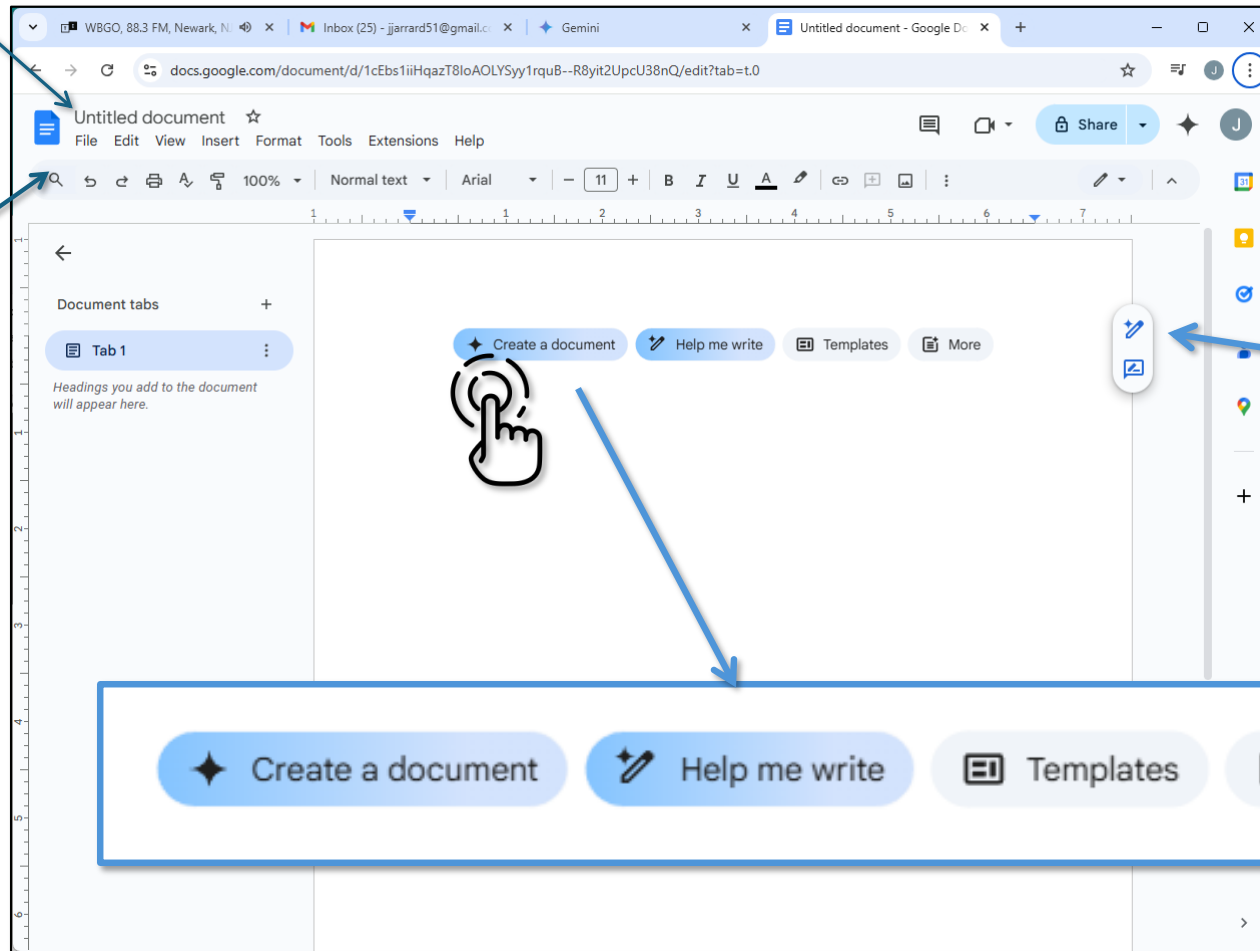


Document Title & Filename

Word Processing Menus

Slide #11 details items & actions within menus

"Help me write" icon





The Prompt Entry Box appears after selecting the “Help me write” button

The screenshot displays the Gemini AI interface. At the top, it says "Gemini" and "Hello, Jim Let's start creating". Below this is a "Prompt Entry Box" with the placeholder text "Describe the document you want to create. Type @ to include content from your files." and a "Create" button. Below the prompt entry box are three template cards: "Employee onboarding guide that highlights employee perks", "Template for a 15 minute daily standup meeting with 8 people", and "Roadmap for an AI-powered coffee machine with strategy...". A green box highlights the "Prompt Entry Box" and the "Action Button" (a blue "Create" button). A green arrow points from the "Prompt Entry Box" to the "Action Button".

Prompt Entry Box

Action Button





After repeated use in Google Docs or Gmail the **Prompt Entry Box** may appear differently

✎ Help me write



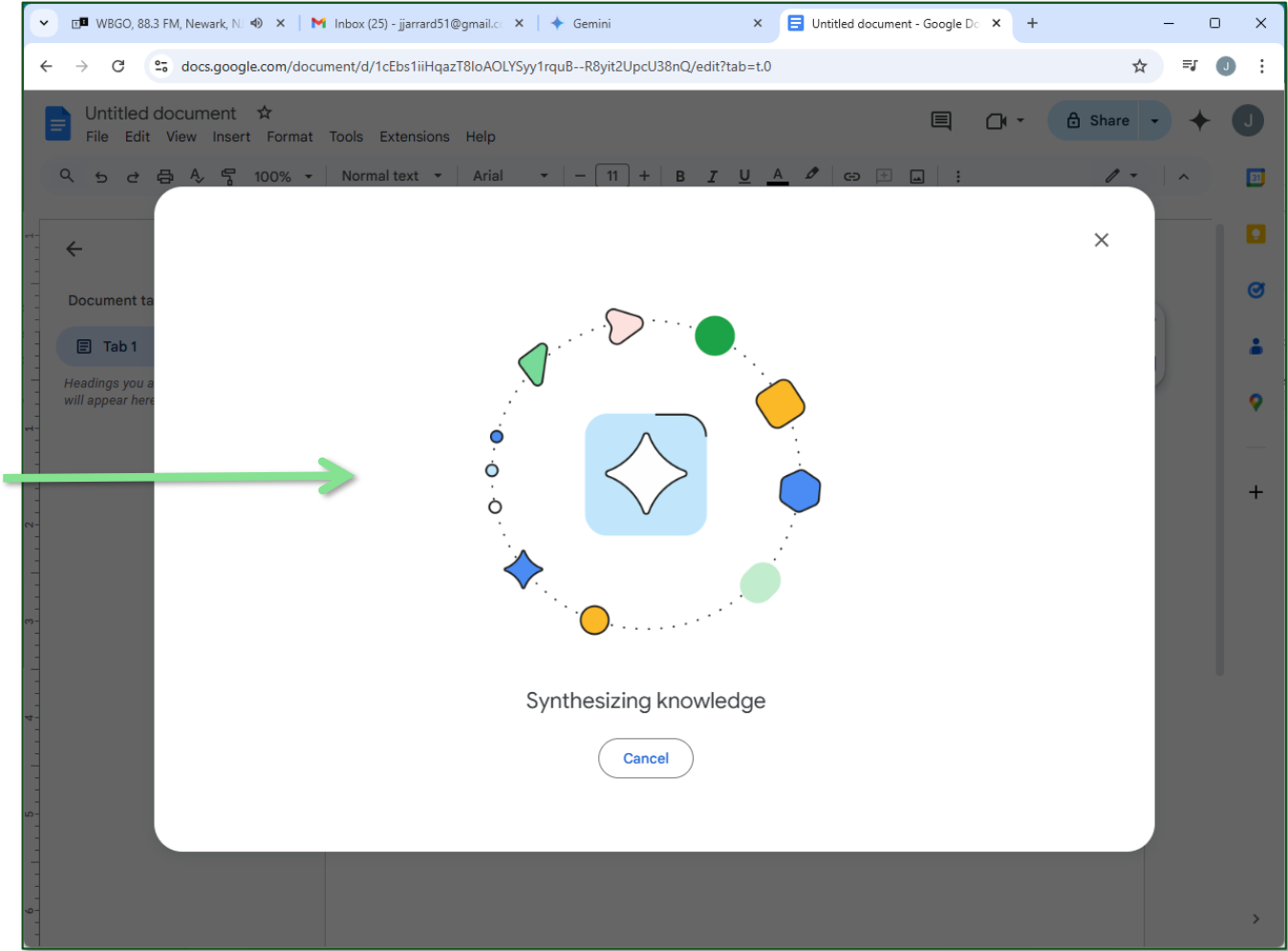
Recipe for beef wellington

Create





Processing Indicator





A Completed Text Generation

File Directory Navigation

Additional Google Apps & Info

Additional Document Assembly Assistance (add imagery)

'Share' document for group editing and modifications

Notice the many icons and action prompts on this screen

Proposal for Strategic Planning in AI for Adult Education

Introduction

Our response to your request for consulting on strategic planning in the use of artificial intelligence (AI) in education for adult learners, we present this proposal outlining our approach, expertise, and proposed deliverables.

Understanding the Need

The integration of AI into adult education presents a transformative opportunity to enhance learning outcomes, personalize experiences, and expand access to education. However, successful implementation requires strategic planning that aligns AI capabilities with the unique needs and challenges of adult learners.

Our Approach

Our approach to strategic planning in AI for adult education is grounded in research-based best practices and a deep understanding of the adult learning context. We emphasize a collaborative and iterative process that involves stakeholders at all levels, ensuring that the resulting strategy is both effective and sustainable.

Did this draft document help you get started?

Google Apps & Info

Feedback, aka Back Propagation





Close Sidebar

Outline of Document



←

Document tabs

Tab 1

Proposal for Strategic Pl...

Introduction

Understanding the Need

Our Approach

Expertise

Proposed Deliverables

Timeline

Conclusion

Proposal for Strategic Planning in AI for Adult Education

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Our Approach

Our approach to strategic planning in AI for adult education

Create a cover image

Describe your idea.
e.g., an object in a location in color

Learn more

Inspiration

A top-down view of an artist working at their desk, surrounded by brushes, palettes, and half-finished canvases, a colorful mess of inspiration

Did this draft document help you get started?

The Process of Creating Document "Cover Image"





Young people can navigate the myriad icons as seen on the previous screens.

They can isolate out what might be distractions to more mature learners

A Finished Document

The screenshot shows a Google Docs interface in a web browser. The document title is "Proposal for Strategic Planning in AI for Adult Education". The left sidebar shows a table of contents with sections: Introduction, Understanding the Need, Our Approach, Expertise, Proposed Deliverables, Timeline, and Conclusion. The main content area displays the "Introduction" and "Understanding the Need" sections. The "Introduction" section states: "In response to your request for consulting on strategic planning in the use of artificial intelligence (AI) in education for adult learners, we present this proposal outlining our approach, expertise, and proposed deliverables." The "Understanding the Need" section states: "The integration of AI into adult education presents a transformative opportunity to enhance learning outcomes, personalize experiences, and expand access to education. However, successful implementation requires strategic planning that aligns AI capabilities with the unique needs and challenges of adult learners." The "Our Approach" section is partially visible, stating: "Our approach to strategic planning in AI for adult education is grounded in research-based best practices and a deep understanding of the adult learning context. We emphasize a collaborative and iterative process that involves stakeholders at all levels, ensuring that the resulting strategy is both effective and sustainable." A notification bar at the bottom asks "Did this draft document help you get started?" with thumbs up/down and close icons.

Proposal for Strategic Planning in AI for Adult Education

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A “Downloaded” Document – Opened – Viewed in Two-Page Format

WBGO, 88.3 FM, Newark, NJ | Inbox (25) - jjarrard51@gmail.com | Gemini | Proposal for Strategic Planning | Proposal for Strategic Planning

File C:/Users/jjarr/Downloads/Proposal%20for%20Strategic%20Planning%20in%20AI%20for%20Adult%20Education.pdf

Proposal for Strategic Planning in AI for Adult Education

1 / 2 | 100% | [Icons]

Proposal for Strategic Planning in AI for Adult Education

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Expertise

Our team comprises experts in adult education, instructional design, educational technology, and AI. We have a proven track record of success in developing and implementing innovative educational solutions that leverage technology to enhance learning.

Proposed Deliverables

- Needs Assessment:** We will conduct a comprehensive needs assessment to identify the specific challenges and opportunities for AI integration in

your adult education context. This will involve gathering data from learners, instructors, administrators, and other stakeholders.

- Strategic Plan:** Based on the needs assessment, we will develop a strategic plan that outlines clear goals, objectives, and action steps for AI implementation. The plan will address issues such as technology infrastructure, faculty development, curriculum design, and learner support.
- Implementation Roadmap:** We will create an implementation roadmap that details the timeline, resources, and responsibilities for each phase of the AI integration process.
- Evaluation Framework:** We will develop an evaluation framework to measure the effectiveness of the AI implementation and identify areas for improvement.

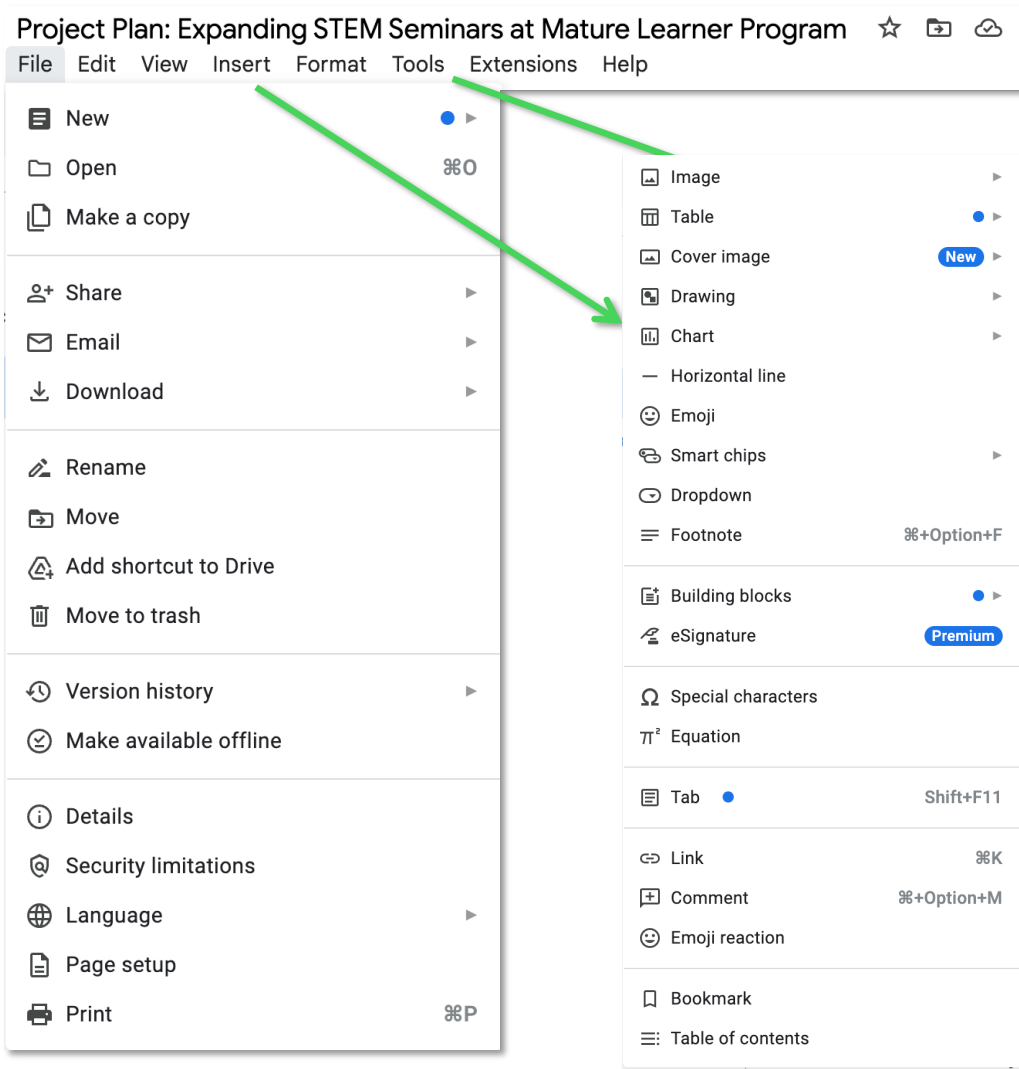
Timeline

The proposed project timeline is estimated at six months, with specific milestones to be determined based on your organization's needs and priorities.

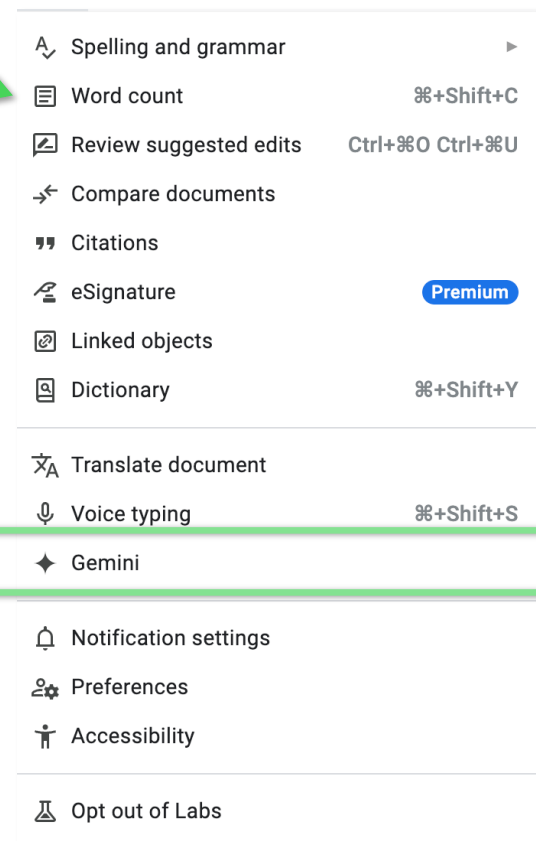
Conclusion

We are confident that our expertise and proposed approach will provide you with a comprehensive and actionable strategic plan for integrating AI into your adult education programs. We look forward to the opportunity to partner with you in this exciting endeavor.





Additional Google “Docs” Menu Items





Gmail

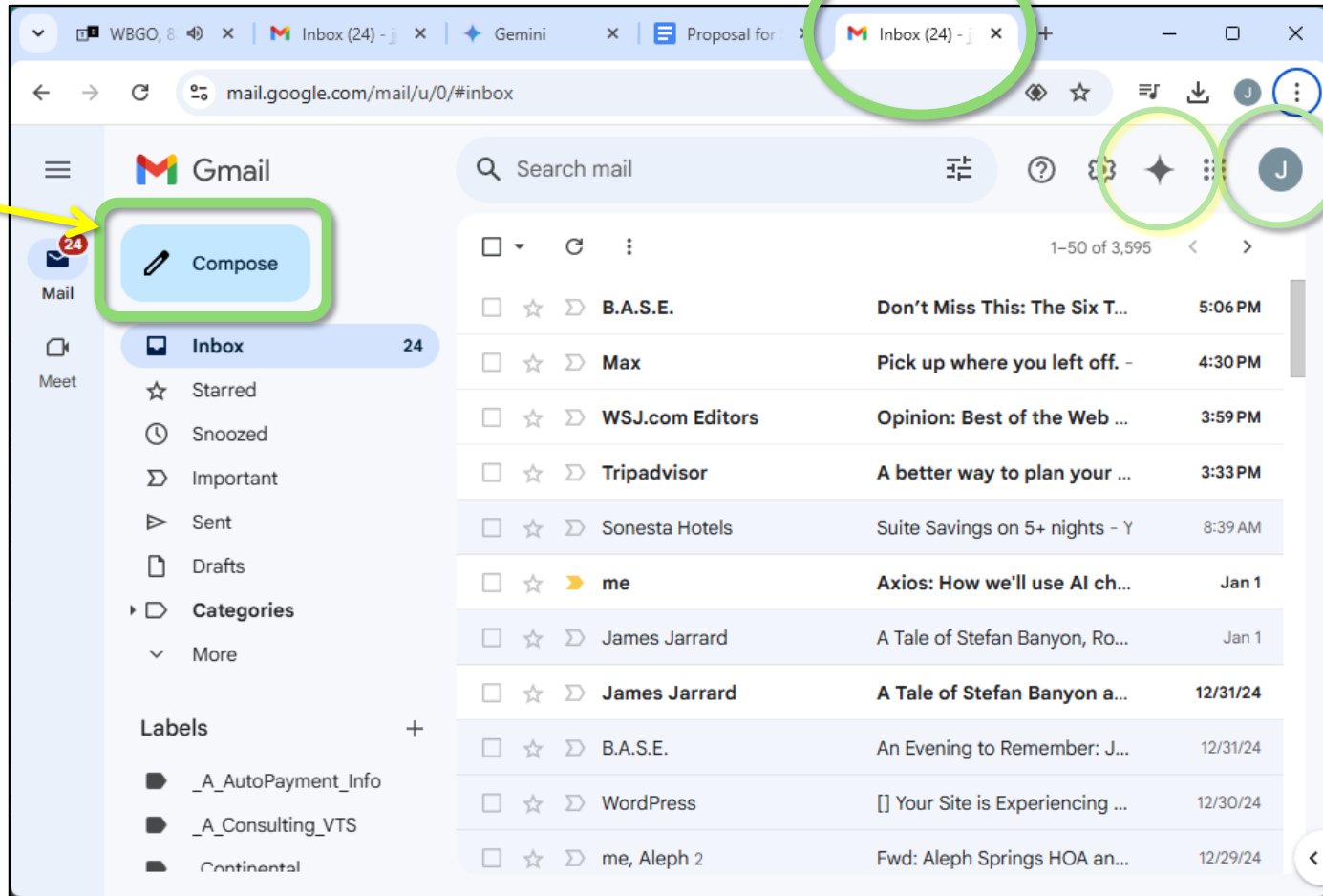
“Help Me Write”





Standard Gmail Screen (in a browser)

Compose a
New Message

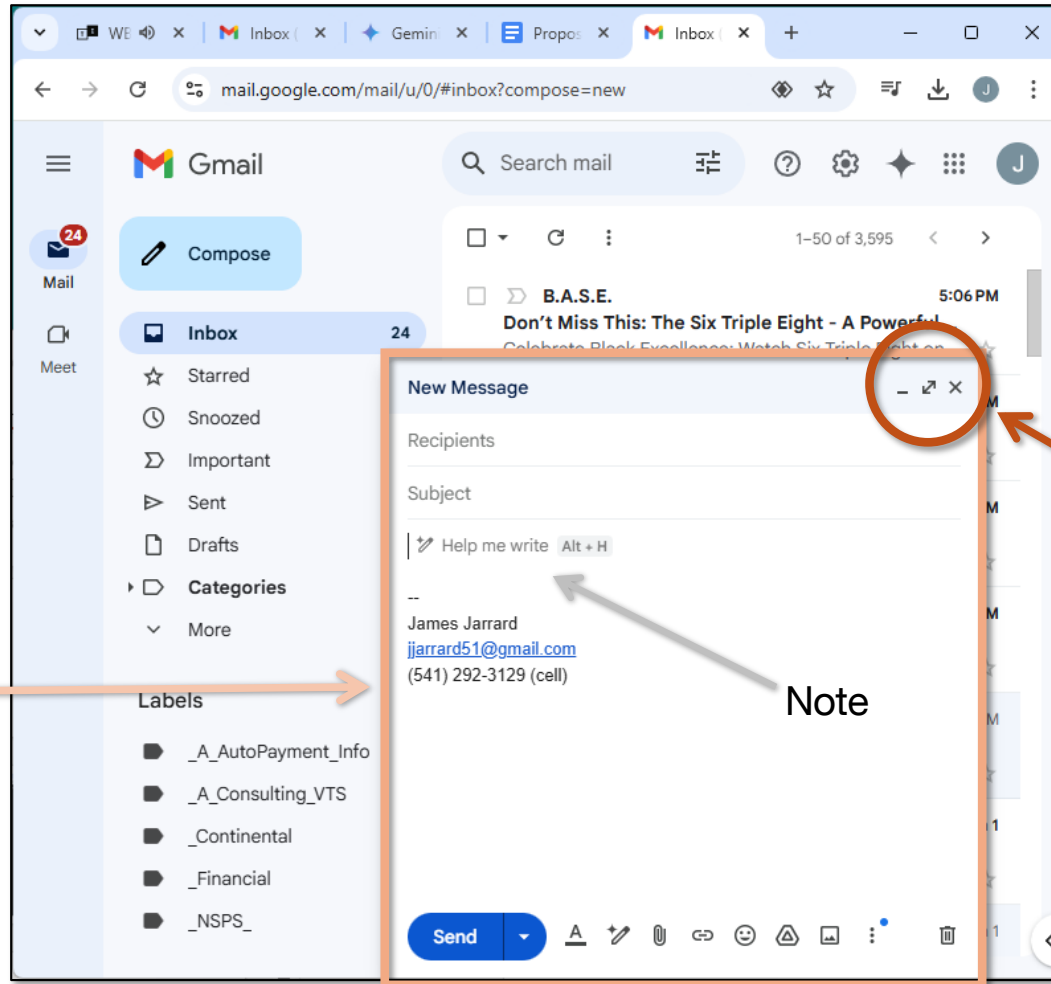


User
Authentication





When selecting
'Compose' in Gmail a
small window opens in
lower right of browser.



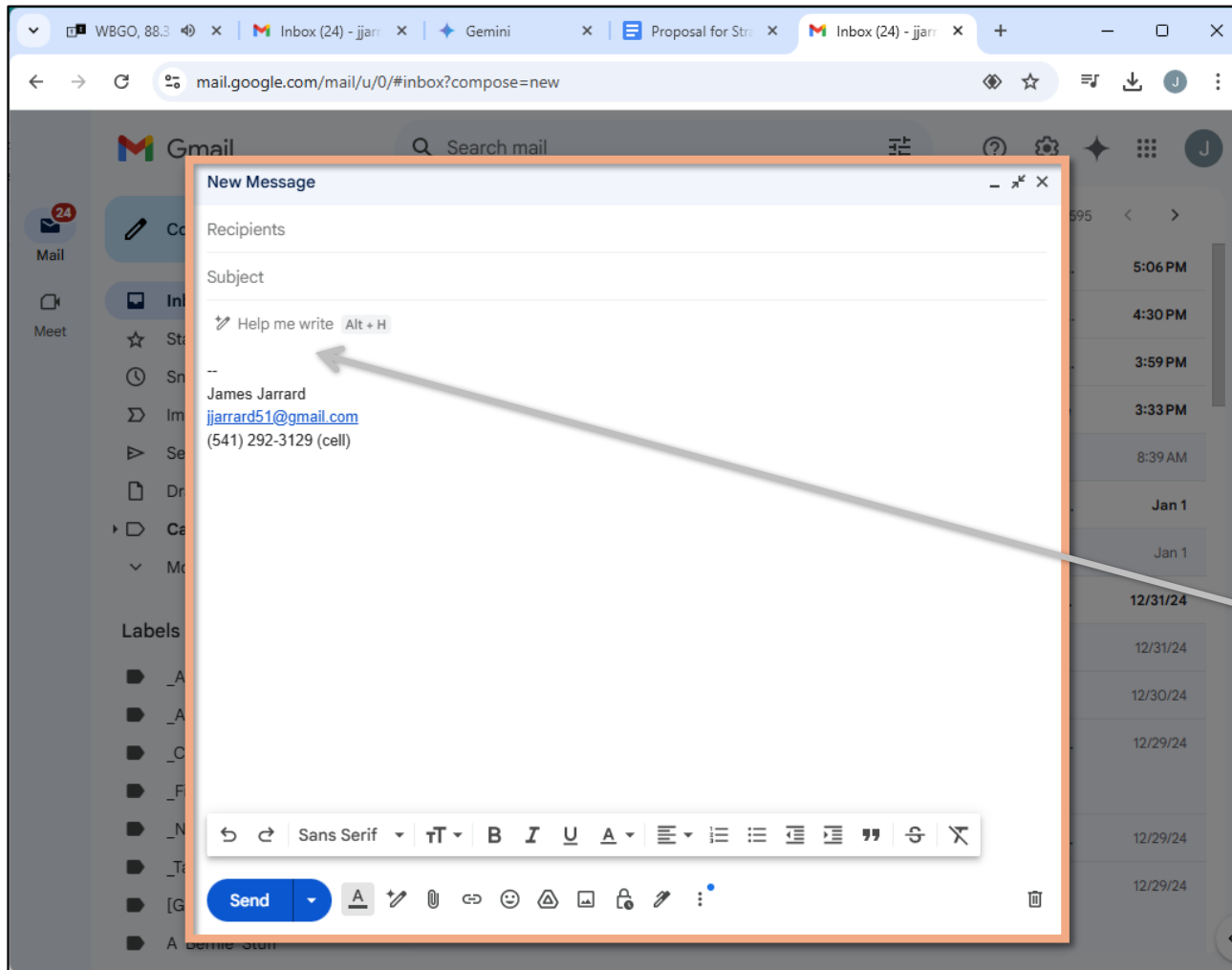
It is possible to enlarge the
'Compose' window

Note





Large 'Compose' Window



Note





Isolated 'Compose' Window

New Message

Recipients

Subject

--
James Jarrard
jjarrard51@gmail.com
(541) 292-3129 (cell)

Prompt Entry Box

A glowing review for my team member

Cancel

Create





New Message

Recipients

Subject

--
James Jarrard
jjarrard51@gmail.com
(541) 292-3129 (cell)

Prompt Entry Box (with Prompt)

Please compose an email as if you're a master negotiator and are submitting a proposal for consulting. The email is to Mark Olsen the principle in requesting training for his division staff in the use of artificial intelligence. you are interested in learning about the process of awarding the consulting contract but you don't want to let Mark know how interested you are.



Cancel

Create





Generation in Progress



New Message

Recipients

Subject

James Jarrard

Recreate Elaborate Cancel Creating...

New Message

A.I. Provided 'Inference'

Please assume you're a master negotiator looking to win a consulting contract for tr...

Mr. Olsen,

this email finds you well.

aching out to express my keen interest in the potential consulting opportunity to provide AI
g for your 75 employees. With my extensive experience in AI integration and workplace
g, I'm confident I can deliver a program that significantly enhances their productivity and
ncy.

I'm particularly interested in understanding your vision for how AI can best support your team's
day-to-day work. By aligning the training with your specific goals and challenges, we can ensure
maximum impact and return on investment.

Recreate Refine Insert

Action Items for Users





Redefine 'character'
of generated text



New Message

Recipients

Subject

✎ please assume you're a master negotiator looking to win a consulting contract for tr... ✕

Dear Mr. Olsen,

I trust this email finds you well.

I'm reaching out to express my keen interest in the potential consulting opportunity to provide AI training for your 75 employees. With my extensive experience in AI integration and workplace training, I'm confident I can deliver a program that significantly enhances their productivity and efficiency.

I'm particularly interested in how AI can best support your team's goals and challenges, we can ensure maximum impact.

Formalize
Elaborate
Shorten

Recreate Refine Insert



New Message

Recipients

Subject

please assume you're a master negotiator looking to win a consoling contract for tr...

Dear Mr. Olsen,

I am reaching out to express my strong interest in the potential consulting opportunity to provide AI training for your 75 employees. With my extensive experience in AI integration and workplace training, I am confident that I can deliver a program that will significantly enhance their productivity and efficiency.

I am particularly interested in understanding your vision for how AI can best support your team's daily work. By aligning the training with your specific goals and challenges, we can ensure maximum impact and return on investment.

I would be happy to schedule a brief introductory call at your earliest convenience. This would provide us with an opportunity to discuss your needs in more detail and explore how I can best

↺

Recreate

⋮

Elaborate

Insert

Once the generated text is acceptable to the user, the message must be inserted into the gmail message.





New Message

Recipients

Subject

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I would be happy to schedule a brief introductory call at your earliest convenience. This would provide us with an opportunity to discuss your needs in more detail and explore how I can best support your organization's AI journey.

Thank you for your time and consideration.

Best regards,
Jim

Send

A✎📎🔗😊🏠🖼️🔒✍️⋮

Text

It is **imperative** that all A.I. generated email messages be read, re-read, and edited before sending.

A.I. generated message often have unusual errors only corrected thru careful reading and editing.

Text Editing Functions





It is imperative that any text generated by an A.I. be read and re-read by a competent editor.

A.I.s make many mistakes often in areas where humans tend to overlook.

Please ensure that any text you generate with A.I. is read and modified appropriately.





Gmail

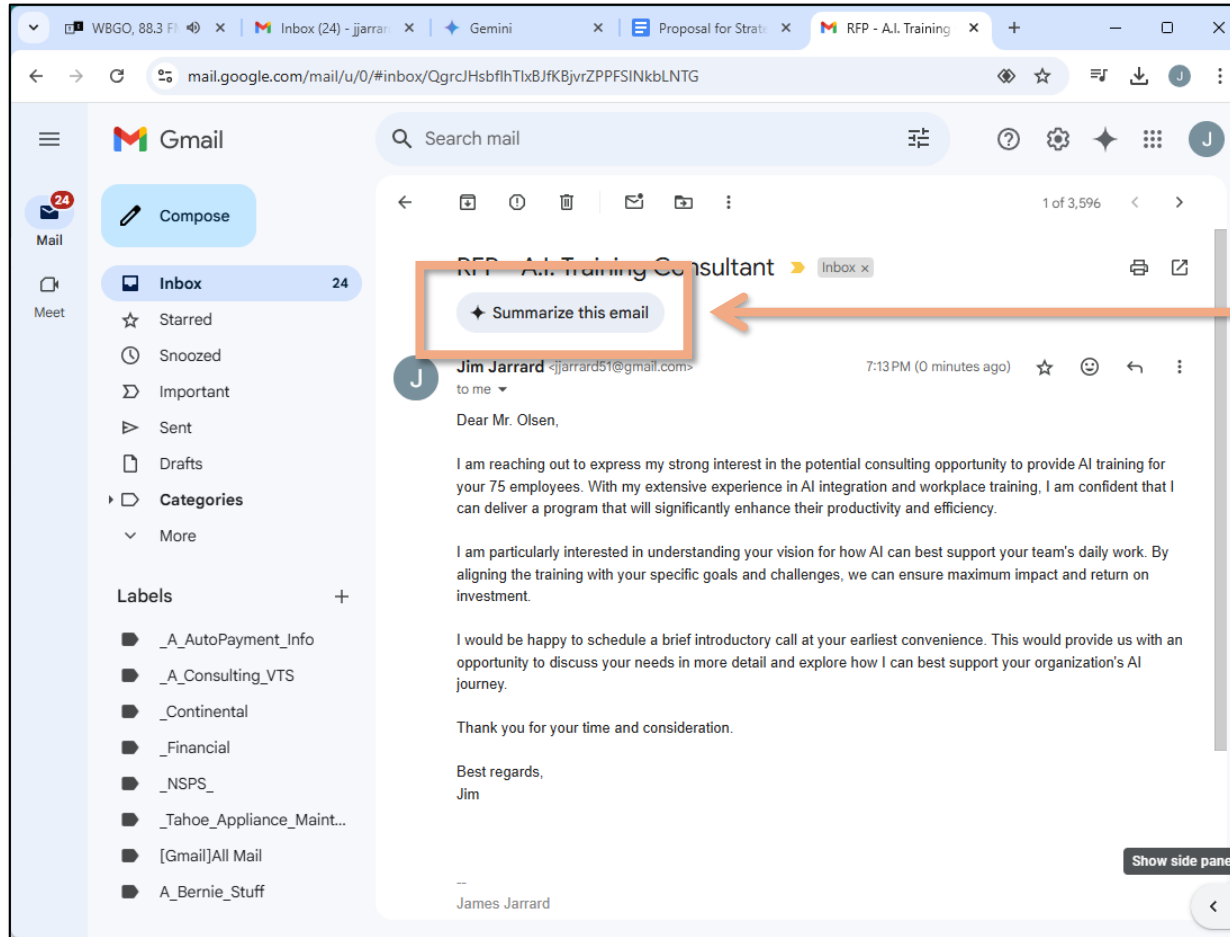
“Help Me Write”

Responding to an Email Message





An Email Message Received/Inbox



Summarize a Message.

Imagine this capability used by a 'knowledge worker' in a modern office. Picture the worker who must read and comprehend multiple lengthy email messages throughout a workday.





WBGO, 88.3 FM

Inbox (24) - jjarrar...

Gemini

Proposal for Strate...

RFP - A.I. Training

mail.google.com/mail/u/0/#inbox/QgrcJHsbflhTlxBJfKBjvrZPPFSINKbLNTG

Mail

24

Inbox

24

Starred

Snoozed

Important

Sent

Drafts

Categories

More

Labels

+

_A_AutoPayment_Info

_A_Consulting_VTS

_Continental

_Financial

NSPS

_Tahoe_Appliance_Maint...

[Gmail]All Mail

A_Bernie_Stuff

A_Caremark_Documenta...

Search mail

RFP - A.I. Training Consultant

Inbox x

Summarize this email

J

Jim Jarrard <jjarrar...>

7:13 PM (0 minutes ago)

to me

Dear Mr. Olsen,

I am reaching out to express my strong interest in the pote
opportunity to provide AI training for your 75 employees. V
extensive experience in AI integration and workplace traini
confident that I can deliver a program that will significantly
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I am particularly interested in understanding your vision fo
best support your team's daily work. By aligning the trainin
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on investment.

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convenience. This would provide us with an opportunity to
needs in more detail and explore how I can best support y
organization's AI journey.

Thank you for your time and consideration.

Best regards,

Gemini

Summarize this email

"RFP - A.I. Training Consultant" is about

- Jim Jarrard expresses interest in providing AI training for Mr. Olsen's 75 employees and requests an introductory call.

Sources (1)

Show me a longer summary

Show more suggestions

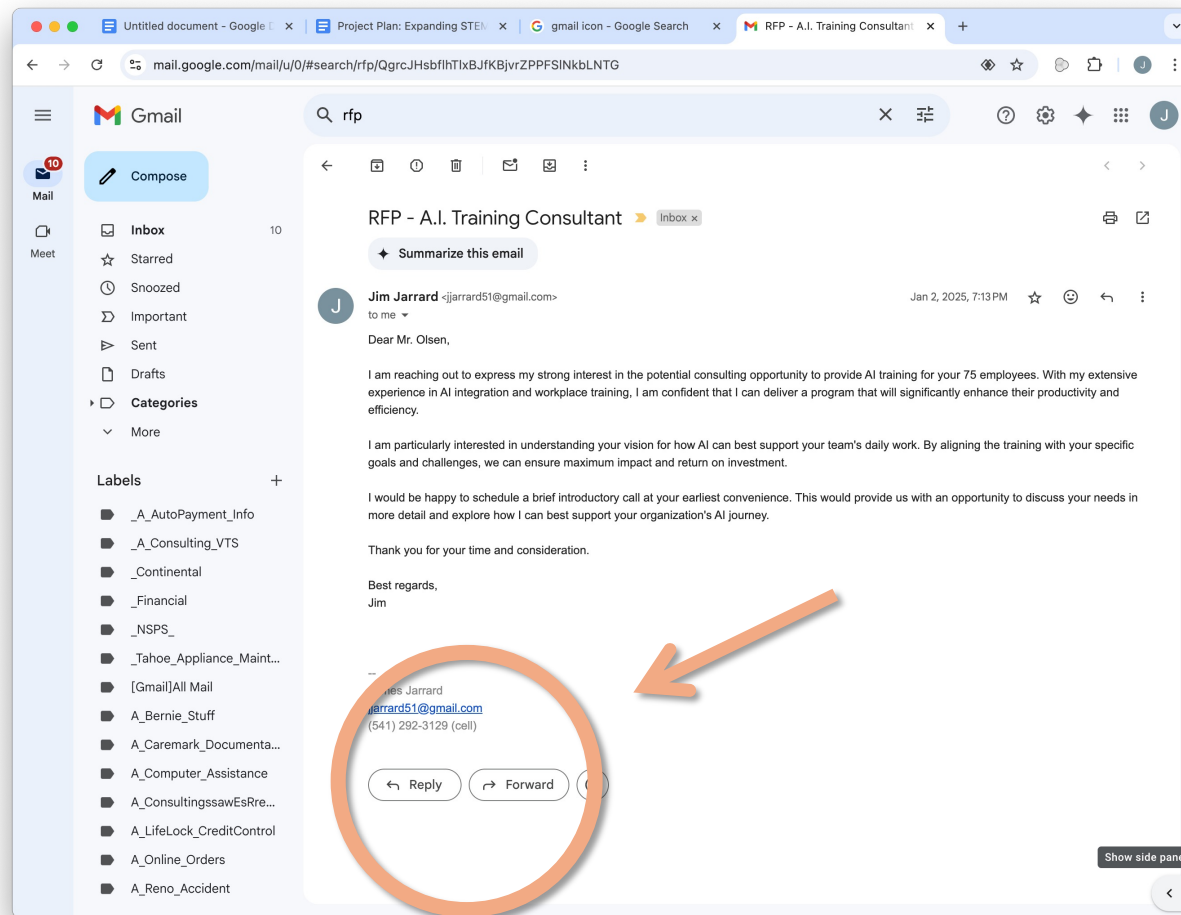
Enter a prompt here

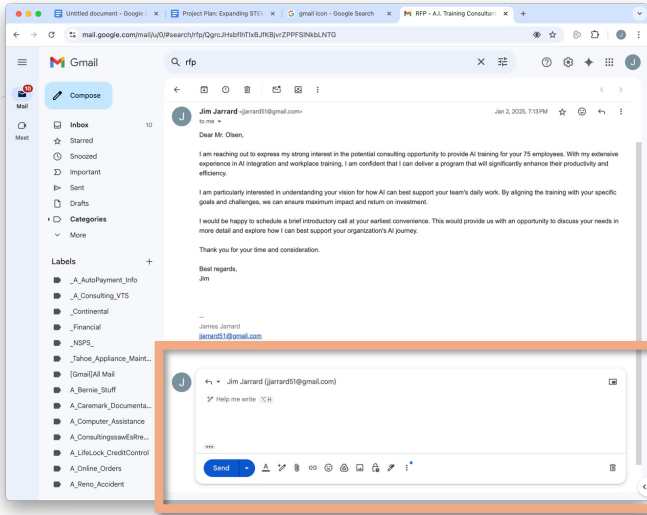
Gemini for Workspace can make mistakes, including about people, so double-check it. [Learn more](#)

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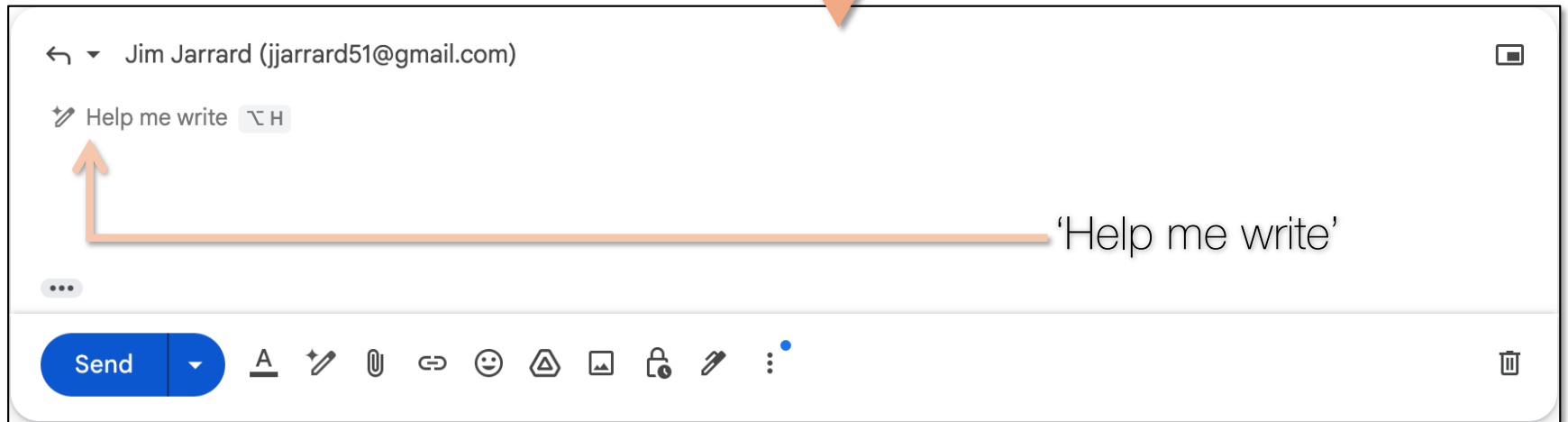
October 22, 2025

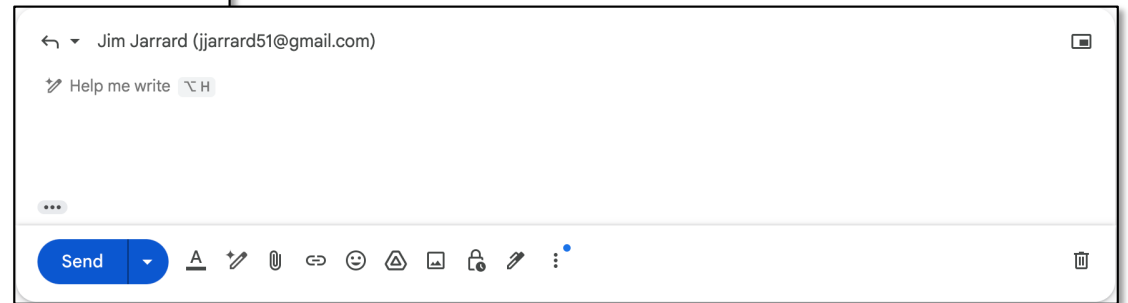
49



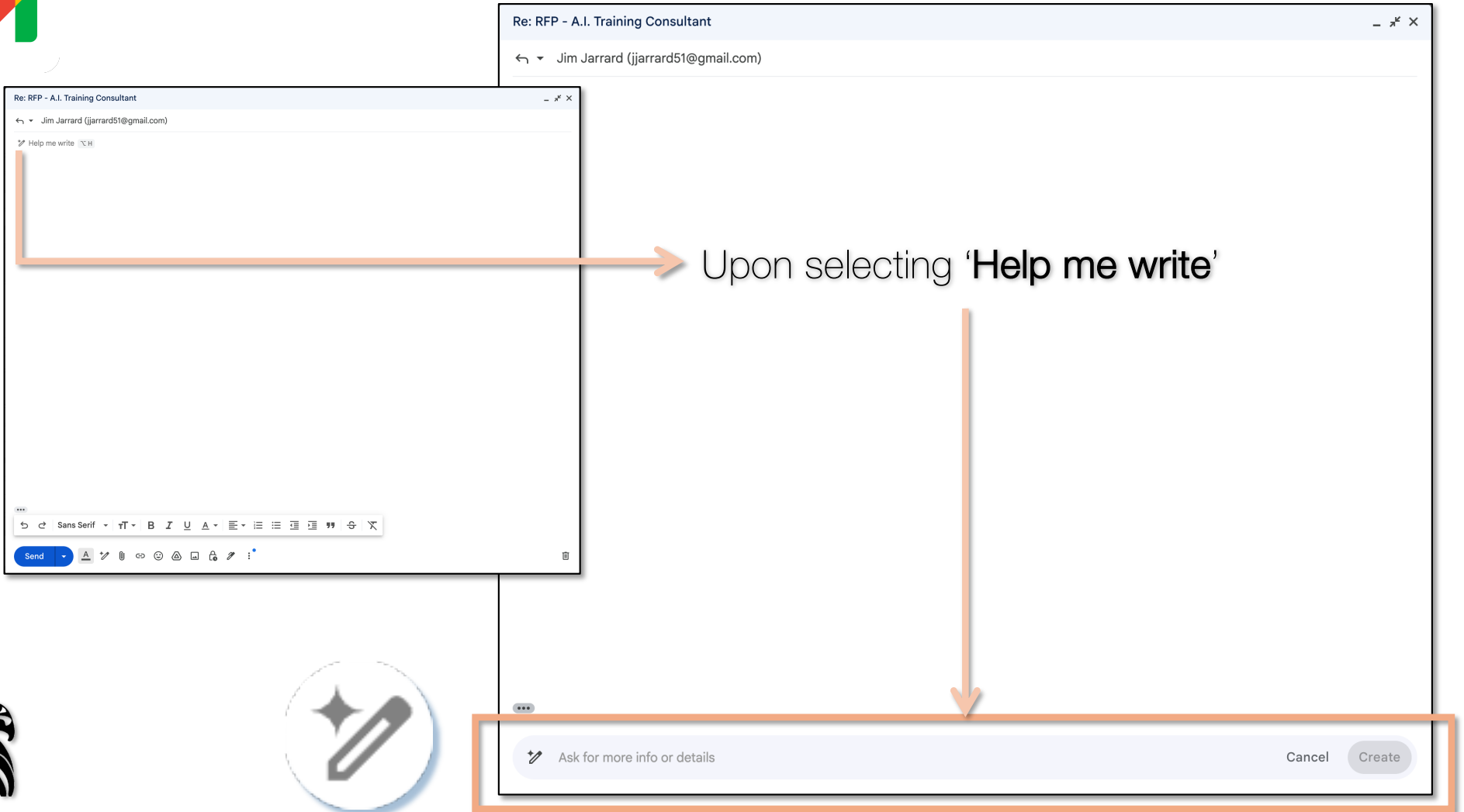


The **'Help me write'** function is available when responding to an email message.





©Talks with Crows



October 22, 2025



AI Interfaces: Beyond the Prompt



AI Interfaces: Beyond the Prompt

The Foundation (What We Have Today)

Comprehensive Memory: Chat history, saved prompts, and contextual memory.

Rich Multimodality: Understands and generates text, images, audio, and more.

Deep Integration: Works within our existing apps (email, documents, etc.).

Advanced Artifact Control: Edits images, extracts text, and formats output.

1. Agentic & Proactive Capabilities

Goal-Oriented Action: Give the AI a complex goal, not just a single prompt.

Workflow Automation: Let the AI manage multi-step tasks across different applications.

Anticipatory Assistance: The AI offers help before you even ask.

2. Deep Transparency & Explainability

"Show Your Work" Reasoning: Ask "Why?" on any response to see its logic.

Adjustable "Levers": A user-controlled slider for "Creativity vs. Factuality."

Bias & Assumption Disclosure: The AI states the potential biases influencing its answer.

3. Collaborative & Multi-User Features

Shared AI Sessions: A "Google Docs" experience for AI, where teams can prompt together.

AI as a Facilitator: A neutral moderator in a meeting that summarizes, tracks action items, and keeps discussion on topic.

4. Advanced Personalization & Privacy

Adaptive Learning: The AI learns your unique style over time, without explicit instructions.

On-Device Processing: An "Offline Mode" for speed and 100% privacy.

Editable Memory: Directly correct the AI's knowledge. ("My company's CEO is Jane, not John. Remember that.")

End