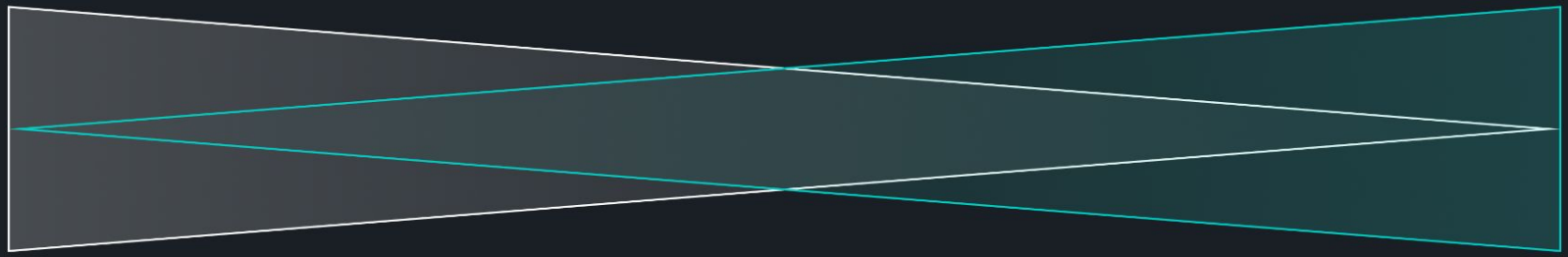
Model → ??? → Product

This is a talk about what happens in the middle

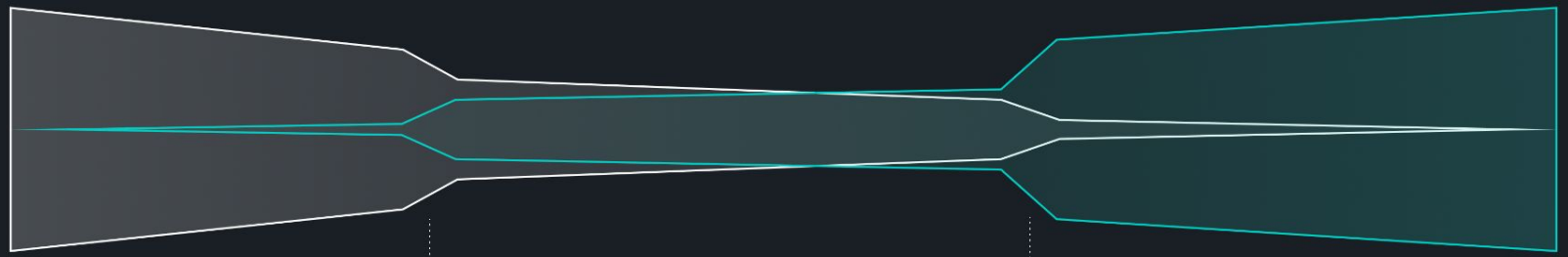
Tools

People



Tools

People



deep learning

large language models

Demo!

ceci n'est pas un product

HI THERE, I'M
Idan
(rhymes with: EE-dawn)

idangazit
idan@vis.social

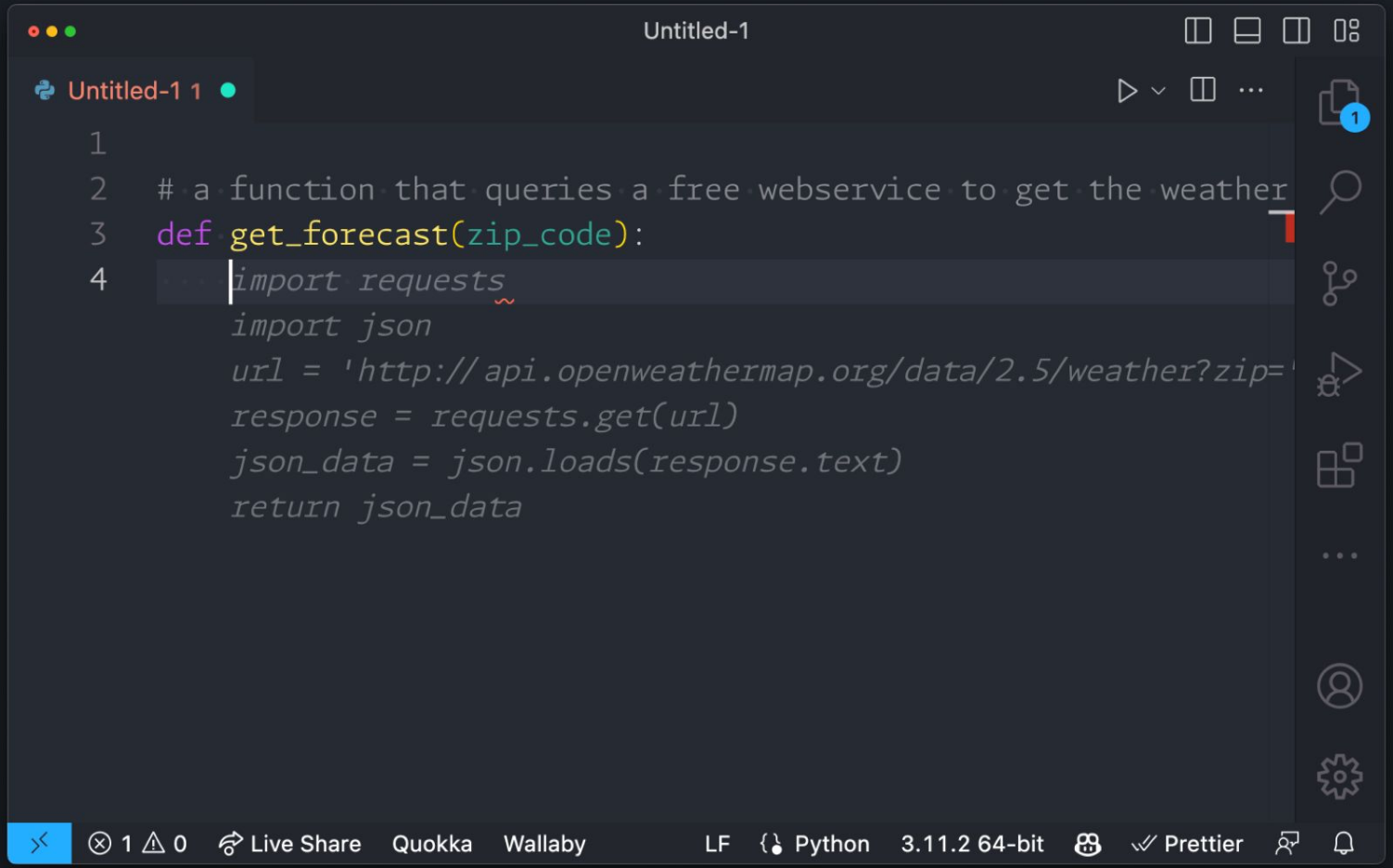
AND I WORK AT
GitHub Next

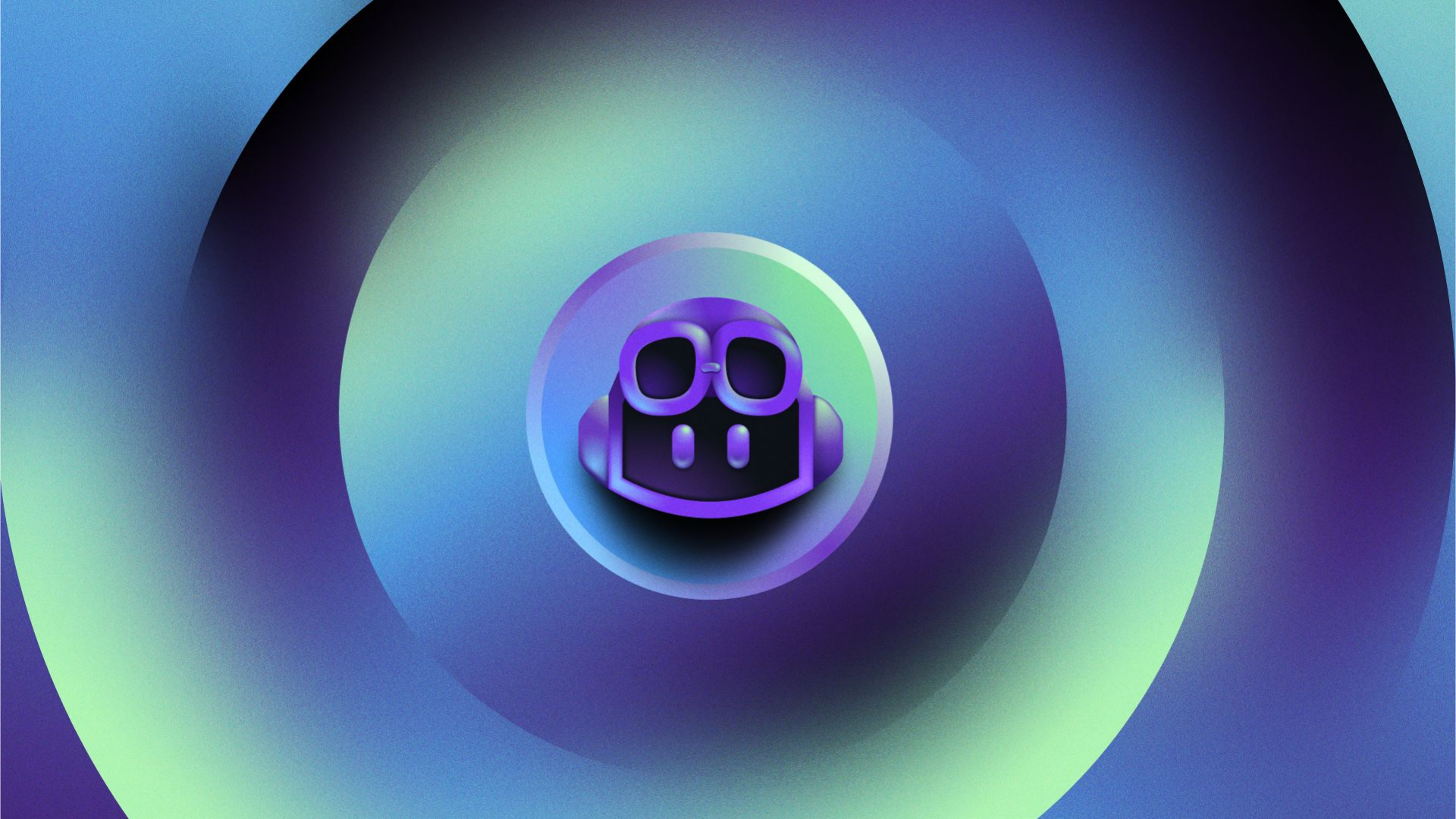
githubnext
githubnext.com

Designing for intelligence

Patterns and practices for making products on top of AI

Data Council · March 2023


Untitled-1
Untitled-1 1
# a function that queries a free webservice to get the weather
def get_forecast(zip_code):
import requests
import json
url = 'http://api.openweathermap.org/data/2.5/weather?zip=
response = requests.get(url)
json_data = json.loads(response.text)
return json_data
1 0
Live Share
Quokka
Wallaby
LF
Python
3.11.2 64-bit
Prettier

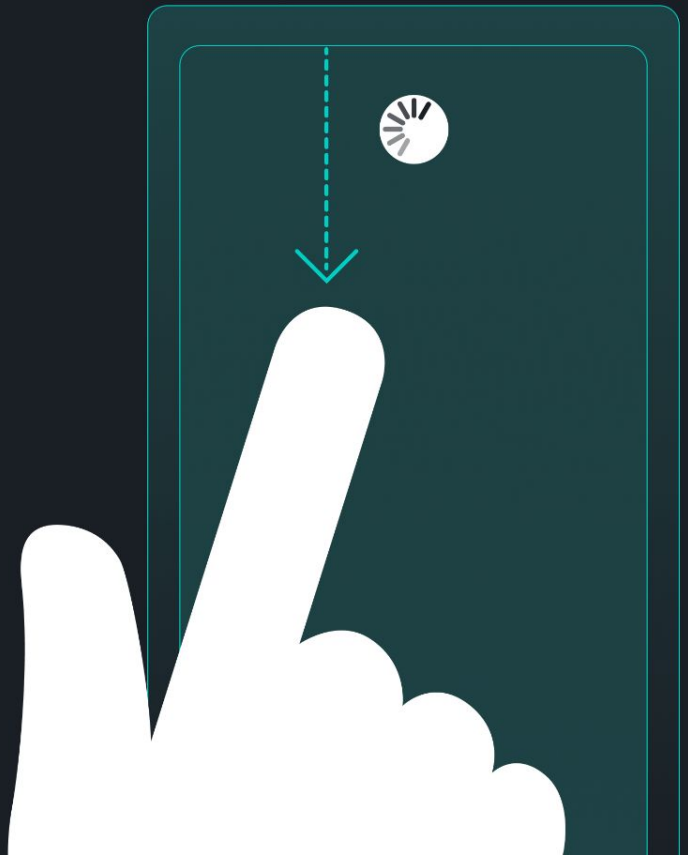


YOU ARE HERE
promising prototype

sit amet, what kind of text am I? Lorem ip

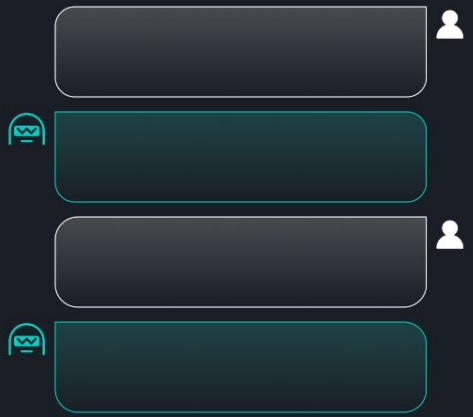
1

User Experience Considerations

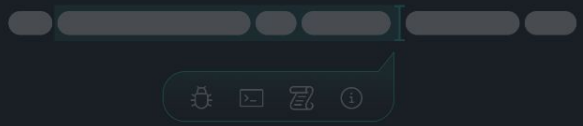


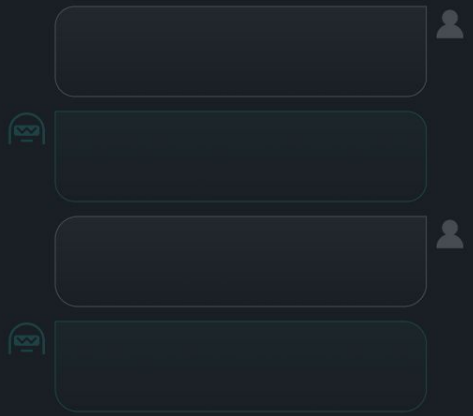
optionality

transformation



iteration

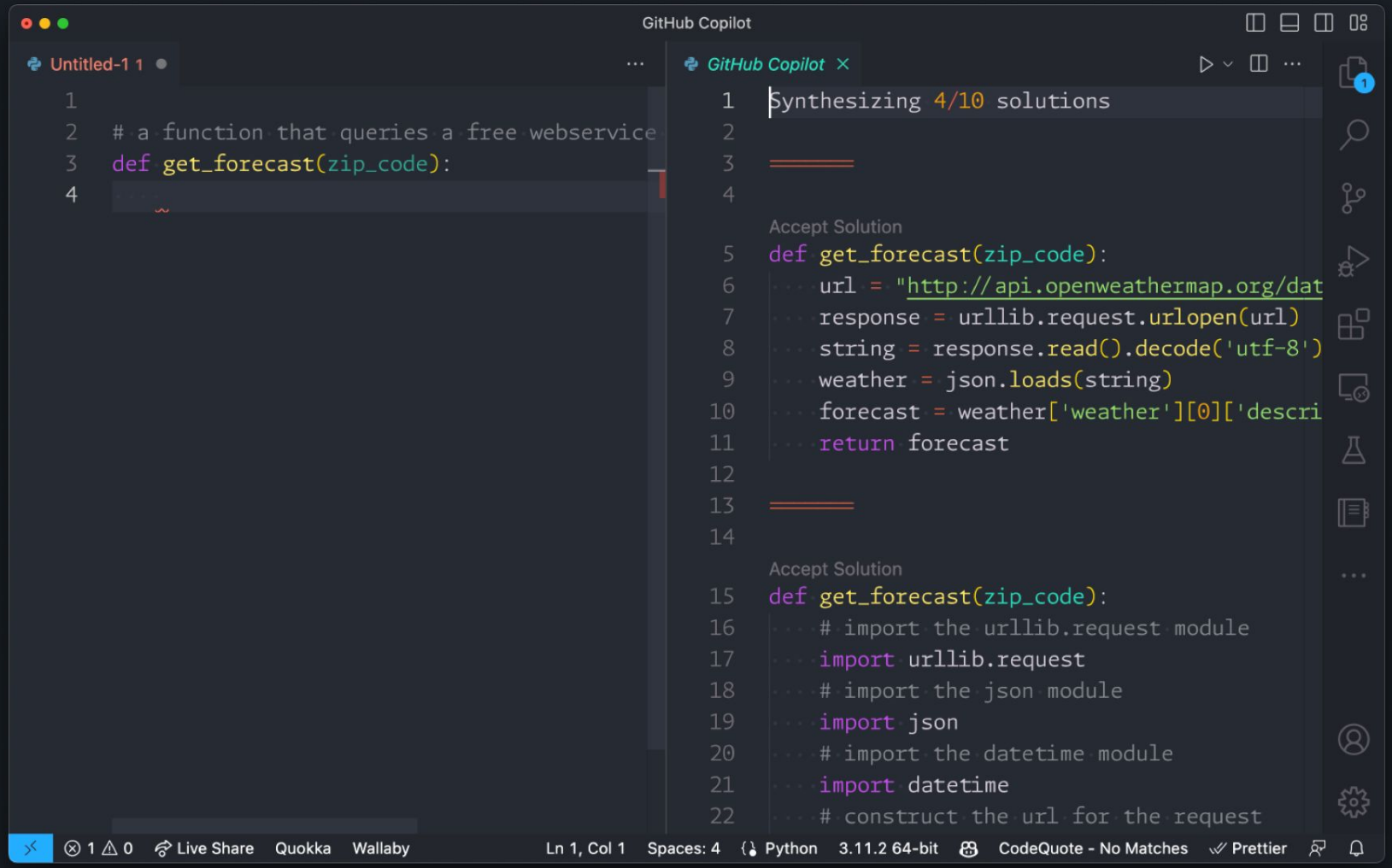


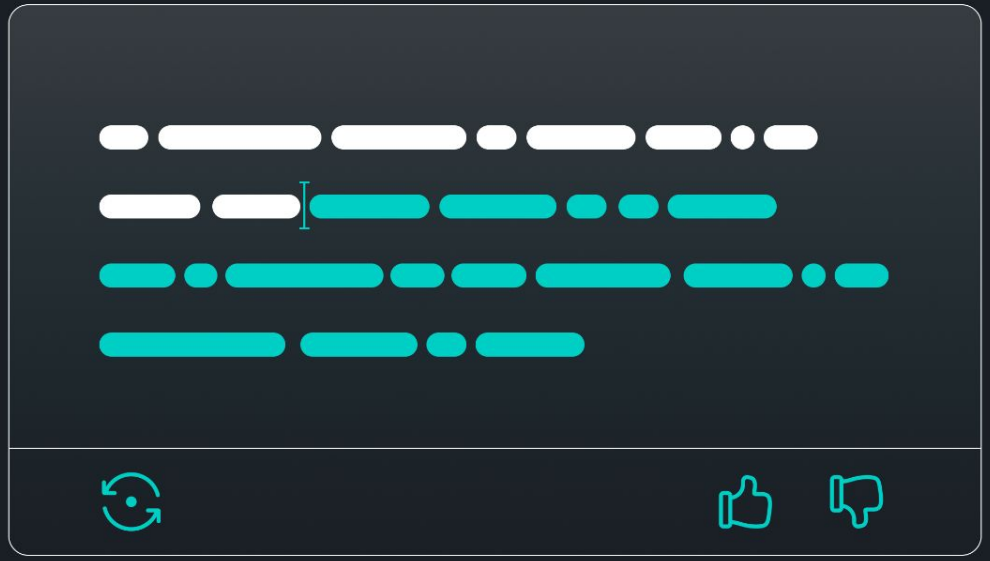


optionality

transformation

iteration


GitHub Copilot
Untitled-1 1
# a function that queries a free webservice
def get_forecast(zip_code):
GitHub Copilot
Synthesizing 4/10 solutions
Accept Solution
def get_forecast(zip_code):
url = "http://api.openweathermap.org/dat
response = urllib.request.urlopen(url)
string = response.read().decode('utf-8')
weather = json.loads(string)
forecast = weather['weather'][0]['descri
return forecast
Accept Solution
def get_forecast(zip_code):
# import the urllib.request module
import urllib.request
# import the json module
import json
# import the datetime module
import datetime
# construct the url for the request
Live Share
Quokka
Wallaby
Ln 1, Col 1
Spaces: 4
Python
3.11.2 64-bit
CodeQuote - No Matches
Prettier



design defensively for

failure today

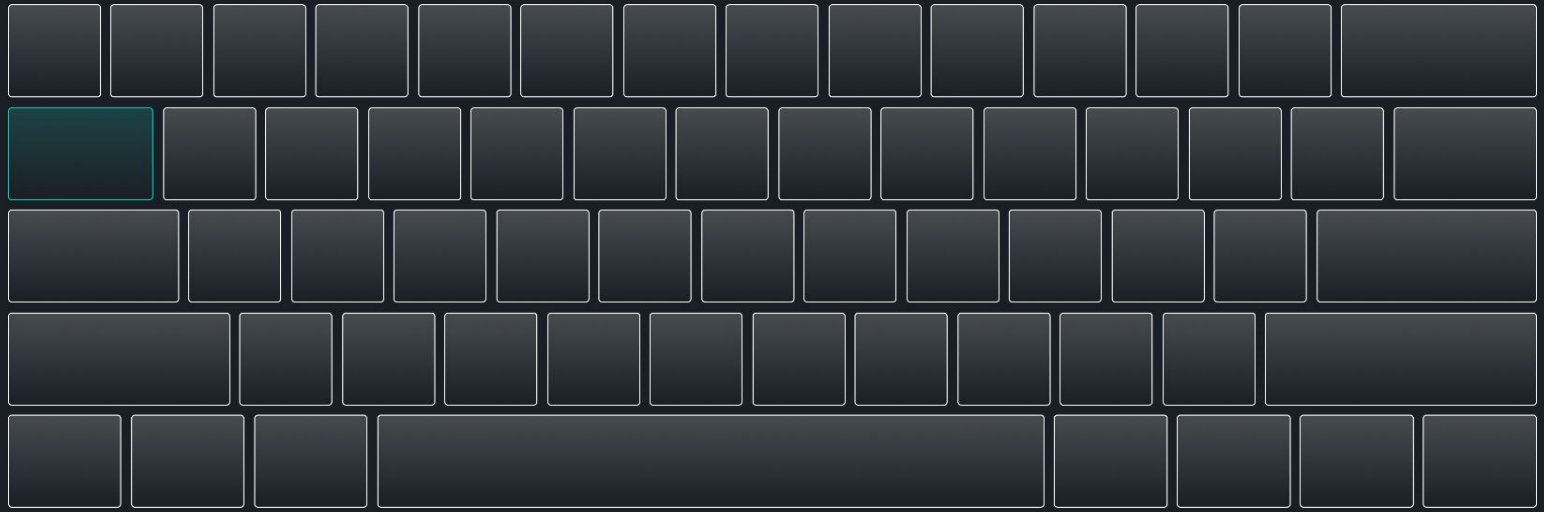
MAKE IT:

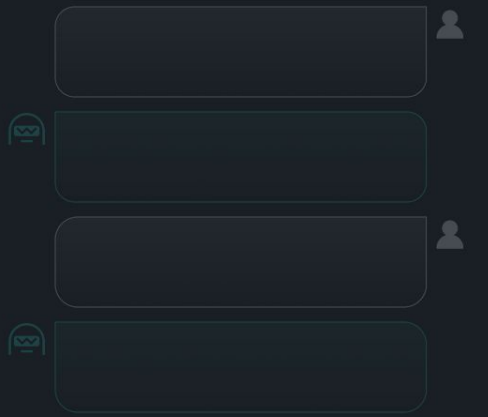
Easy to ignore

Easy to retry

Modeless

Mutable

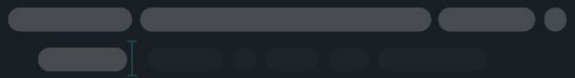


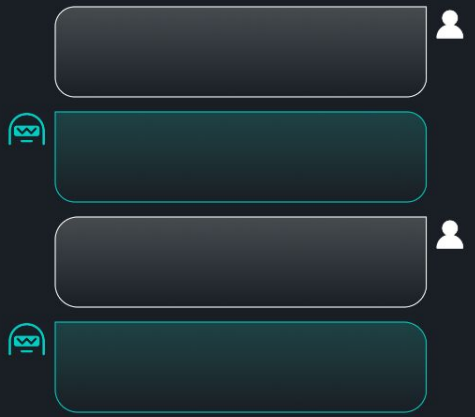


optionality

transformation

iteration





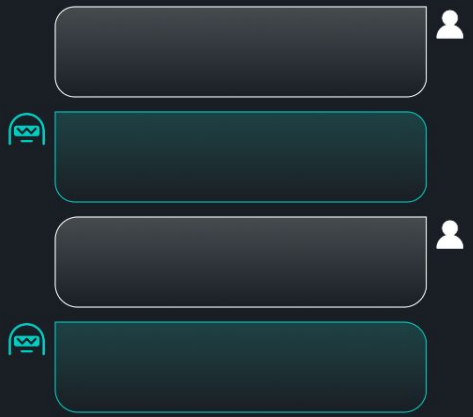
optionality

transformation

iteration

create

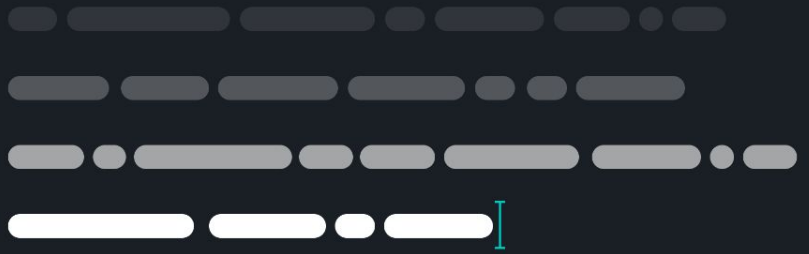
edit



explore & plan

all at once

vs.



streaming

“Dearest LLM, could you perhaps...”

❷

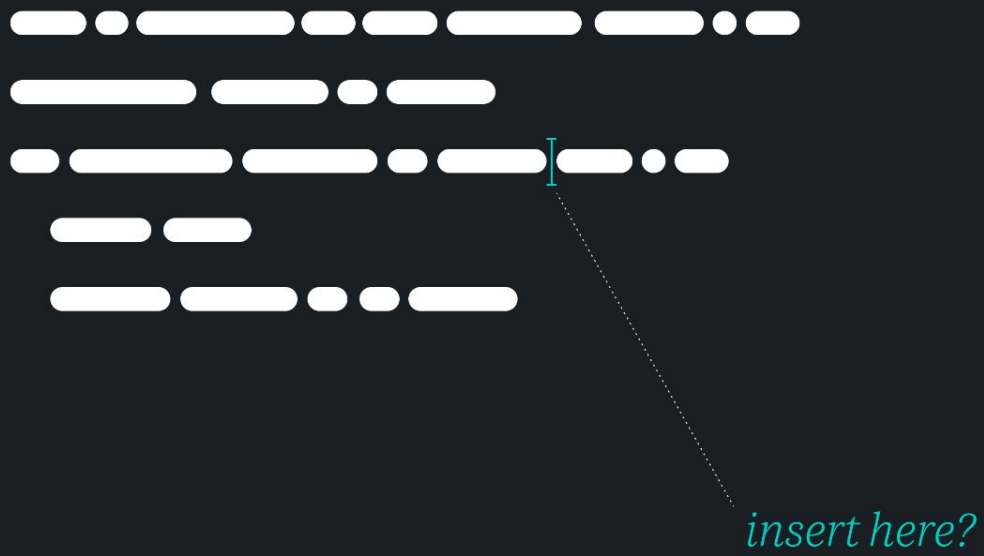
Prompt Crafting/Engineering

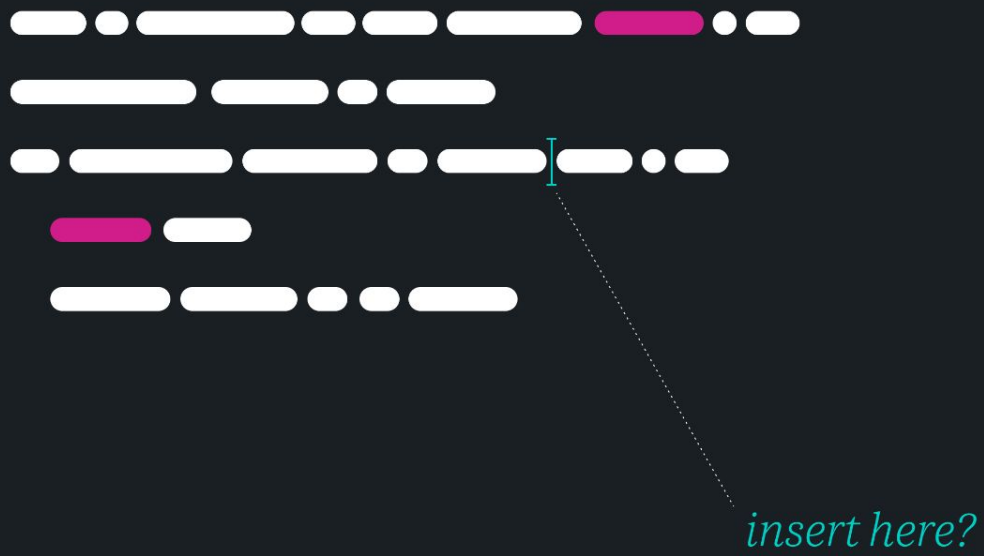
engineering & crafting

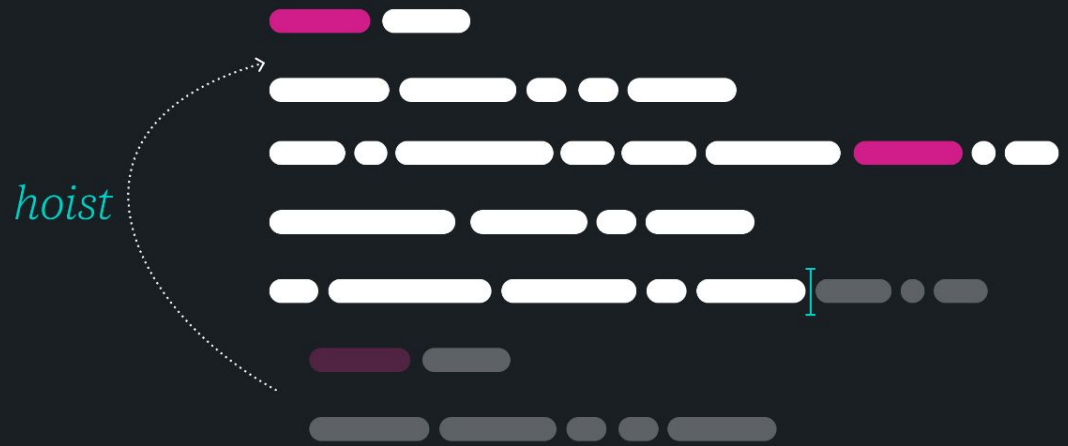
gathering, processing

formulation

append here


insert here?


insert here?


hoist

retrieval

create a “similarity index”

use that index for choosing better context

no fine tuning

4K
8K
32K

“traits”

BAD: … some text with profanities …
GOOD: … rephrased without profanities …

BAD: narrowminded text
GOOD: openminded text

BAD: toxic/imperious feedback
GOOD: constructive criticism

BAD: a perfectly good comment
GOOD: a perfectly good comment

BAD: the user input
GOOD:

multimodel

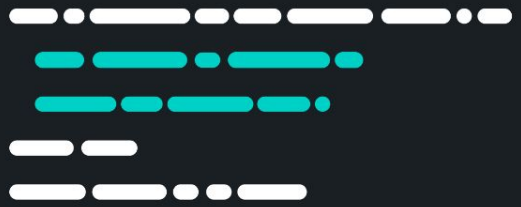
multiroundtrip

“Is it good?”

❸

Metrics & Measurement

1



2

3

more accuracy ≠ more value

YOU ARE HERE
promising prototype

Thank you!

idangazit
idan@vis.social

githubnext
githubnext.com