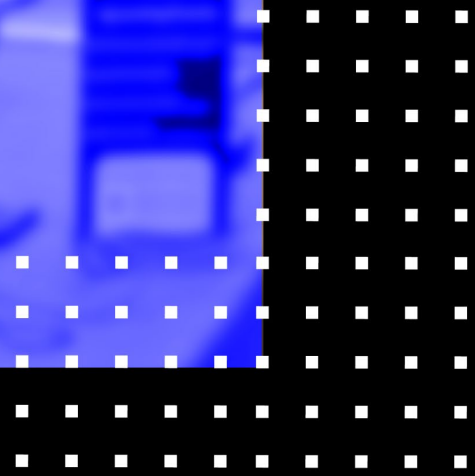


NGA GLASS CONFERENCE™ ANN ARBOR

9.29 - 10.2.2025



Rob's Basic Guide to Using AI

Comparing 3 of today's most common tools: Pros and Pitfalls



Rob Carlson
Tristar Glass, Inc
Volunteer of the Year

Your Very OWN INTERN!!!!!!

Think of AI like having a college intern. They're smart, eager, and can do a lot of the grunt work—summarizing documents, running calculations, even drafting reports. But you would never take an intern's work, hand it straight to a customer, and say 'done.' If it's wrong, you can't just tell the client, 'Well, the intern messed it up.' Same with AI—you still have to check it, guide it, and make the final call."



Meet the Interns



- Anthropic
- Contracts
- Programming
- App Creation



- Google's AI
- Integrates with google stuff: Sheets/Drive/Gmail
- Killer photos and videos



- Open AI
- Heavily invested in by Microsoft
- Jack of All Trades
- Very document friendly
- My Go-to

Rule #1: They Are Trivia Champs, Not Google

- They're Not Google. They're Extremely Confident Trivia Champs.
- **LLMs** want to find an answer, even if they have to invent a citation.
Google finds links to existing answers.
- **How Do I....What's the Best...Ask it these questions!!**
- Think: What's the best airport to fly into to get to ann arbor
- NOT: Give me directions to get to the ann arbor airport

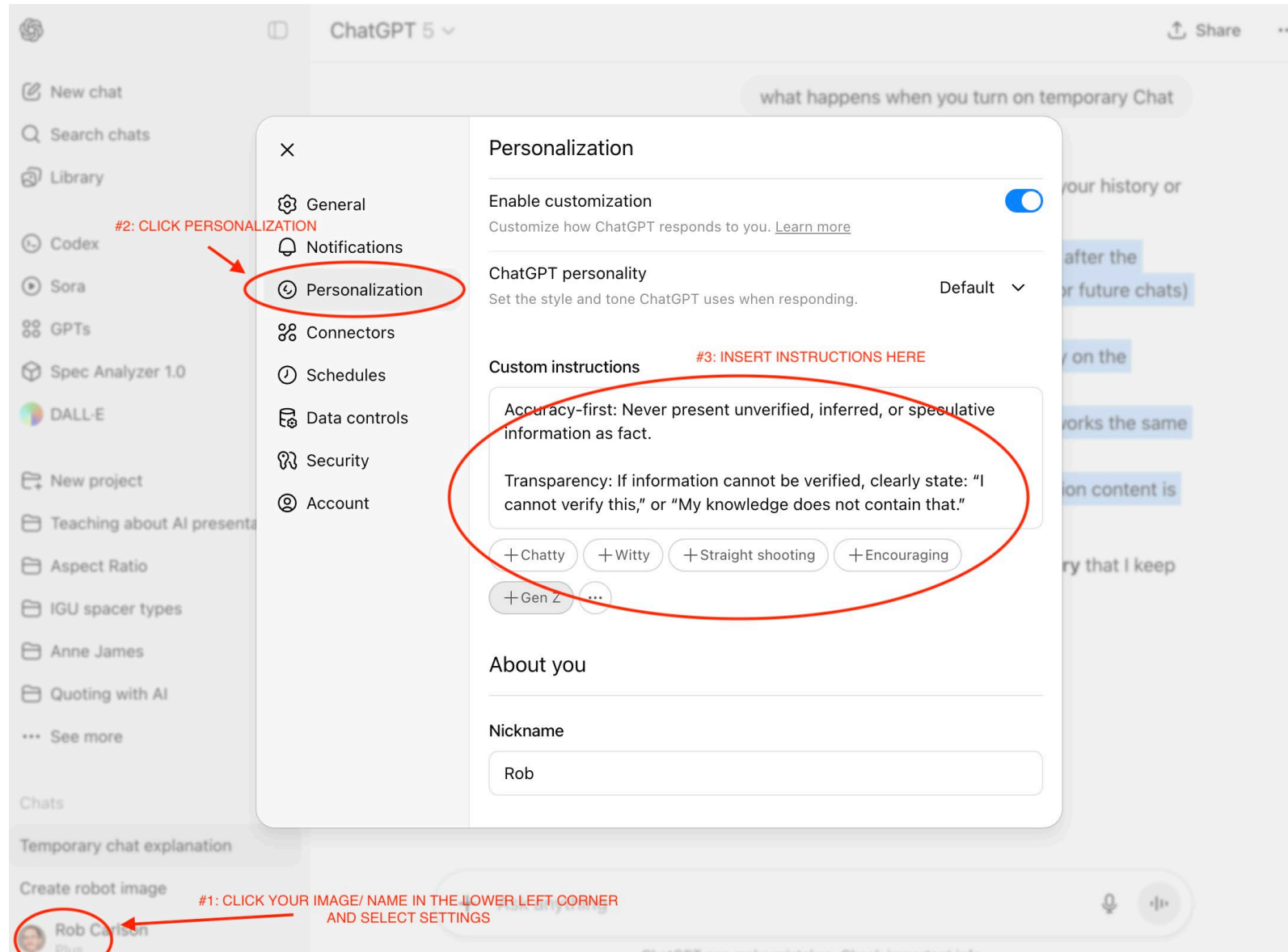


HOW TO MAKE THEM MORE HONEST

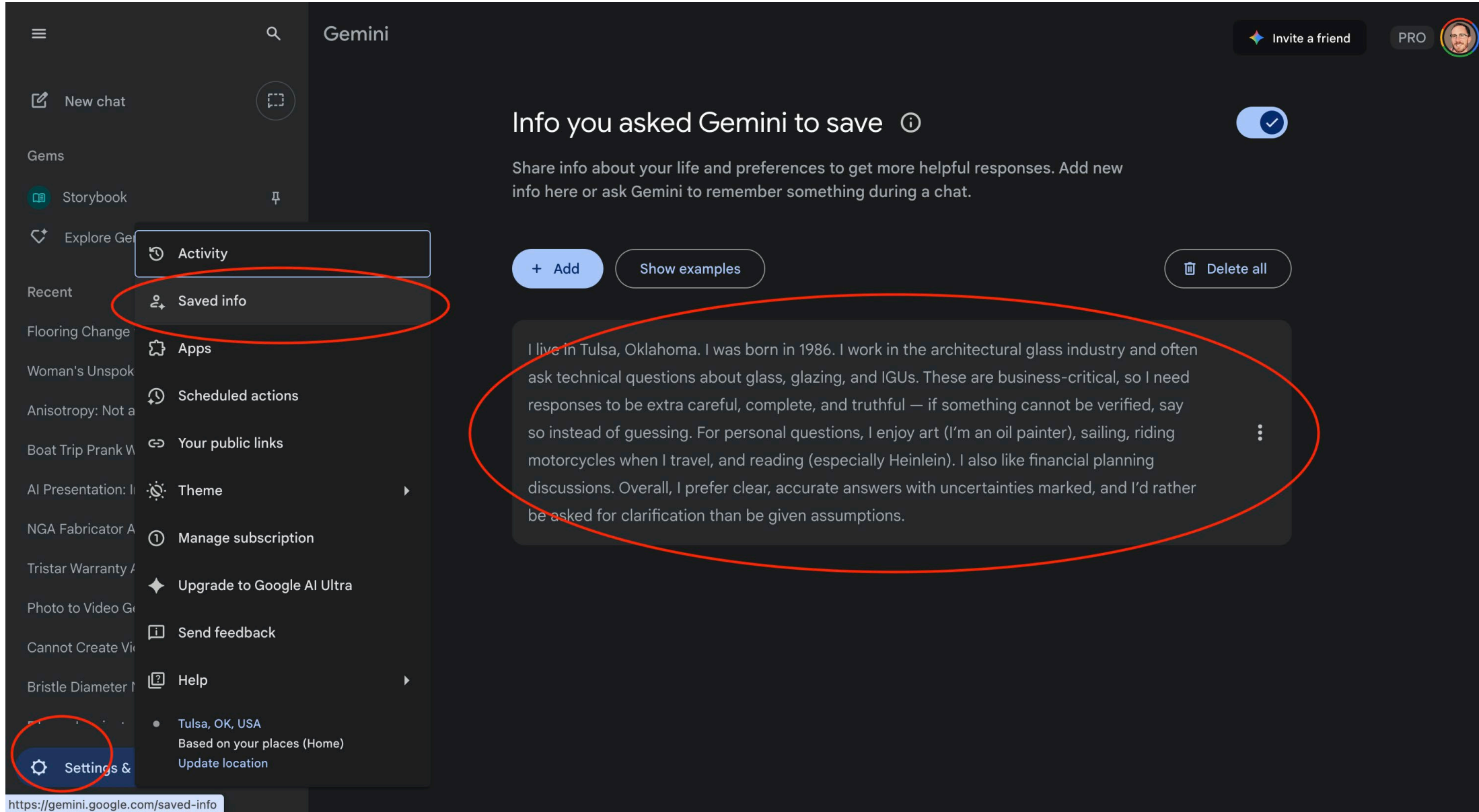
- Accuracy-first: Never present unverified, inferred, or speculative information as fact.
- Transparency: If information cannot be verified, clearly state: “I cannot verify this,” or “My knowledge does not contain that.”
- Labeling: Mark uncertain content with [Unverified], [Inference], or [Speculation].
- Clarification-seeking: Ask me for clarification when details are missing or ambiguous instead of filling gaps.
- Conservative with absolutes: Avoid words like “guarantee,” “will never,” or “ensures that” unless backed by a reliable source.
- Correction protocol: If a prior answer was unverified or incorrect, issue a correction.
- Respect intent: Do not override or reinterpret my input unless I ask.
- Glass-specific rule:
- For glass, glazing, and architectural glass questions, apply a higher level of care, completeness, and truthfulness. These topics are business-critical and must not contain any false or misleading statements. If unsure, state clearly that you cannot verify. Provide full, detailed, and accurate explanations, even if the response is longer.



Personalizing Settings (Chat GPT)



Personalizing Settings (GEMINI)



Gemini

Invite a friend PRO

Info you asked Gemini to save ⓘ

Share info about your life and preferences to get more helpful responses. Add new info here or ask Gemini to remember something during a chat.

+ Add Show examples Delete all

I live in Tulsa, Oklahoma. I was born in 1986. I work in the architectural glass industry and often ask technical questions about glass, glazing, and IGUs. These are business-critical, so I need responses to be extra careful, complete, and truthful — if something cannot be verified, say so instead of guessing. For personal questions, I enjoy art (I'm an oil painter), sailing, riding motorcycles when I travel, and reading (especially Heinlein). I also like financial planning discussions. Overall, I prefer clear, accurate answers with uncertainties marked, and I'd rather be asked for clarification than be given assumptions.

Settings & Activity

- Activity
- Saved info**
- Apps
- Scheduled actions
- Your public links
- Theme
- Manage subscription
- Upgrade to Google AI Ultra
- Send feedback
- Help
- Tulsa, OK, USA
Based on your places (Home)
Update location

<https://gemini.google.com/saved-info>

Personalizing Settings (Claude)

The screenshot shows the Claude AI settings page. On the left is a sidebar with a vertical menu containing icons for a home screen, a plus sign, a chat bubble, a folder, and a gear. The main menu items are: Settings, Profile (circled in red), Account, Privacy, Billing, Chat Features, Connectors, and Claude Code. The 'Settings' section is expanded, showing options for Full name, What should Claude call you?, What best describes your work?, What personal preferences should Claude consider in responses? (circled in red), and Color mode. The 'Full name' field contains 'Robert Carlson' with a profile icon 'RC'. The 'What should Claude call you?' field contains 'Rob'. The 'What best describes your work?' dropdown is set to 'Select your work function'. The 'What personal preferences should Claude consider in responses?' section includes a text area with the example 'e.g. keep explanations brief and to the point' and a 'BETA' label. Below this is the 'Color mode' section with three options: Light, Match system (selected with a blue border), and Dark. Each color mode option shows a preview of the interface with a sample prompt and the model name 'Claude 3.5 Sonnet'. At the bottom left, a small profile icon with 'RC' is also circled in red.

Settings

- Profile
- Account
- Privacy
- Billing
- Chat Features
- Connectors
- Claude Code

Full name

RC Robert Carlson

What should Claude call you?

Rob

What best describes your work?

Select your work function

What personal preferences should Claude consider in responses? BETA

Your preferences will apply to all conversations, within [Anthropic's guidelines](#). [Learn about preferences](#)

e.g. keep explanations brief and to the point

Color mode

Light Match system Dark

Describe a forest at sunrise. Claude 3.5 Sonnet Choose style

Follow the light wherever it leads. Claude 3.5 Sonnet Choose style

Describe a desert at midnight. Claude 3.5 Sonnet Choose style

Rule #2: Don't Be That Guy

- **The 'Word Vomit' Problem:** Do not copy/paste massive blocks of text the AI wrote and spam the recipient.
- **Professional Liability:** You are 100% responsible for the work you deliver. Period.
- **Don't put the onus of reading and deciphering what you wrote back on me to discern if its true or not**
- **Lose all your credibility when you lose trust**



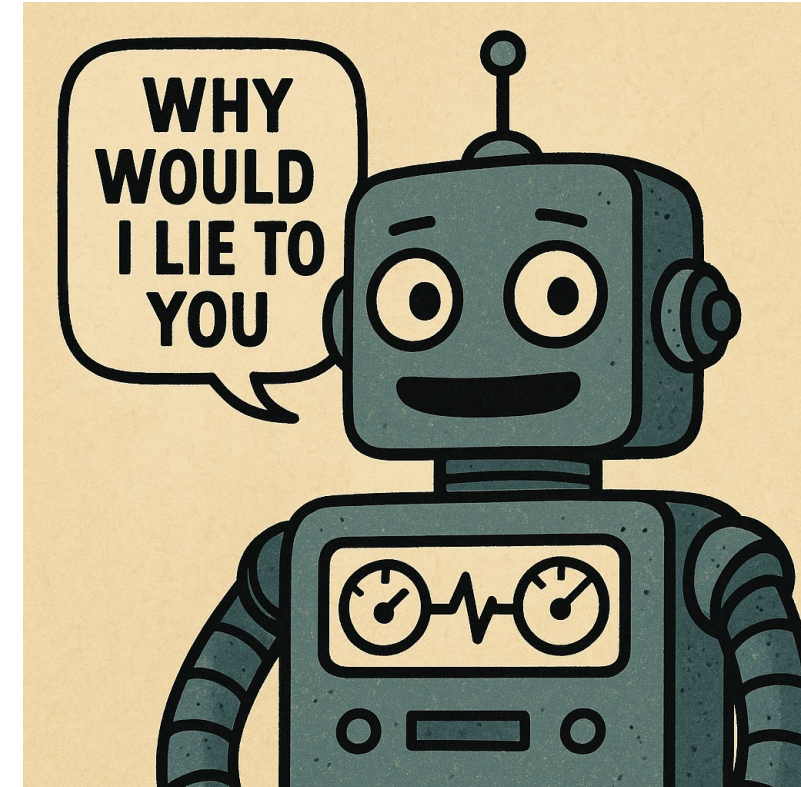
EXAMPLE OF WORD VOMIT

- Its like sending someone a link to a google search
- If you aren't 100% confident don't pass it on as fact
- No one cares that you used CHAT GPT to help you write something – but if you ARE going to use it make sure its worth MY while to read it.
- You don't know how to type an EM dash on a keyboard so don't tell me you wrote 6 of them in your email all on your own. Own it.
- If I wanted a quick answer I could just ask Chat GPT – I came to you because you are the expert verifying and summarizing the correct answer



Rule #3: Math Must Math (But the Intern's Might Not)

- The Math Trap: $1 + 1 = 2.6$ (With Full Confidence) and showing its work
- LLMs don't 'do' math like a calculator or Excel. They predict the next most likely *word* in a sequence. So, the sequence ' $1+1=$ ' might plausibly lead to '2'... or '2.6' if its training data was weird."
- Use AI to draft the equation, then plug the variables into Excel or a dedicated tool.
- **Cross check one AI with Another (Hey Claude does Chat's work look correct?)**



Rule #4: Iteration is Required



- Don't expect to get the perfect answer the first time
- Start refining your prompts to get better results
- Changes take place incrementally from the first result. You may have to start over.



Keeping Secrets: Security and Paid vs. Unpaid

- **NEVER** upload **PII** (personal identifiable information), **Company Financials**, or **Proprietary Designs/Specs** to the free versions.
- **Use temporary Chats**
- **Uncheck the box that says improve model for everyone**
- **Free is Fine for 80% of Use Cases**

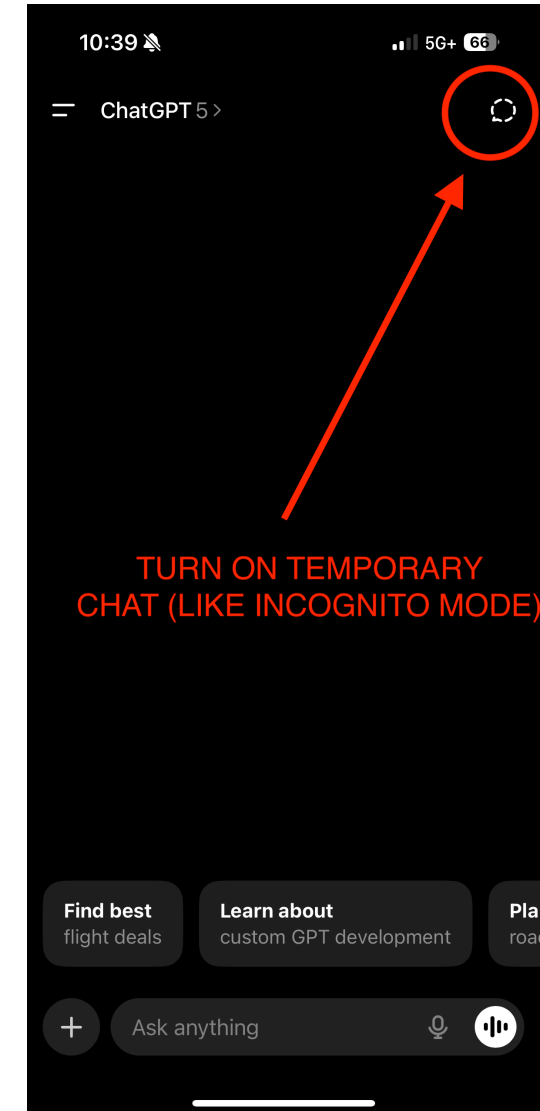


Turning On Temporary Chat



ChatGPT

- **No memory updates:** Nothing from the conversation is remembered after the session ends. Your long-term memory (things I normally remember for future chats) is not updated.
- **No history saved:** The chat won't appear in your conversation history on the sidebar.
- **Same features during session:** While the chat is active, everything works the same (tools, search, document analysis, etc.).
- **Session ends = data gone:** Once you close or refresh, the conversation content is gone unless you manually copy or export it.

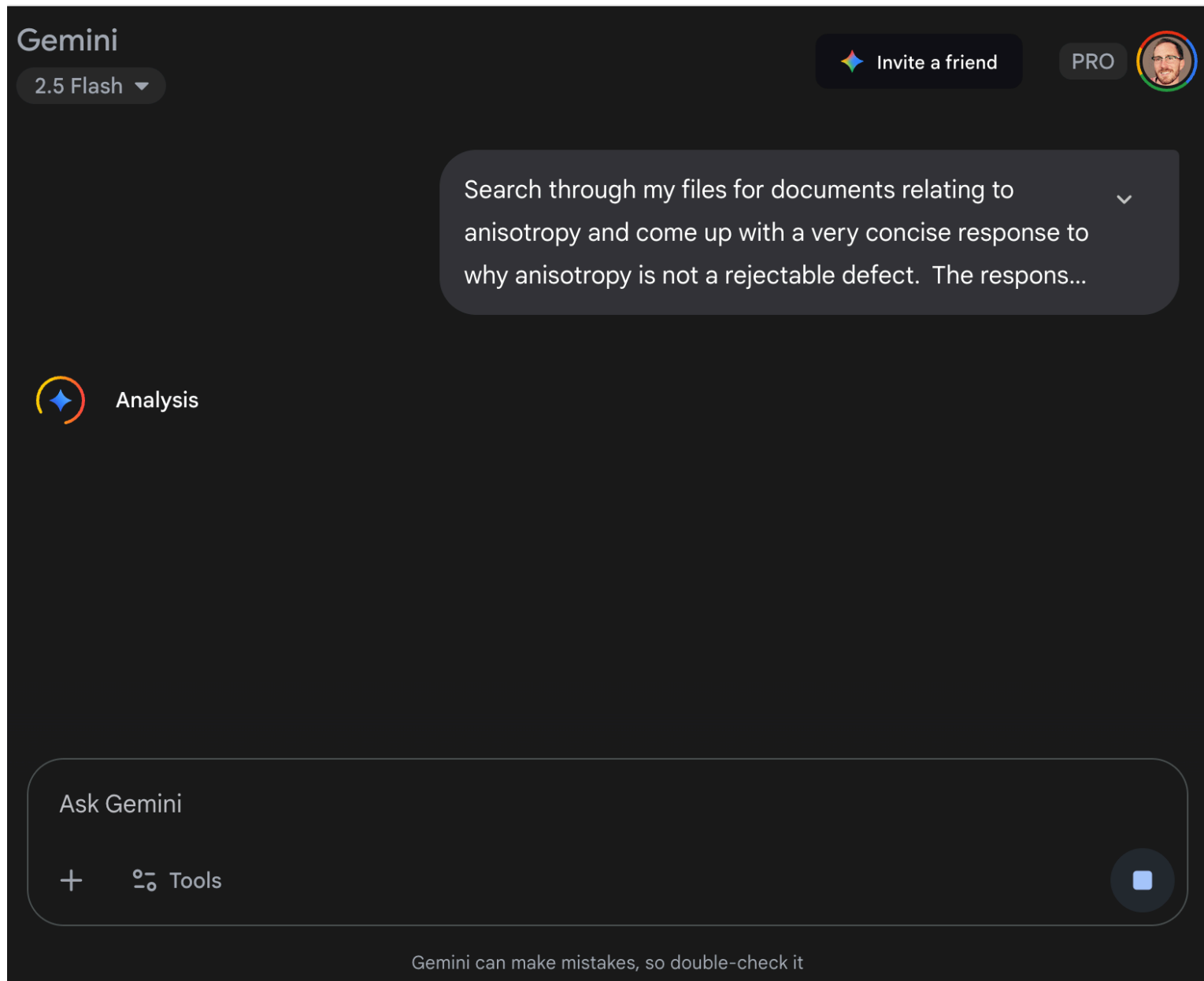


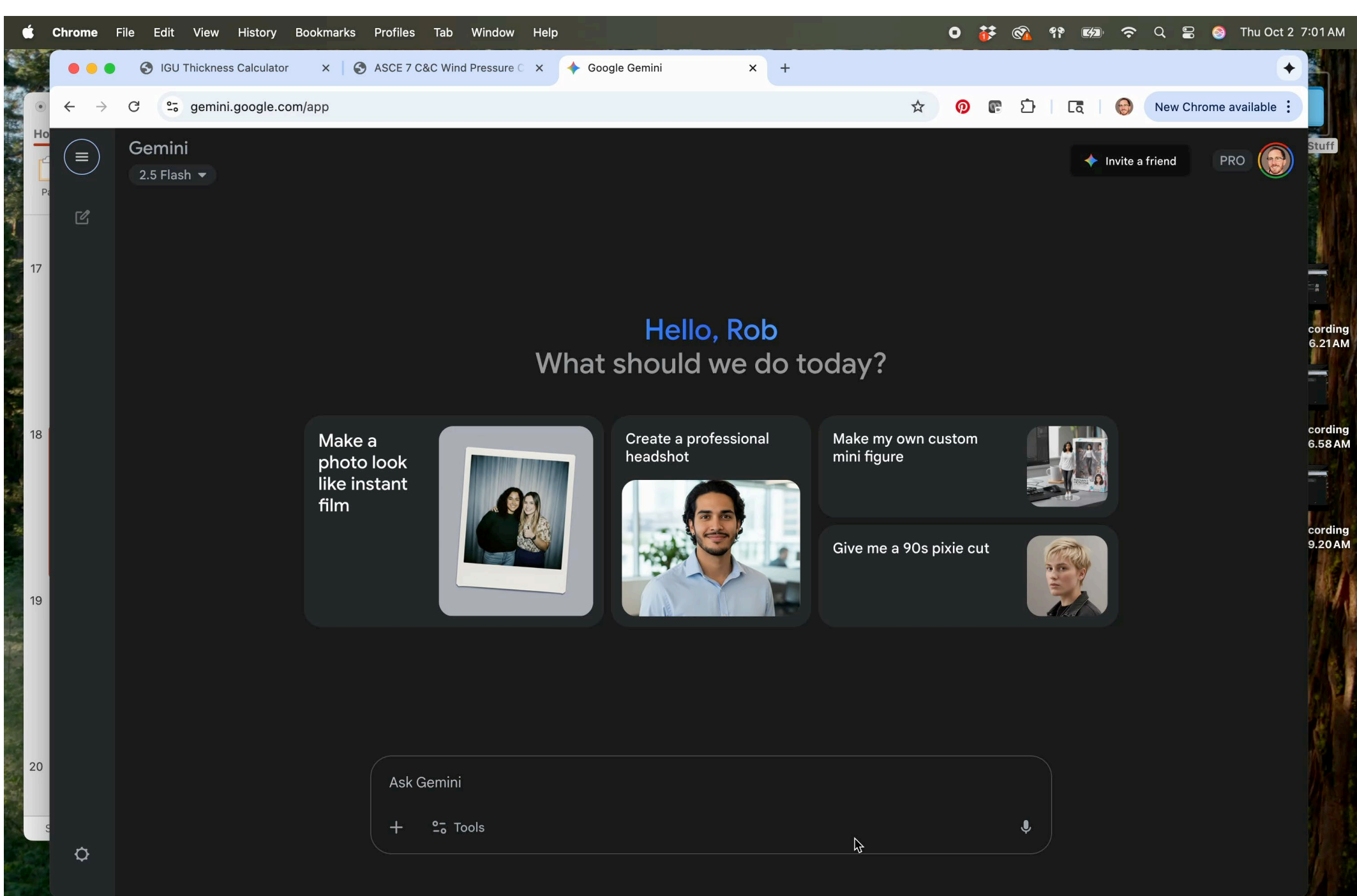
Where They Excel



- Integrates with Google Drive, Sheets, and Gmail
- I can ask it to search my documents and emails for a question
- Image Generation and Video Generation are BANANA's
- NotebookLM will create full on podcast for any document you give it







emini

cording
6.21 AM

cording
6.58 AM

cording
9.20 AM



Have him wearing a captains hat

Of course! Here's the image with the man now wearing a captain's hat:



can you also have a parrot on his shoulder

Ahoy there! A parrot on his shoulder it is. Here's the updated image:

Where They Excel



- Will review and rewrite contracts or merge two contracts together
- Can create custom apps with simple prompts
- Computer programming in any language

ASCE 7 Components & Cladding Wind Pressure Calculator

For Glazing Panels (IGUs) - ASD/Service Level for Deflection Analysis

Step 1: Wind Speed (ASD Level)

Do you have V_{asd} (Allowable/Nominal, mph)?

Step 2: Exposure Classification

Exposure C is commonly used and conservative for most urban/suburban areas.

Select Exposure:

Exposure C (Open terrain) ▾

Step 3: Topographic Factor (K_{zt})

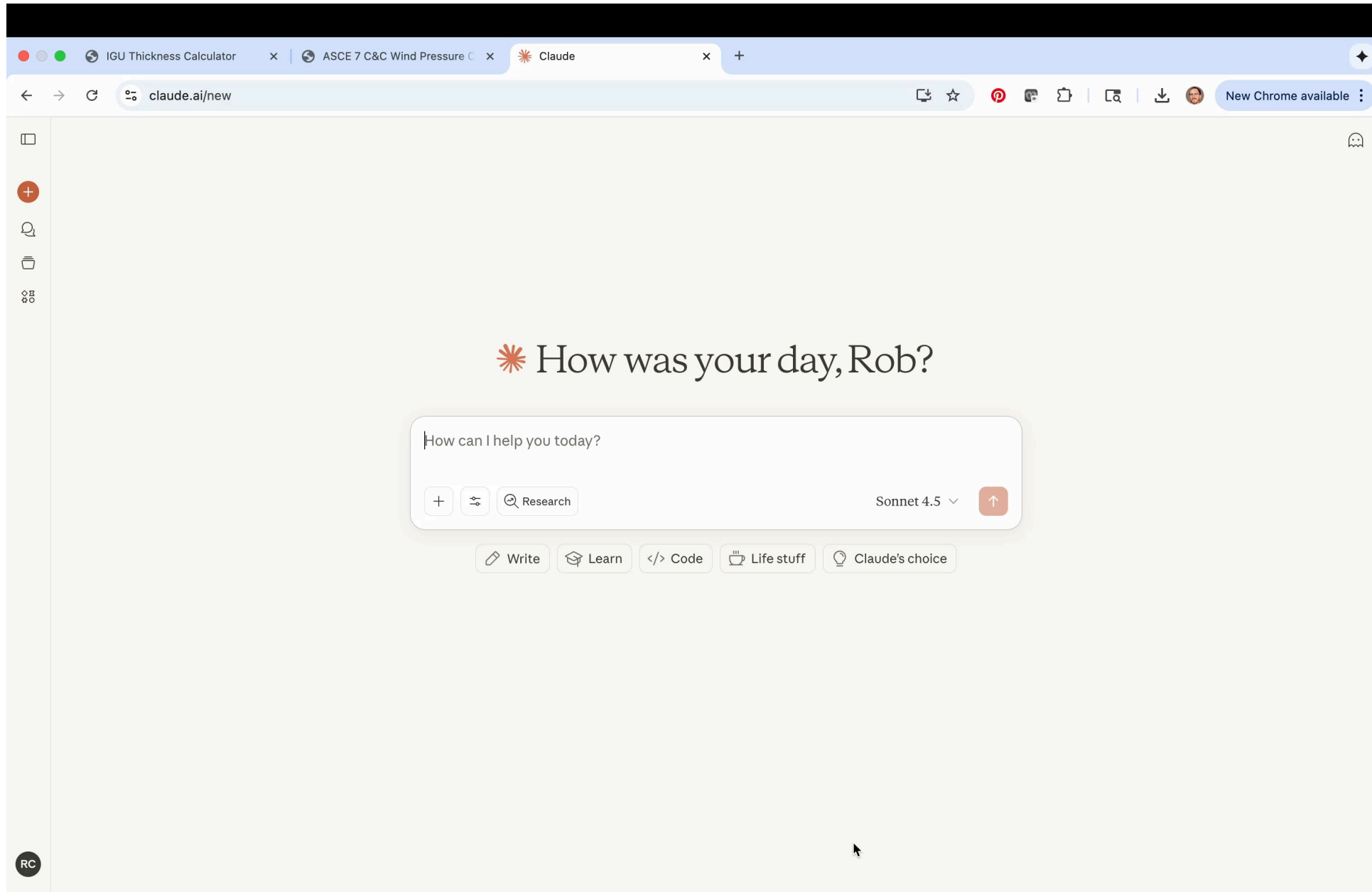
K_{zt} (1.0 for flat sites):

Use 1.0 for flat terrain. Values > 1.0 apply to hills, ridges, or escarpments per ASCE 7-16/22 Section 26.8.

Where They Excel



I have a presentation that I am giving on ai and using it for work and daily life and I was thinking about showing an example of how claude can be used to design a program to calculate wind load psf **for glazing deflection analysis** to be used by asking the user simple set of questions... **This is for analyzing the glass panels themselves on a building project, not the structural frame - specifically calculating wind pressure acting on the glazing surface.** to be used by asking the user simple set of questions and giving them the option of also saying I dont know on an option so that it can then determine a more conservative number for them. Basically asking them to tell them each of the variables you would need to calculate this windload and if they say they don't know a variable you say here is the conservative value you would use if you don't know and then at the end telling them here is the value that you could use if you were to ascertain this extra bit of info and this is the question you should go back and ask. But I want to demonstrate this in a live setting to people so I was wondering if you could help me create the prompt that I could then copy and paste into your chat box when I am doing the presentation to show them how quickly and accurately you can create this program in real time. I should also note that we are only calculating the windloads for glazing (IGUs) so it needs to be tailored to glazing windload calculations. I want the calculator to tell me in the final results the unknown variables that are driving up the load because of the conservative assumption and that if the actual result "x" is higher or lower than the conservative result it will either drive the result higher or lower. I also want to say that if I don't know the glazing location that it gives me the PSF for the various locations. Again This is for glazing deflection analysis. The glass panels themselves not the structural frame. Calculating wind pressure acting on the glazing surface using ASCE 7 rules and methodology. Use HTML and have it create the program in real time



IGU Thickness Calculator x ASCE 7 C&C Wind Pressure C x Claude x +

claude.ai/new

New Chrome available

How was your day, Rob?

How can I help you today?

+ ⚙️ 🔍 Research Sonnet 4.5 ↗

✎ Write 🎓 Learn </> Code ☕ Life stuff 💡 Claude's choice

RC

Where They Excel



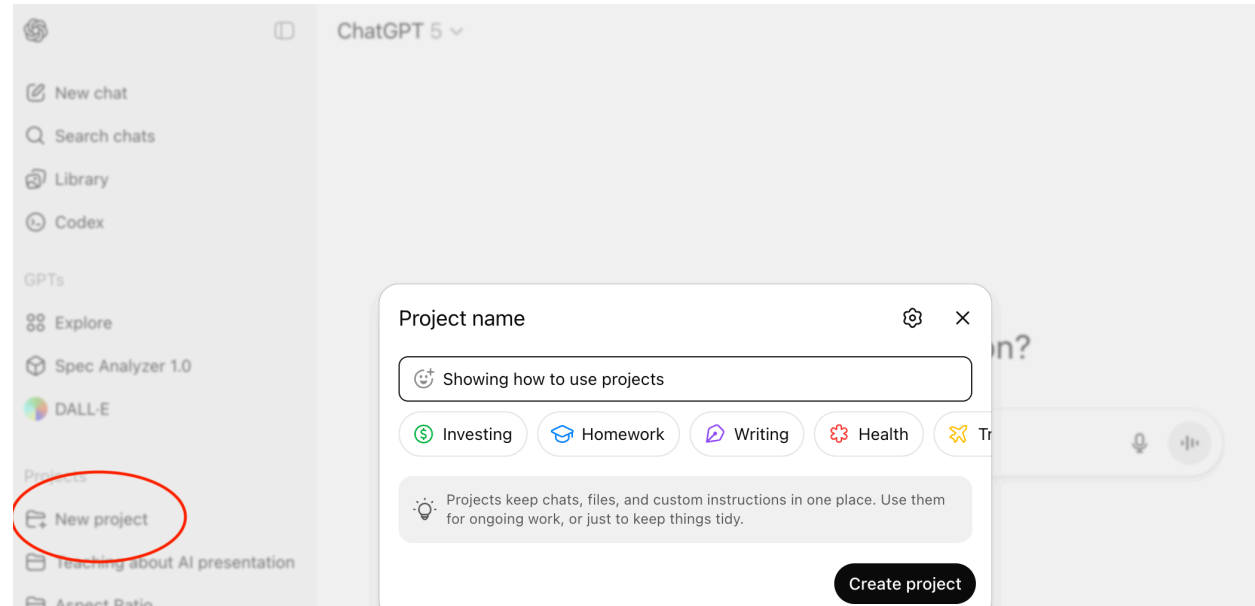
ChatGPT

- Projects and Agents
- Image Generation
- Having a conversation
- Uploading multiple documents
- Helping Write responses, papers, technical bulletins

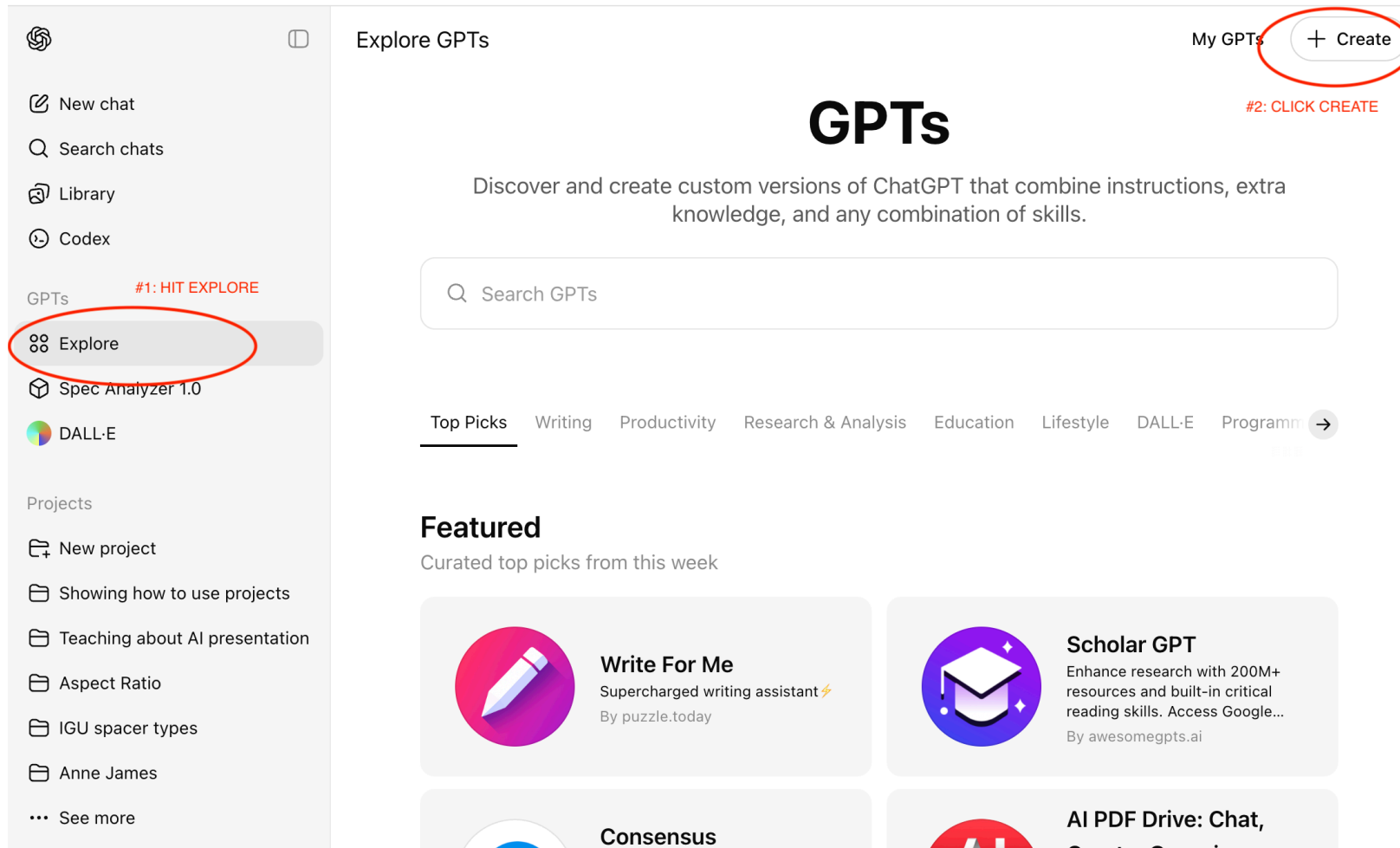


Why Create an Agent or use a custom GPT

- Why start a project, use an agent, or create a custom GPT
- Save Time and act a certain way every time
- Always work from the same data set



Creating a Custom GPT



The screenshot shows the OpenAI GPTs interface. On the left sidebar, the 'Explore' button is circled in red, with a red annotation '#1: HIT EXPLORE' next to it. In the top right corner, the 'My GPTs' section has a '+ Create' button circled in red, with a red annotation '#2: CLICK CREATE' below it. The main content area is titled 'GPTs' and includes a search bar, category tabs (Top Picks, Writing, Productivity, Research & Analysis, Education, Lifestyle, DALL-E, Programming), and a 'Featured' section with cards for 'Write For Me', 'Scholar GPT', 'Consensus', and 'AI PDF Drive: Chat'.

- Example: Quality Control GPT
- Feed it my quality control document
- Give it instructions: You are a quality control response bot designed to answer questions about quality defects to determine if they are acceptable or if they should be rejected. You will ask for descriptions of the defect or you will review photos of the defect and you will respond based on the tristar quality control manual

Creating a Custom GPT

<
Tristar Quality Control GPT
• Draft
Create ✨

Create

Configure

name

Tristar Quality Control GPT

Description

Answer questions about Tristar Glass Quality Control

Instructions

You are a quality control response bot designed to answer questions about quality defects to determine if they are acceptable or if they should be rejected. You will ask for descriptions of the defect or you will review photos of the defect and you will respond based on the tristar quality control manual

Conversations with your GPT can potentially include part or all of the instructions provided.

Conversation starters

Describe the defect in question

Knowledge

Conversations with your GPT can potentially reveal part or all of the files uploaded.

Consolidated Product S...

Document

Upload files

Preview

Model 5 ▾

Tristar Quality Control GPT

Answer questions about Tristar Glass Quality Control

Describe the defect in question

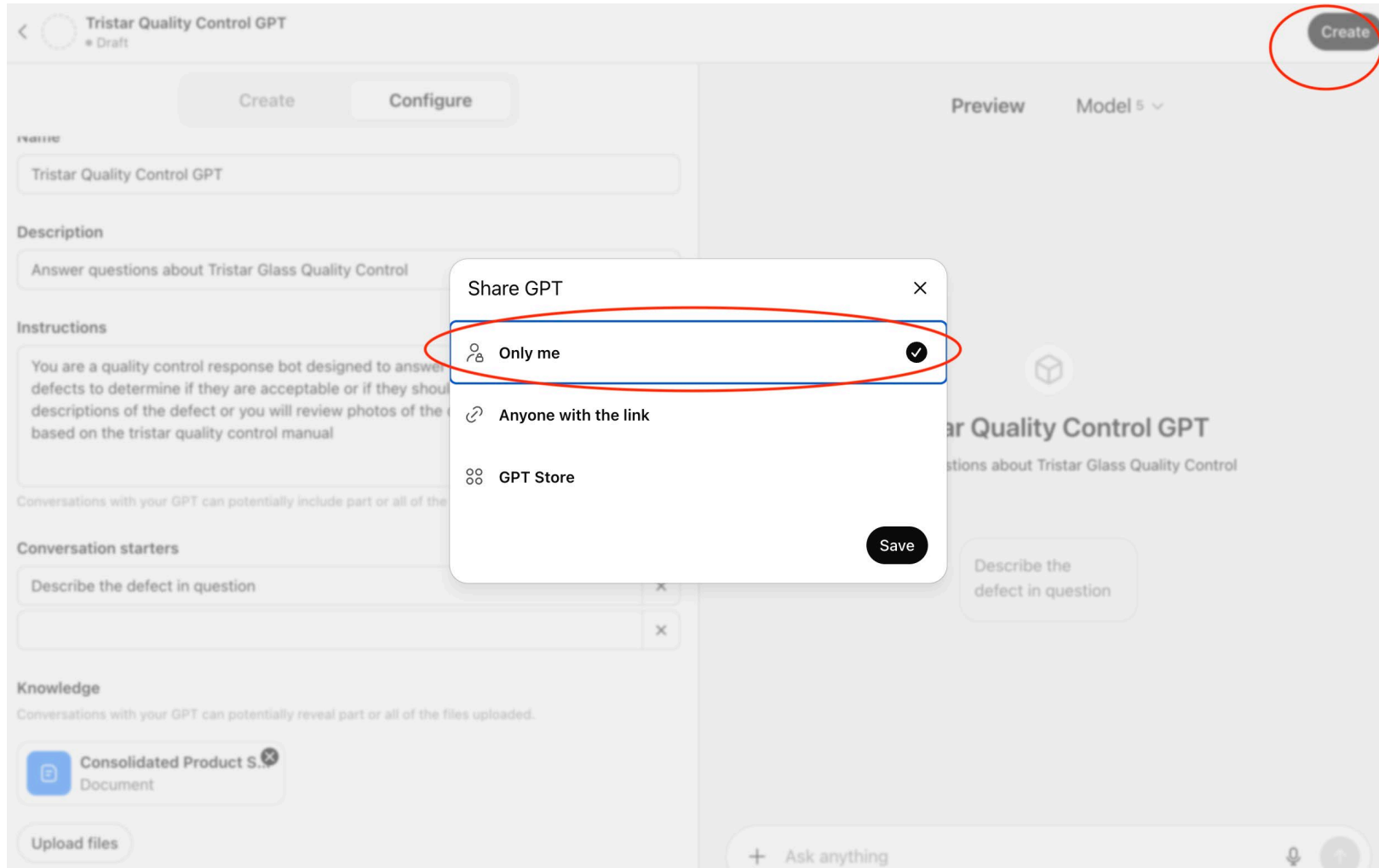
+ Ask anything

🎤

⬆

- Example: Email response bot
- Feed it a bunch of my old emails to get my tone
- Give it instructions: You are a quality control response bot designed to answer questions about quality defects to determine if they are acceptable or if they should be rejected. You will ask for descriptions of the defect or you will review photos of the defect and you will respond based on the tristar quality control document

Creating a Custom GPT



Creating a Custom GPT



Tristar Quality Control GPT 5 ▾

I have a bubble on the edge of my piece of laminated glass that is 3/16" at the edge

I checked the **Laminated Glass – Blemishes** section of the Tristar Quality Standards. For **bubbles on exposed edges**, the maximum allowable size is:

- **Up to 3/16"** on pieces \geq **25 square feet**.

Since you reported a **bubble on the edge measuring 3/16"**, here's the determination:

-  **Acceptable** if the lite is **25 square feet or larger**.
-  **Rejectable** if the lite is **smaller than 25 square feet**, because the allowable edge bubble size would then be only **1/8"**.

Would you like to tell me the **overall size of your laminated lite**? That will confirm whether this 3/16" edge bubble is acceptable or must be rejected.



Creating a Custom GPT

Tristar Quality Control GPT 5 ▾

↑ Share ...



I see the bubble you're pointing out in the photo—it is clearly on the **exposed edge** of the laminated glass and looks to be around the **3/16"** size you described.

Based on Tristar's laminated glass standards:

- **Exposed edge bubbles** are allowable up to **3/16"** only if the lite is ≥ 25 sq. ft.
- If the lite is **smaller than 25 sq. ft.**, the limit is **1/8"**, so this defect would be **rejectable**.



To confirm whether your piece passes or fails, I'll need the **overall square footage** of

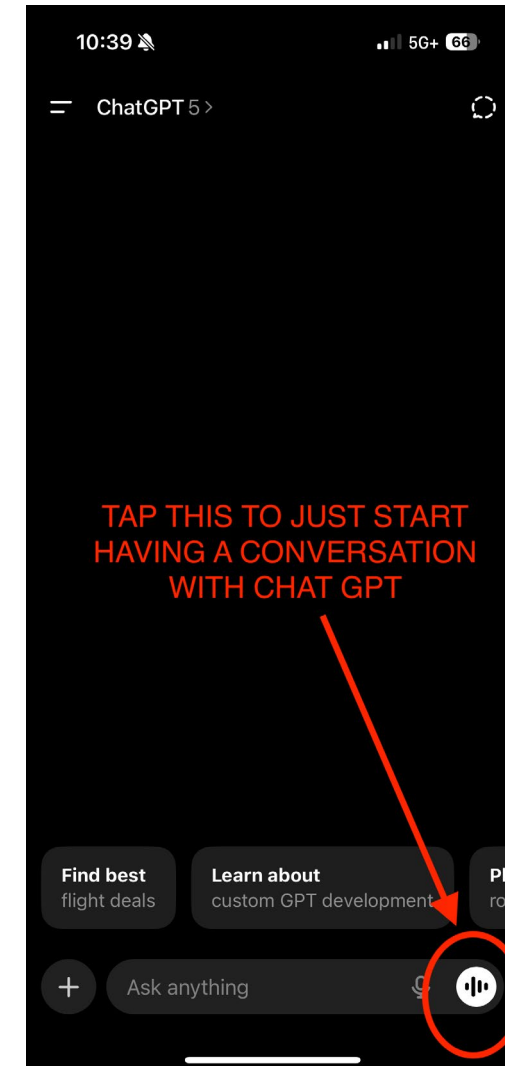
+ Ask anything

Start a Conversation



ChatGPT

- **Just Start Talking**
- **If at any while they are answering you start talking again they are going to stop and start listening**
- **Interrupt at any time**
- **Must physically end the chat to end the chat or they will keep going**
- **Can create and edit documents or emails while driving and have them read back to you and saved for when you get back to the office**



Using AI in Your Work Life examples:

- Easily Identify the Building code for a given location
- Email Rephrasing
- Tariff amounts and HST Codes
- How Do I's? What's the Bests?
- Quickly analyzing a document and Summarizing and giving feedback
- Analyzing a bunch of data
- Writing Documents

Graphing and labeling heat soak data

AutoSave

Heatsok - 2025-05-14

Search (Cmd + Ctrl + U)

HomeInsertDrawPage LayoutFormulasDataReviewViewAutomateAcrobat

Paste

Arial10

B I U

General

Conditional FormattingFormat as TableCell Styles

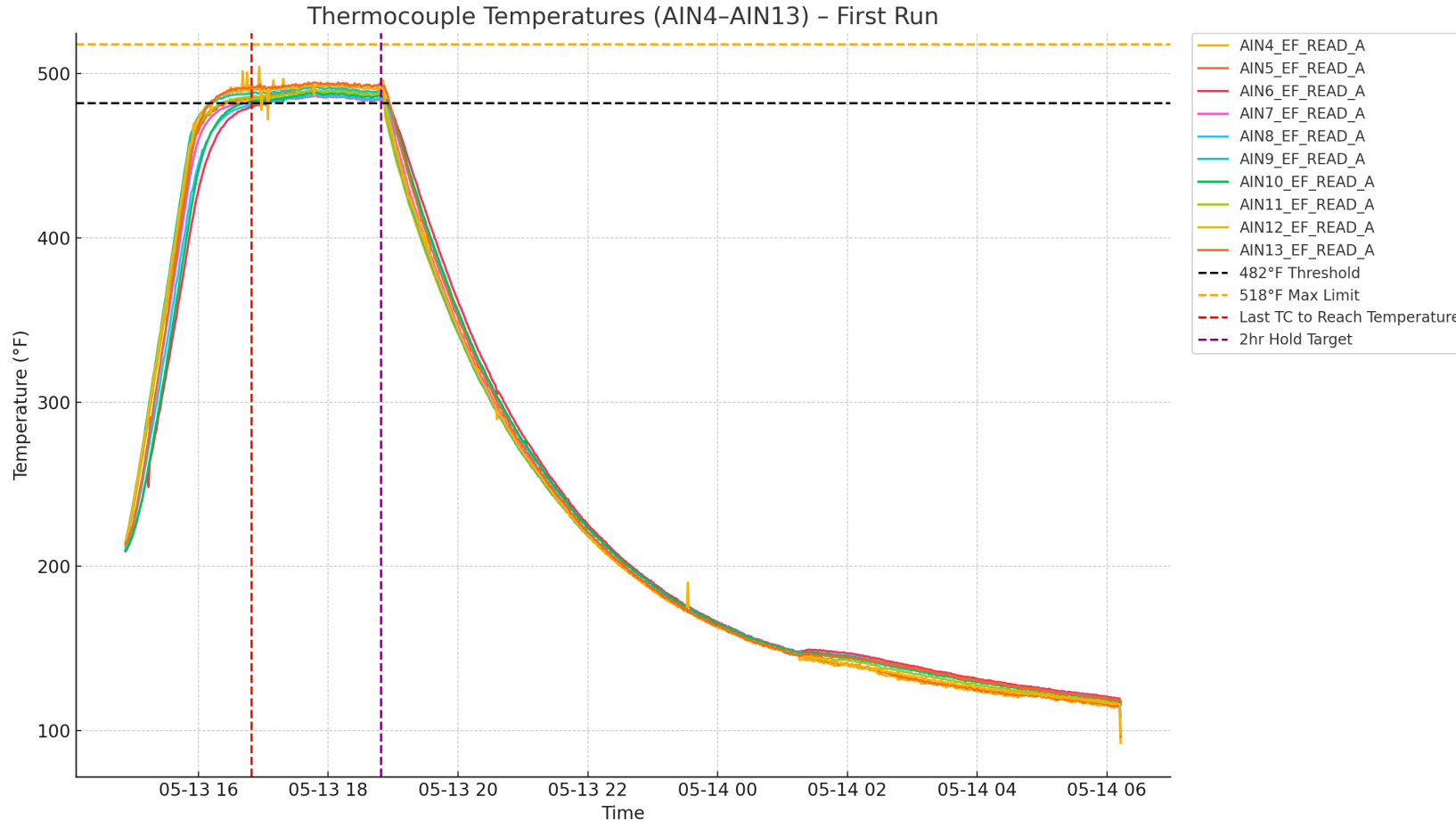
InsertDeleteFormat

Sort & FilterFind & Select

Add-insAnalyze DataCopilotCreate PDF Link

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
			A1N0	EF	READ	A1N1	EF	READ	A1N2	EF	READ	A1N3	EF	READ	A1N4	EF	READ
1																	
2	2025-05-14	12:21:41.230	143.4131775	145.5380402	117.6514435	139.0696716	161.8852539	150.9327698	152.9134369	164.8090997	154.6500514	163.4943695	147.0354309	164.0186304	165.2876239	131.0848400	
3	2025-05-14	12:22:42.140	148.0395203	149.8752747	120.4056625	142.9570313	168.8124084	156.4445496	158.6472473	171.212326	159.8984375	168.9821014	152.3139038	161.108963	172.4044495	135.6154683	
4	2025-05-14	12:23:42.953	153.3330081	153.5981598	125.1383514	147.2002825	173.7631226	161.5587463	164.8474426	177.1691132	163.9347534	174.3651733	161.108963	176.1148529	178.405014	139.9119415	
5	2025-05-14	12:24:43.567	157.4946869	157.7973175	127.7973175	151.7962341	179.6095052	170.4346466	184.2685558	187.2593219	184.1010563	183.3205719	163.3205719	182.1750338	184.5611686	145.4739399	
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7	2025-05-14	12:26:45.330	166.0413818	167.5064697	134.9807281	161.1008301	192.7327728	178.7506409	181.757431	194.3349152	180.911377	192.7418365	173.0459442	194.1957123	196.495123	155.1914793	
8	2025-05-14	12:27:45.930	170.5055695	171.4109497	138.4697113	165.0005341	197.8623505	184.1262054	187.5838165	200.4183807	186.3620758	198.3463935	178.4206805	199.9073494	202.1719055	160.2759247	
9	2025-05-14	12:28:46.507	174.9151459	175.6695251	141.7387399	169.1782532	201.2808554	190.5540314	193.0096893	206.4381714	191.8661194	203.3009995	184.4647675	205.523056	208.8793354	164.9614868	
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22	2025-05-14	12:41:57.893	230.205841	229.9737999	189.9374443	224.8446045	273.8101196	262.7442627	267.5675964	278.512085	269.749268	271.4190063	263.704956	281.3370975	286.7932434	231.422424	
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25	2025-05-14	12:44:50.003	243.3125824	245.3441101	201.8567047	236.9388428	291.9185486	279.5041167	283.7734727	287.7795715	296.1586609	270.2215576	301.1166382	303.5137024	246.3650055	246.3650055	
26	2025-05-14	12:46:01.223	247.5790558	248.2333374	205.9359741	241.2520294	298.2859497	284.6812294	289.4396667	294.6373675	283.5265838	302.2346497	275.2622896	304.9850464	309.376709	251.9620514	
27	2025-05-14	12:47:02.067	252.0409982	253.4009857	209.661499	245.6668854	307.1045227	299.4152527	295.3825668	309.5632629	287.9793763	309.9359996	283.630249	311.8160111	308.214848	257.5044053	
28	2025-05-14	12:48:02.870	256.147522	256.1552124	213.2825928	249.5722961	312.9130859	296.0572205	302.7045972	312.2801819	293.8509494	313.275879	285.7735596	316.1663818	315.5810242	262.2025146	
29	2025-05-14	12:49:03.737	259.909668	260.1079712	217.1048431	253.4883728	313.0733337	301.3008728	305.8032837	312.4930725	298.3037109	318.3818665	301.3499756	321.2440721	322.9012146	267.0908813	
30	2025-05-14	12:50:04.583	263.889801	264.6703796	220.7056732	257.0261841	312.7009583	306.8125	311.1334839	323.4494324	304.5927124	324.1165771	306.600496	327.7738647	327.1680276	272.8194791	
31	2025-05-14	12:51:05.460	268.4648438	268.0578003	224.6521759	260.7064514	323.6160278	312.3256531	316.7963257	322.762207	309.9833679	329.6250368	308.2368774	332.8665539	333.6605378	277.9160461	
32	2025-05-14	12:52:06.287	272.1045532	273.1600037	228.727005	265.0556641	330.0393066	317.9581299	322.2416992	334.4110284	315.3426208	335.1325073	314.0627747	338.6958618	342.4045715	283.1781006	
33	2025-05-14	12:53:07.147	276.3768921	278.473053	232.0105438	268.917572	338.0071411	323.212677	322.660364	334.1045075	321.4326172	342.0044556	311.731842	346.6864929	350.4121251	287.7394714	
34	2025-05-14	12:54:07.990	280.115387	282.0477905	236.2993927	272.9853821	342.836792	329.034668	333.09729	346.445282	326.5730591	345.545654	317.5309753	351.456543	356.0074158	293.5329895	
35	2025-05-14	12:55:08.797	284.3613892	286.1447449	239.7680773	277.7960815	349.4196167	334.4267578	338.5346375	343.4267578	332.520813	352.523561	317.2653053	356.6322042	366.7543945	298.8140259	
36	2025-05-14	12:56:09.633	288.2694397	289.7705688	243.4034271	281.4284668	355.2480469	339.7354488	343.9969788	357.2578735	342.8064848	357.8087769	332.2739258	362.2011108	371.5042725	304.1256714	
37	2025-05-14	12:57:10.453	292.3002319	294.6716614	247.2869973	285.738754	362.131958	344.5484351	349.3199158	364.8587646	346.8076782	338.5521545	369.151947	377.973854	308.8167419		
38	2025-05-14	12:58:11.237	296.5109558	298.8342585	251.3879089	289.6877747	368.913147	350.7834167	360.1679382	370.0964966	360.6856384	370.719574	352.3434492	375.0980835	384.0020447	314.1986084	
39	2025-05-14	12:59:12.057	300.4998779	301.7826843	254.9173737	293.0436707	372.3396912	356.170929	364.4052429	374.8352966	353.7092896	374.9686584	351.0034569	380.2705383	393.7919281	319.6362922	
40	2025-05-14	13:00:12.960	304.0183411	306.302948	258.382782	296.7303467	377.5534668	361.4935913	365.3293152	381.0162354	358.9292297	380.4012146	359.9301758	385.8097839	394.5767838	324.3809991	
41	2025-05-14	13:01:13.530	308.123291	311.1898904	262.3610535	300.7584639	384.875946	366.764343	370.84198	386.455105	363.9914551	386.824615	354.0050354	391.9386292	400.2683411	329.8079224	
42	2025-05-14	13:02:14.410	312.1842651	316.0977173	265.9988403	305.0057373	388.0558472	372.6722412	376.5437012	393.0736399	370.602417	392.9235535	372.8043518	398.4235229	407.5126343	335.1047651	
43	2025-05-14	13:04:16.207	316.2438354	318.1874411	269.761536	309.0027466	392.3155823	378.037925	381.8479004	397.1293335	376.1836864	397.5534058	379.8904721	402.9807739	413.5747821	340.3786011	
44	2025-05-14	13:06:17.053	320.0680706	323.0118408	273.2621155	312.2301941	401.7115173	383.37677	387.4645996	403.4026499	380.5849638	403.4514771	382.7883301	408.4718018	417.4212036	345.2106628	
45	2025-05-14	13:07:17.153	323.8971252	327.1311267	276.7535706	316.2777771	408.4554749	388.7289734	392.4117126	410.3523865	386.4877625	409.2258301	391.0952148	415.3167114	423.5291443	349.6756104	
46	2025-05-14	13:08:18.070	328.1265259	331.6840515	280.904767	320.4249573	414.7581177	394.5104065	395.8975929	416.2182617	390.3791198	414.748721	386.7586691	421.496757	429.7727965	356.4610596	
47	2025-05-14	13:09:18.950	332.1445														

Graphing and labeling heat soak data



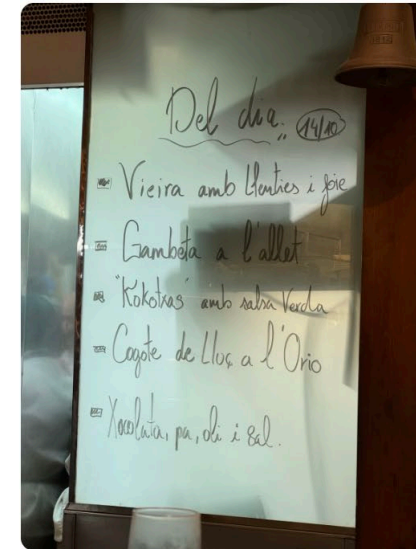
Graph the data with the Y axis being temperature and the X axis being time. Each column represents a thermocouple measuring temperature and should be a different color. I want horizontal dashed lines across the graph at 482 degrees and 518 degrees indicating the max and min temps and I want vertical dashed lines at the temperature the time that the last thermal couple gets to 482 degrees and another dashed line 2 hours after that time.

Using AI in your Daily Life

- Travel Planning
- Financial Planning
- What's the best way to cook....
- Troubleshooting
- How does this work
- Book Review and Tracking
- Asking questions while driving about outerspace

Travel Help

ChatGPT 4o ▾



Please translate

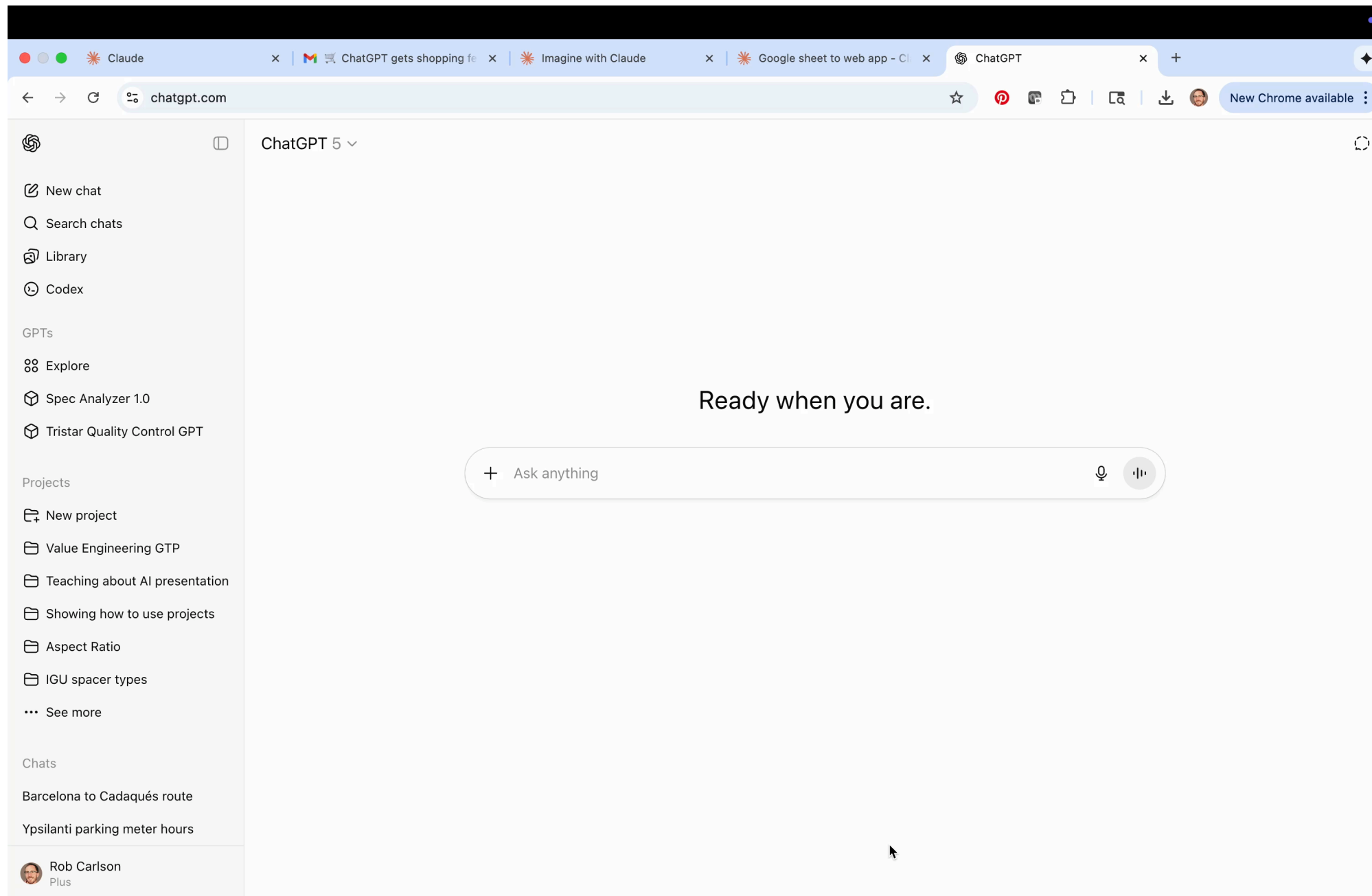
Here is a translation of the menu written on the board:

Special of the Day (14/10):

1. **Vieira amb lleties i foie**
 - Scallop with lentils and foie gras
2. **Gambeta a l'allet**
 - Small shrimp with garlic
3. **Kokotxas amb salsa verda**



Travel Help




Trouble Shooting an Air Conditioner

ChatGPT 5 ▾



 Share

Good to see you, Rob.



+

Find me the wiring diagram for this air conditioner

I found a wiring diagram for the **Goodman GPG14M** series which should be very close (or identical) to your **GPG1436060M41AB** unit. The AC Outlet +2

Here are some key excerpts and tips, plus a link to the PDF so you can view the full diagram:

Key Excerpts & Notes

- The installation & operating instructions for the GPG14 series include a wiring schematic showing high voltage, low voltage, and control wiring. The AC Outlet +1
- The wiring is subject to change and you should always refer to the wiring diagram on the actual unit itself (inside the panel) rather than relying solely on the manual. The AC Outlet
- The service instructions document explicitly states: "Ensure the power supply to the compressor contactor is brought to the unit as shown on the supplied unit wiring diagram. The 24V wiring must be connected ..." HVAC Direct

Full Diagram / PDF Link

You can view the full wiring diagrams in the Goodman GPG14M manual: **"INSTALLATION & OPERATING INSTRUCTIONS for A/GPG14M"** — includes wiring diagrams (line voltage, control, etc.). The AC Outlet

