

Hacks for Working with Gemini

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Proprietary & Confidential



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The Gemini Ecosystem

The most advanced AI from Google



What is artificial intelligence?

Teaching computers to do tasks that normally require human intelligence

It'll take you 28 minutes
to get home

Here's what you should stream next

What is GenAI?

While some AI analyzes or predicts, GenAI creates something **new** based on the prompts you give it. GenAI is powered by **Large Language Models** (LLMs).

Write me an email that
summarizes this meeting

Explain how the NBA draft works in plain
language

Anatomy of a Prompt

Persona

You are an expert policy analyst for a state's Department of Health. I am drafting a memo for my director about the impact of new federal food safety regulations on local restaurants.

Context

Task

Summarize the key changes in the attached document, identify three potential challenges for small business owners, and suggest one outreach strategy for each challenge. Present the summary as a bulleted list and put the challenges and strategies into a markdown table.

Result

What's an agent?



LLM

Agent's "brain":
Understands language, has
general knowledge of the
world

Tools

Connecting to tools allows
agents to actually **act**

Agent = LLM + Planning + Tools + Memory

Planning

Agents can pause, break a
complex goal into steps,
and double-check its own
work

Memory

Short-term memory allows
for conversation; long-term
memory provides grounding
and history

Adopting an AI-first mindset



+ how do i write a regex expression

Google Search

I'm Feeling Lucky

how do i write a regex expression?

Writing a Regular Expression (Regex) boils down to stringing together four fundamental building blocks: Literals, Character Classes, Quantifiers, and Anchors.

1. The Core Building Blocks

Component	Syntax	Meaning	Example
Literals	hello	Matches exact text	Matches "hello"
Character Classes	\d, \w, \s	Match categories (digits, word characters, spaces)	\d matches
Custom Class	[a-z]	Matches any character inside the brackets	[aeiou] matches vowel
Quantifiers	+, *, ?, {n}	Controls how many times the preceding item repeats	\d+ matches
Anchors	^, \$	Lock the match to the start (^) or end (\$)	^Start

Thank You

Google Cloud