



# “GenAI: de zéro à démo no-code et low-code”



**Pierre Rondeau**

No-codeur

**Samuel Berthe**

Codeur



# GenAI Nantes



15 événements / an



1 hackathon (Shift)



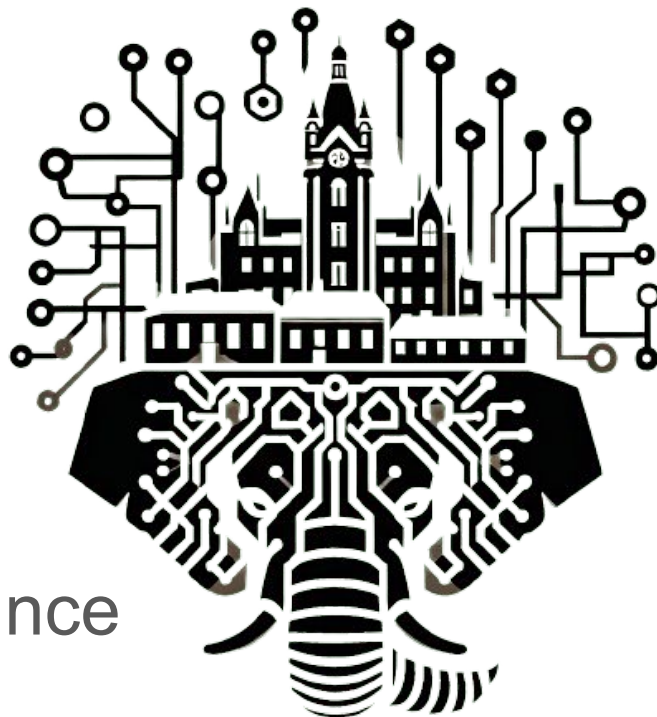
1 workshops



1 communauté de 800p\*



Plus grand meetup de province



\* 8.000p selon le syndicat des llamas 

# SHIFT

## Le Hackathon Gen AI

Santé - Culture - Éducation





Pierre  
Rondeau

No-coder



Samuel  
Berthe

Developer

**Qui fait des projets GenAI  
professionnellement ?**

**Qui fait des side-projets GenAI ?**

**Qui vibe-code ?**

**(GH Copilot, Cursor, Windsurf...)**

# Objectif de ce talk

Vous prouver qu'intégrer un LLM à  
un projet est un jeu d'enfant



# Schedule

- Code + LLM 101
- No-code + LLM 101

# LLM for developers





OPENAI  
ANTHROPIC  
MISTRAL  
LLAMA  
GEMINI  
...

TEXT  
-EMBEDDING

MIDJOURNEY  
SEELAB  
FLUX

SORA  
RUNWAY  
HEYGEN

GLADIA

ELEVENLABS

...



$$\begin{pmatrix} 0 & 0 & 0 & 4 \\ 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 2 \end{pmatrix}$$



# LLM 101

👉 Just write 1 token at a time

👉 The most probable token

👉 No conversational/reasoning/formatting/scheduling capabilities

👉 Only “learned” capabilities with tons of examples

👉 The world knowledge compressed in a model

👉 Frozen at training time

# LLM - improve result quality

## 👉 Prompting

You are an individual who has adopted a healthier lifestyle over the past year, resulting in better physical and mental well-being. Inspired by your journey, a few friends have asked for advice on starting their own health journeys.

Write a message to share in a group chat with interested friends.

The message should outline the steps you took, share some challenges and how you overcame them, and offer to support them as they embark on their own journeys.

Use motivational and empathetic language.

Format output as a JSON: {"message": ""}

Persona - Context - Task - Format - Example - Tone

### Improve an existing prompt ✕

Add a prompt template and describe what you'd like to improve.

This will take 1-2 minutes and use some Claude 3.5 Sonnet credits.

#### Existing prompt template

The prompt improver is designed for prompt templates. Prompt templates require at least one variable marked by `{{variable}}`. These are placeholder values that make your prompt reusable.

System prompt (if any)

User message

Detected variables: -

#### What would you like to improve?

The more detailed the feedback, the more Claude will be able to help.

☐ This prompt will be used with models that have **thinking** enabled

Cancel

Improve prompt

<https://console.anthropic.com>

## Simple prompt to Mistral

```
import os
from mistralai import Mistral

api_key = os.environ["MISTRAL_API_KEY"]
model = "mistral-large-latest"

client = Mistral(api_key=api_key)

response = client.chat.complete(
    model=model,
    messages = [
        {
            "role": "user",
            "content": prompt,
        },
    ],
    stream=False,
)

print(response.choices[0].message.content)
```

## Multi-role conversation

```
response = client.chat.complete(  
    model=model,  
    messages = [  
        {  
            "role": "system",  
            "content": system_input,  
        },  
        {  
            "role": "user",  
            "content": prompt1,  
        },  
        {  
            "role": "assistant",  
            "content": prompt2,  
        },  
        {  
            "role": "user",  
            "content": prompt3,  
        },  
    ],  
)
```



Let's start with a simple problem:

## **Feedback classification**

# LLM - improve result quality

👉 **Zero**-shots prompting

Prompt:

Classify this customer feedback: **“I love being able to chat with support”**

Category:

# LLM - improve result quality

👉 **Single-shots prompting**

Prompt:

Classify this customer feedback: **“I love being able to chat with support”**  
With the following categories: **“hater”, “question”, “feature request”, “bug report”**

Category:

# LLM - improve result quality

👉 **Few-shot prompting**

Prompt:

Classify these customer feedbacks:

Feedback: **“I love being able to chat with support”**

Category: **“Thankful”**

Feedback: **“Fuck off! Stop bothering me with this newsletter”**

Category: **“Hater”**

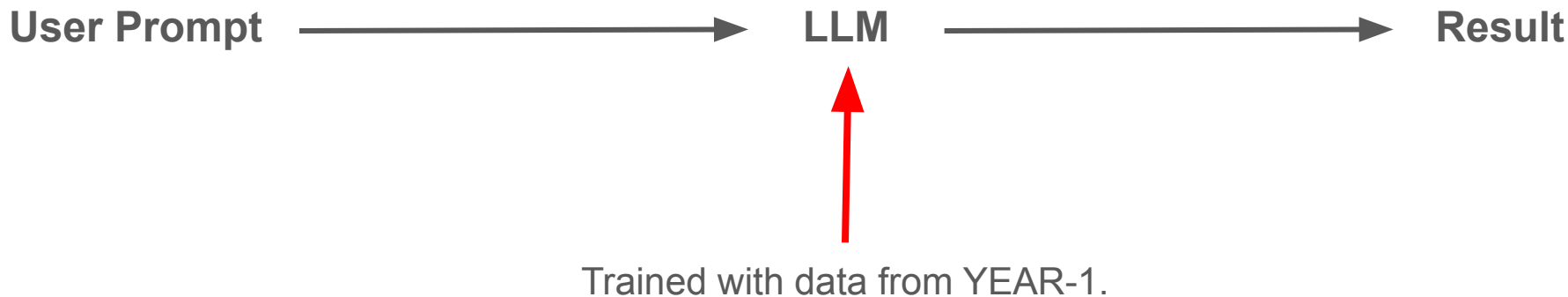
Feedback: **“RAS”**

Category:

# LLM as knowledge base

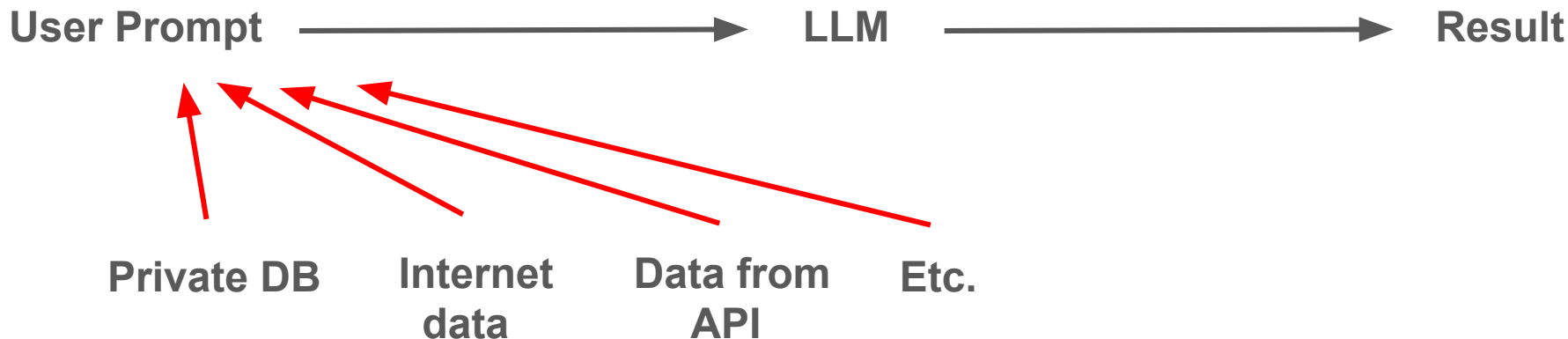


# LLM are immutable



# LLM - Missing knowledge

👉 RAG - Retrieval Augmented Generation



# LLM - Knowledge from private data

👉 RAG - Retrieval Augmented Generation





# LLM - Knowledge from private data

👉 RAG - Retrieval Augmented Generation

**Question in  
Natural  
language**

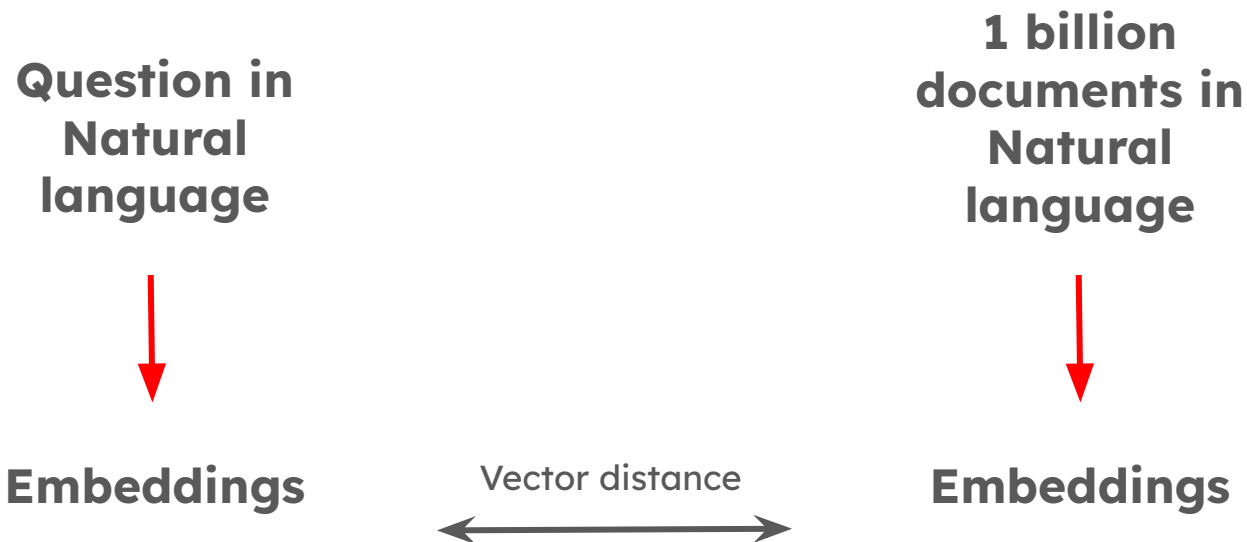
Matching ?



**1 billion  
documents in  
Natural  
language**

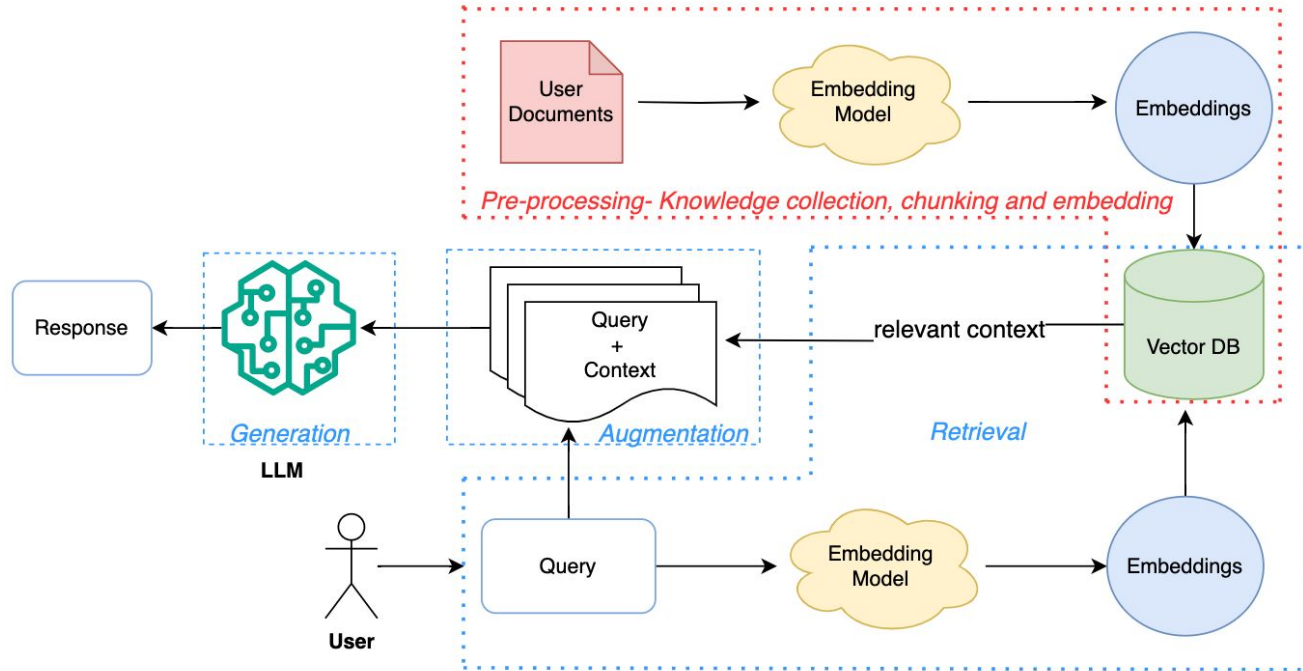
# LLM - Knowledge from private data

👉 RAG - Retrieval Augmented Generation



# LLM - Add knowledge to your prompt

👉 RAG - Retrieval Augmented Generation



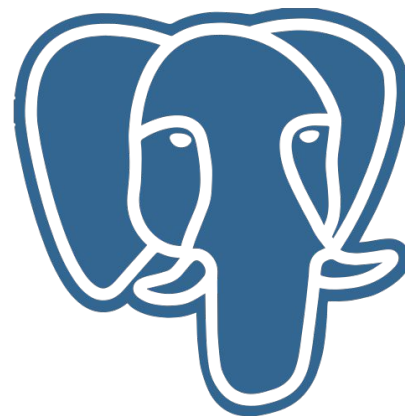
# RAG - Retrieval Augmented Generation

👉 Vector Database



# RAG - Retrieval Augmented Generation

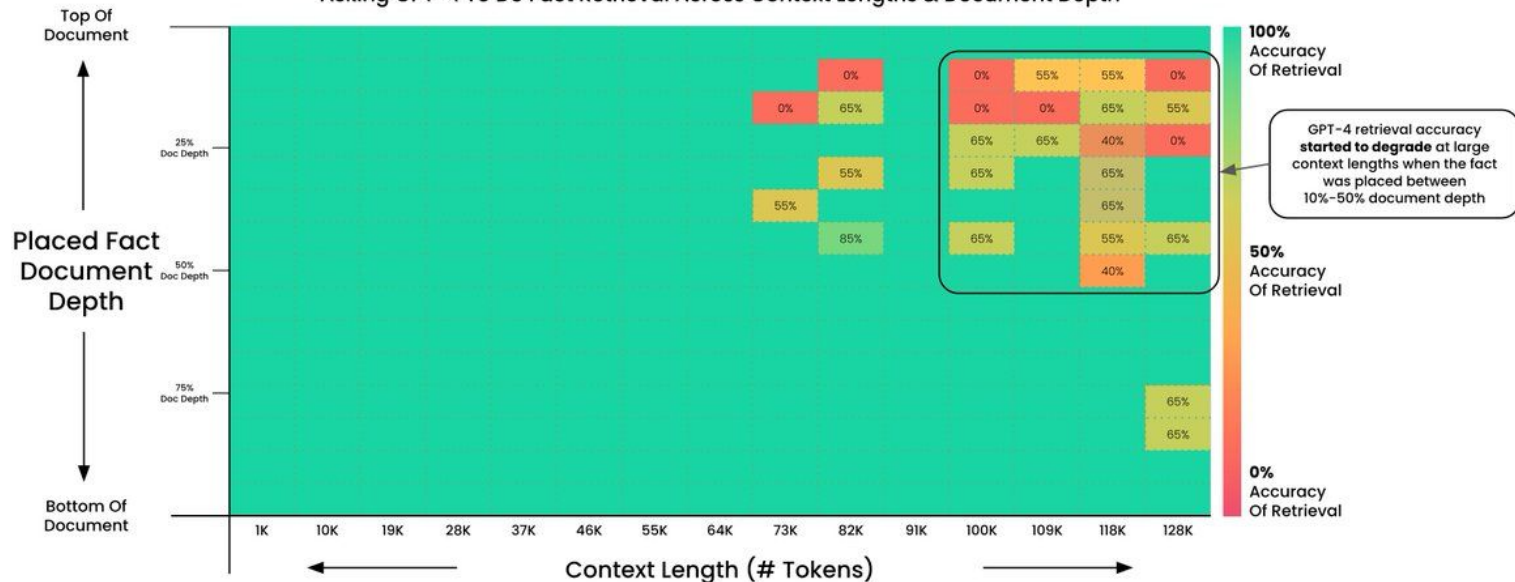
👉 Vector Database



# LLM - Big context windows

## Pressure Testing GPT-4 128K via "Needle In A HayStack"

Asking GPT-4 To Do Fact Retrieval Across Context Lengths & Document Depth



### Goal: Test GPT-4 Ability To Retrieve Information From Large Context Windows

A fact was placed within a document. GPT-4 (1106-preview) was then asked to retrieve it. The output was evaluated for accuracy.

This test was run at 15 different document depths (top > bottom) and 15 different context lengths (1K > 128K tokens).

2x tests were run for larger contexts for a larger sample size.

# LLM - Structured output

Model output 1:

Roses are red, violets are blue.

Model output 2:

```
{  
  "rose": "red",  
  "violet": "blue"  
}
```

# LLM - Structured output

```
class Color(BaseModel):  
    rgb: str  
    name: str  
    variants: list[str]
```

```
response = client.chat.parse(  
    model=model,  
    messages=[  
        {  
            "role": "system",  
            "content": "Extract the right color."  
        },  
        {  
            "role": "user",  
            "content": "Roses are red, violets are:"  
        },  
    ],  
    response_format=Color,  
)  
  
print(response.choices[0].message.parsed)
```

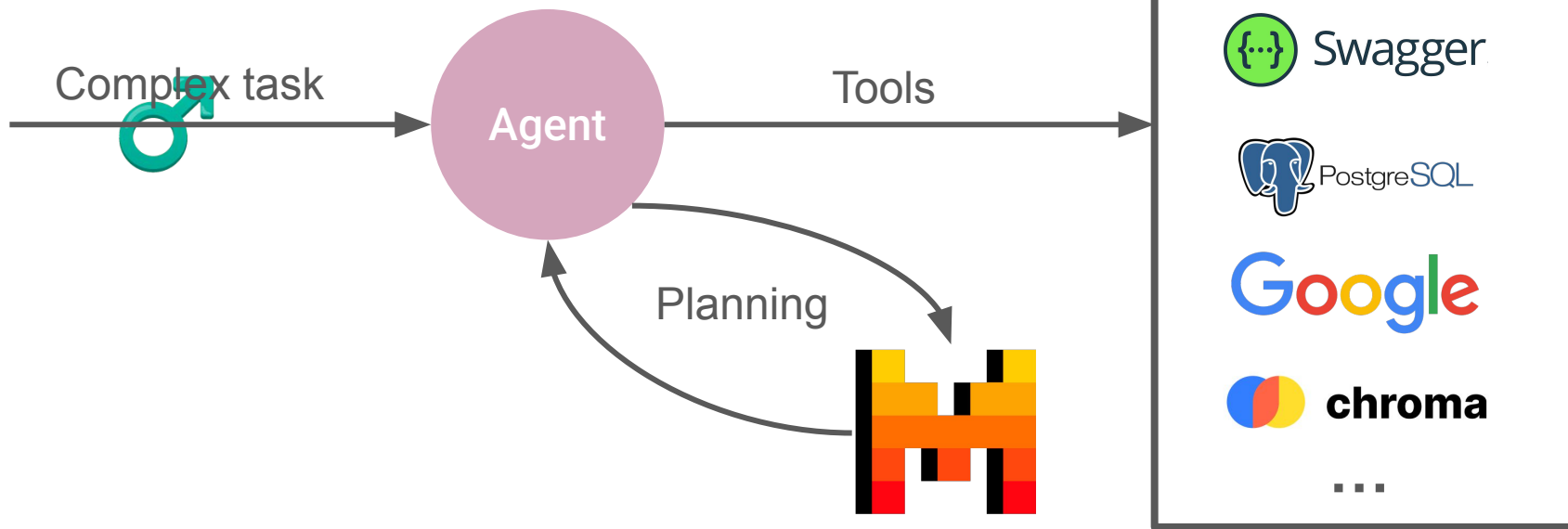


# LLM - Function calling

```
{  
  type: "function",  
  function: {  
    name: "get_current_weather",  
    description: "Get the current weather in a given location",  
    parameters: {  
      type: "object",  
      properties: {  
        location: {  
          type: "string",  
          description: "The city and state, e.g. San Francisco, CA",  
        },  
        unit: { type: "string", enum: ["celsius", "fahrenheit"] },  
      },  
      required: ["location"],  
    },  
  },  
},  
},
```

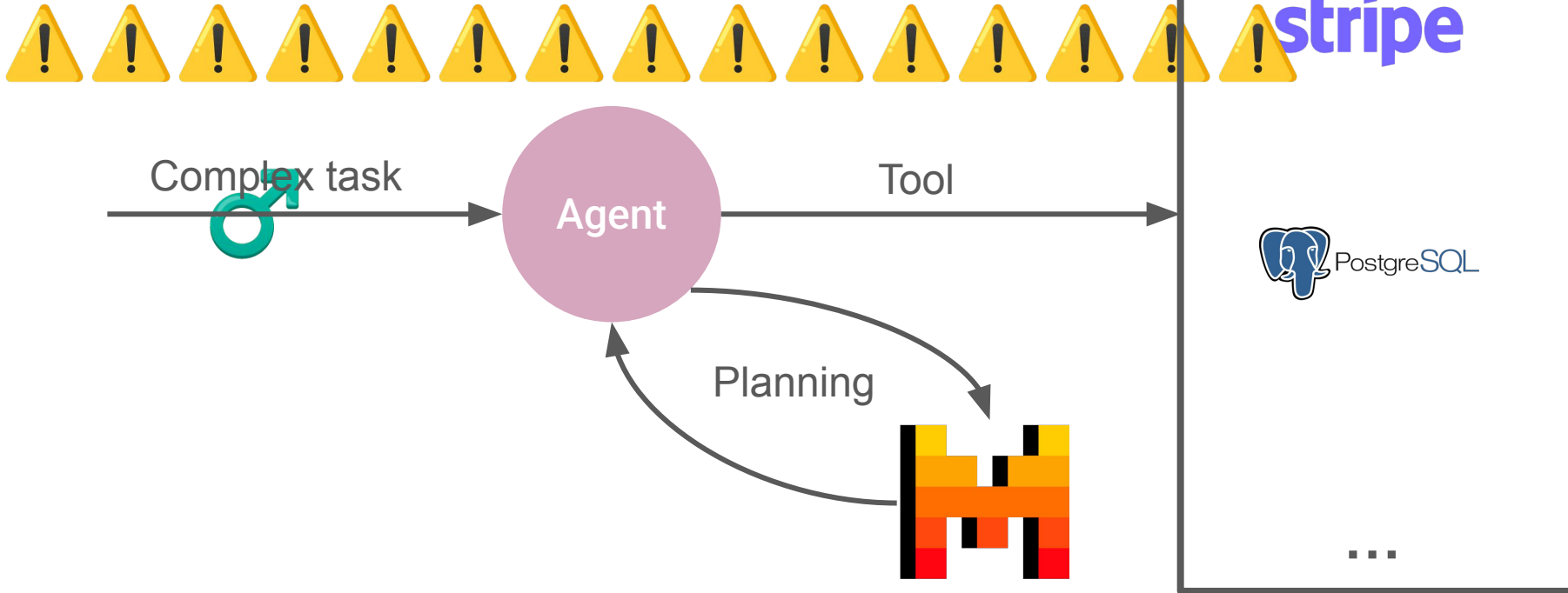
# LLM - Advanced interactions

👉 Agents

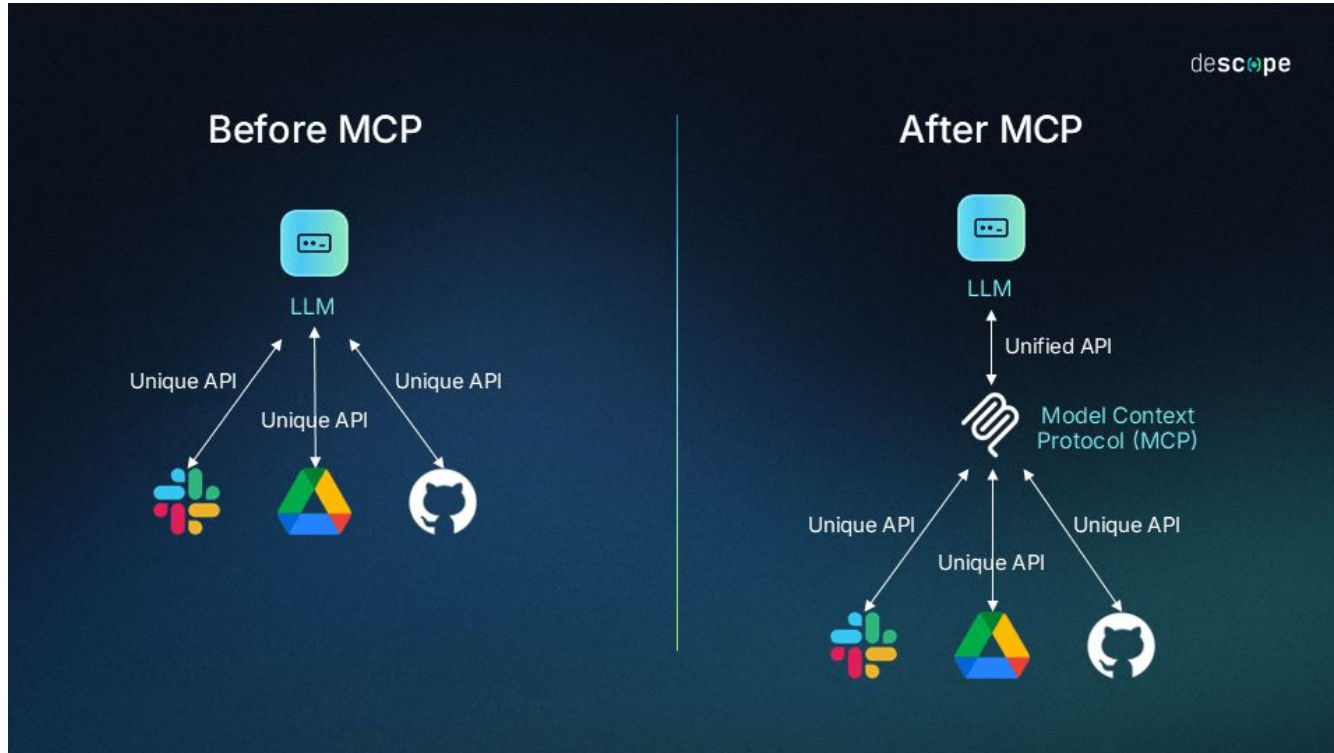


# LLM - Advanced interactions

👉 Agents



# MCP - Model Context Protocol



☒ 0 ☒ 0 ☒ Live Share ☒ Watch ☒ Kubernetes

Ln 1, Col 1 Spaces: 4 UTF-8 LF {} Plain Text 🔍 Ready Rsync: ☒

☑ Select tools that are available to chat 132 Selected OK

☑ search\_nodes Search for nodes in the knowledge graph based on a query

☑ MCP Server: brave-search from Global in Code

☑ brave\_local\_search Searches for local businesses and places using Brave's Local Search AP...

☑ brave\_web\_search Performs a web search using the Brave Search API, ideal for general que...

☑ MCP Server: filesystem from Global in Code ⚙

☑ create\_directory Create a new directory or ensure a directory exists. Can create multiple nes...

☑ directory\_tree Get a recursive tree view of files and directories as a JSON structure. Each en...

☑ edit\_file Make line-based edits to a text file. Each edit replaces exact line sequences with ne...

☑ get\_file\_info Retrieve detailed metadata about a file or directory. Returns comprehensive inf...

☑ list\_allowed\_directories Returns the list of directories that this server is allowed to access. ...

☑ list\_directory Get a detailed listing of all files and directories in a specified path. Results clea...

☑ move\_file Move or rename files and directories. Can move files between directories and rena...

☑ read\_file Read the complete contents of a file from the file system. Handles various text enco...

🐼

With Copilot

ent Mode

files in **agent mode**. Copilot will automatically use multiple requests to pick files to edit, run terminal commands, and iterate on errors.

Copilot is powered by AI, so mistakes are possible.  
Review output carefully before use.

📎 or type # to attach context

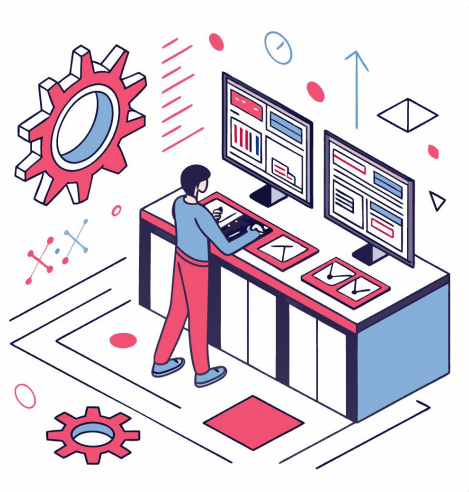
📎 Add Context... ☒ Untitled-1 Current file 🔍

Edit files in your workspace in agent mode

🔊 🔇 Agent ▾ GPT-4.1 ▾ ▶ ▾

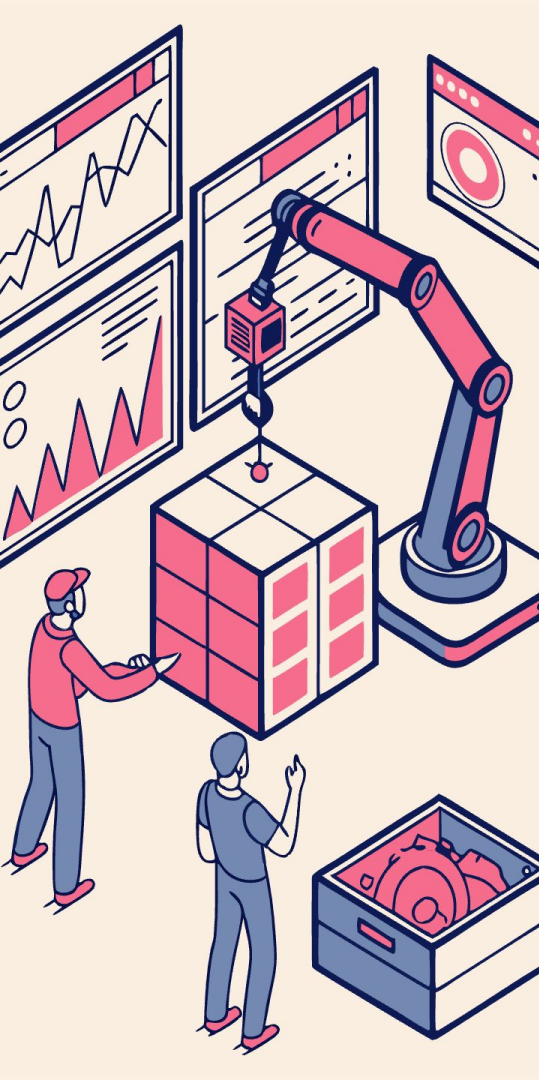
# **Toolchain pour no-codeurs**





# **NoCode + IA : Comment accélérer vos projets**

Et si je vous montrais comment aller 10x plus vite sans coder ?



# Contexte & Problème

1

**Un max de contraintes**

*Temps, ressources, compétences*

2

**L'IA est puissante, mais demande de l'orchestration**

3

**Le NoCode & l'IA permettent d'aller 10x plus vite**

*Et d'avoir un MVP fonctionnel en quelques heures*



# 3 Clés pour réussir un projet IA en NoCode

1

**MVP ultra-réduit**

**Ne partez pas trop large !** → Définissez **UN SEUL** problème à résoudre et concentrez-vous dessus.

# 3 Clés pour réussir un projet IA en 48h

1

## **MVP ultra-réduit**

**Ne partez pas trop large !** → Définissez **UN SEUL** problème à résoudre et concentrez-vous dessus.

2

## **Toolchain optimisée**

**Utilisez les bons outils dès le début.** → **IA + NoCode** vous permet d'avoir un prototype **opérationnel en quelques heures.**

# 3 Clés pour réussir un projet IA

1

## **MVP ultra-réduit**

**Ne partez pas trop large !** → Définissez **UN SEUL** problème à résoudre et concentrez-vous dessus.

2

## **Toolchain optimisée**

**Utilisez les bons outils dès le début.** → **IA + NoCode** vous permet d'avoir un prototype **opérationnel en quelques heures**.

3

## **Tester rapidement**

**Un prototype imparfait est mieux qu'un projet parfait jamais livré.** → Mettez une première version entre les mains des utilisateurs en quelques heures.

# Outils clés



## **Automatisation & Backend**

**Make / n8n** → Connectez vos outils et automatisez tout sans coder.

**Supabase / Airtable / Notion** → Base de données facile pour gérer votre projet.

# Outils clés



## Automatisation & Backend

**Make / n8n** → Connectez vos outils et automatisez tout sans coder.

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## IA

**GPT, Claude, Mistral..** → Génération, analyse, etc.

**Gladia** → Convertir l'**audio / la vidéo** → **en texte** ET en temps réel.

# Outils clés



## Automatisation & Backend

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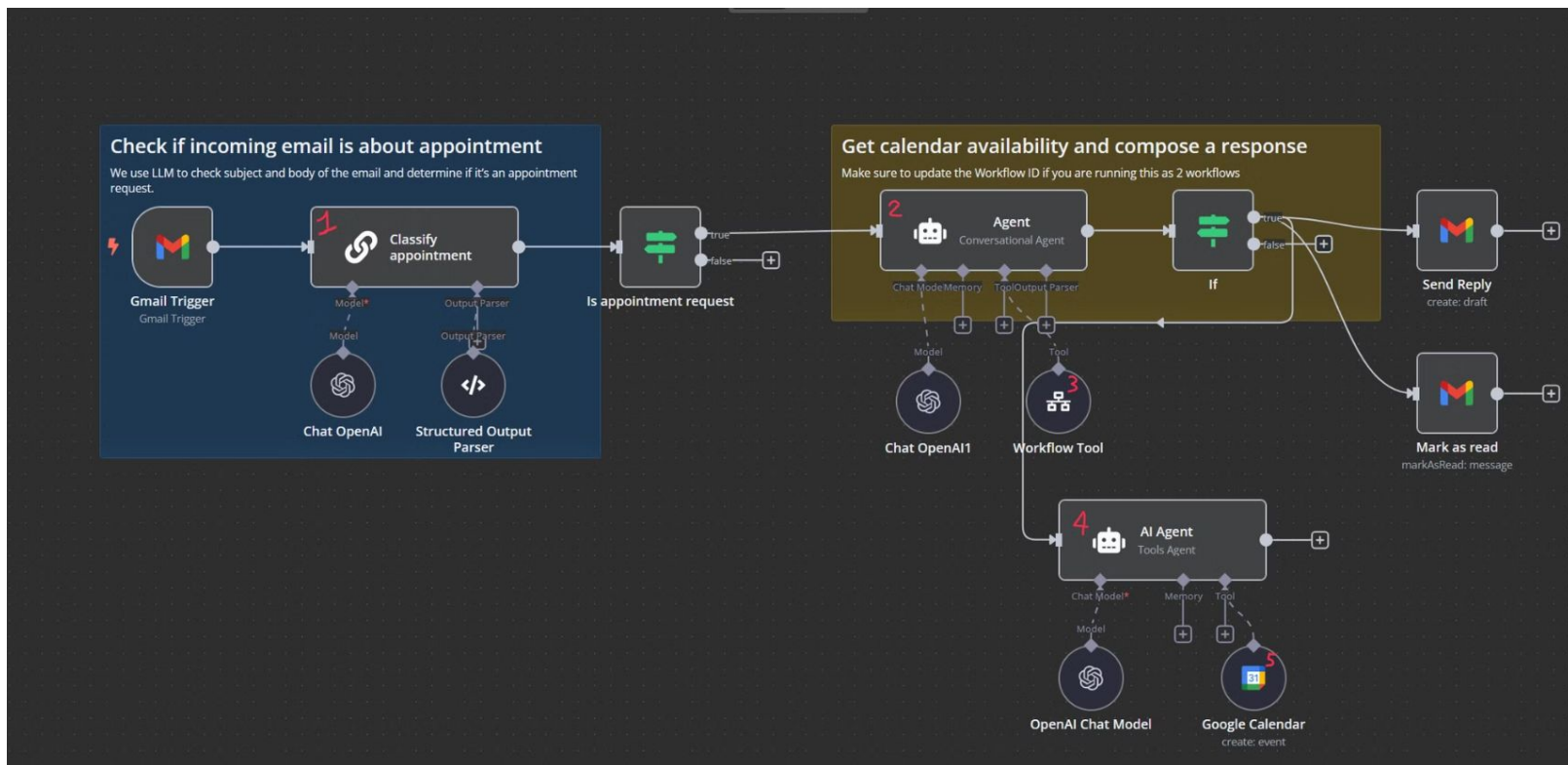
## Interfaces & Prototypage

**Lovable / Bolt / Windsurf / Softr** →

Construire une interface sans mettre les mains dans le cambouis.

**Tally / Typeform** → Collecter facilement des inputs utilisateurs.

# Agent IA sur n8n - Prise de rdv auto



# Conclusion

**1**

## **NoCode + IA**

C'est le moyen le plus rapide  
d'avoir un projet fonctionnel

**2**

## **Un MVP QUI MARCHE > Un projet parfait**

Commencez simple et améliorez  
au fur et à mesure.

**3**

## **Adoptez les bons outils Et expérimentez rapidement.**



# Question ?



**La toolbox minimaliste →**



**← Slides**

**[youtube.com/@GenerativeAIFrance](https://youtube.com/@GenerativeAIFrance)**



# “Intègre un assistant vocal dans ta webapp”



**Godefroy de Compreignac**

CEO @Lonestone  
Founder @Raconte.ai



**11 juin 2025 à 19h**



10 Rue Magdeleine, 44200 Nantes

chez



## “Workshop: Ensorcelle ton IDE. De zéro à démo”



CURSOR

Agent mode, rules, MCP...



**Maxime Courant**

Consultant et Développeur en Gen AI



**9 juillet** 2025 à 18h30



2 Pl. Louis Daubenton, 44100 Nantes

chez

**{EPITECH}**  
LEARN DIFFERENT\*