

vienna
••--• -- •---•
calling

Building AI Agents

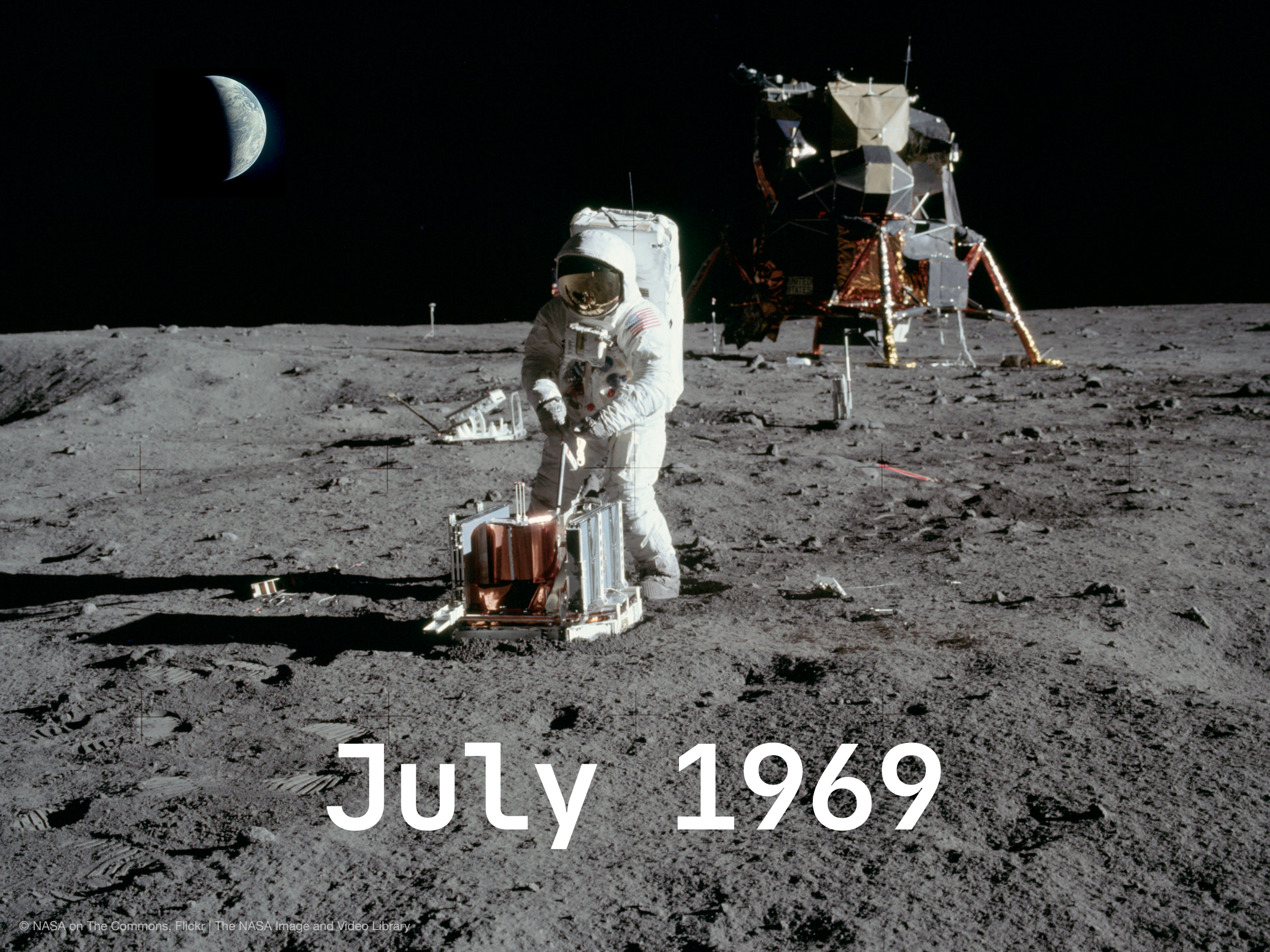
with n8n and FileMaker

Marcel Moré



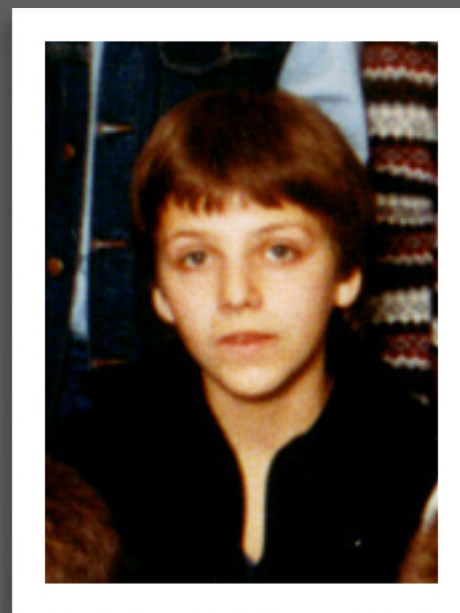


Quick rewind . . .

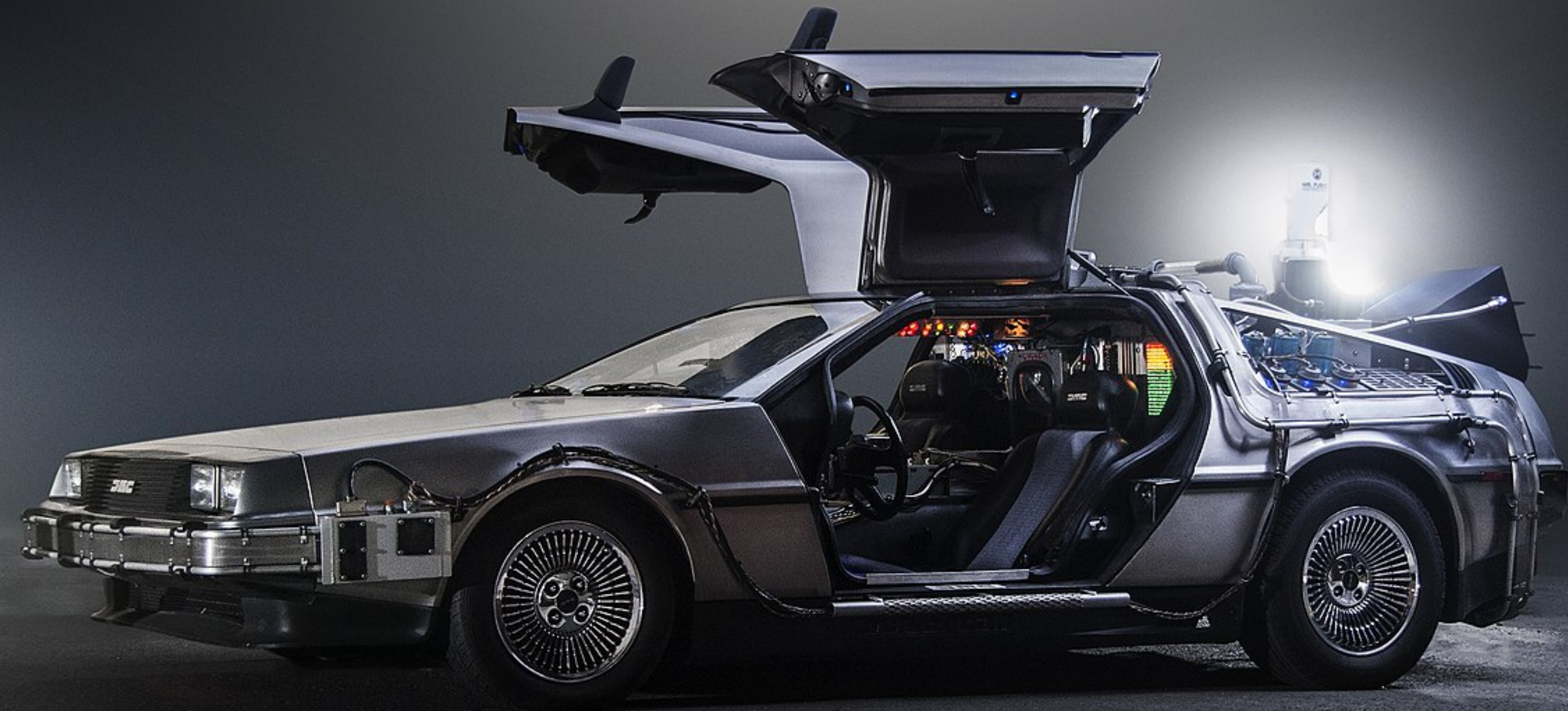


July 1969





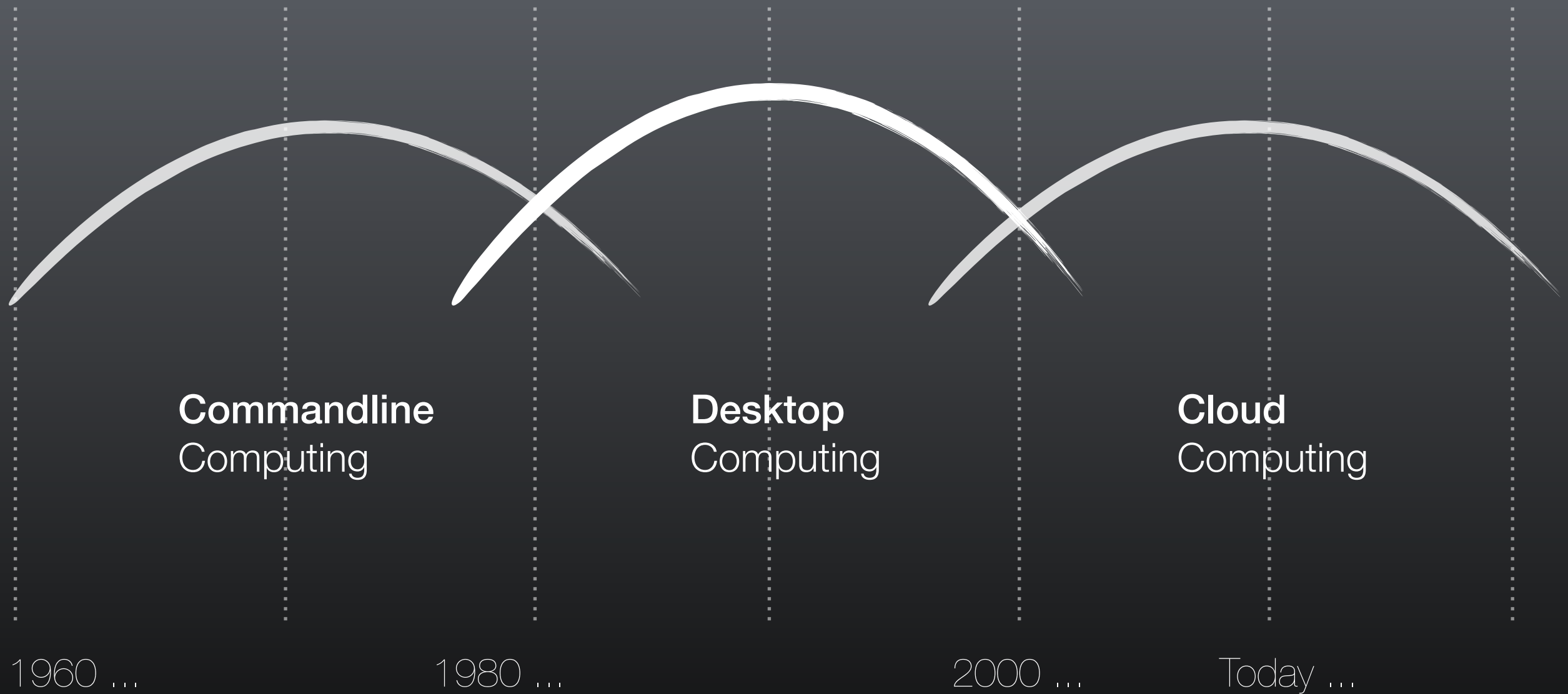
1984



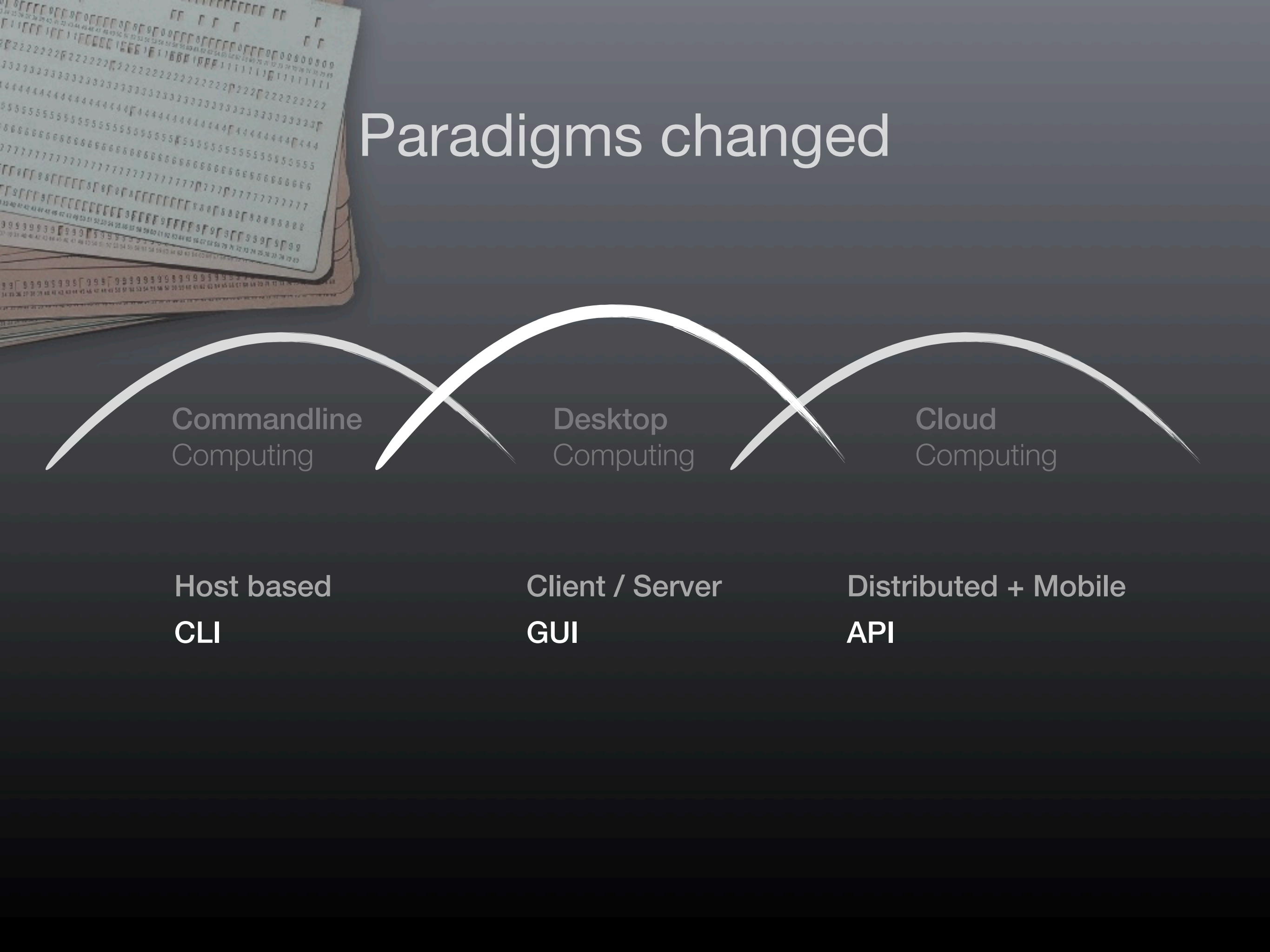
The Future...

**What happened
since?**

Cycles of IT development



Paradigms changed



The diagram illustrates the progression of computing paradigms. It features three overlapping arches that represent the transition from one paradigm to the next. The first arch connects 'Commandline Computing' to 'Desktop Computing'. The second arch connects 'Desktop Computing' to 'Cloud Computing'. The third arch connects 'Cloud Computing' to 'Distributed + Mobile'. Below each arch, the corresponding paradigm is listed along with its primary interface: CLI for Commandline, GUI for Desktop, and API for Cloud/Distributed + Mobile. In the top-left corner, there is a stack of old, punch-card style data sheets, symbolizing legacy computing methods.

Commandline
Computing

Desktop
Computing

Cloud
Computing

Host based
CLI

Client / Server
GUI

Distributed + Mobile
API

Paradigms changed

Commandline
Computing

Desktop
Computing

Cloud
Computing

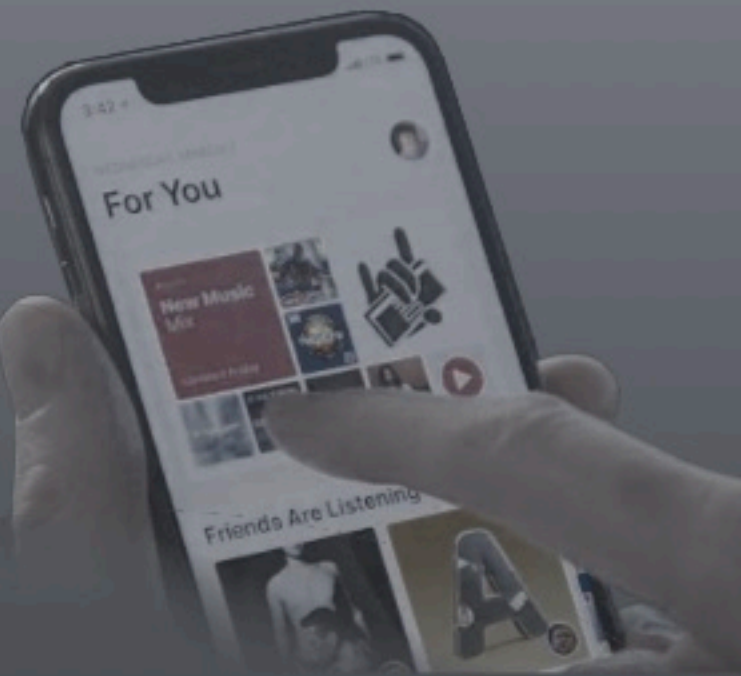
Host based
CLI

Client / Server
GUI

Distributed + Mobile
API



Paradigms changed



Commandline
Computing

Desktop
Computing

Cloud
Computing

Host based
CLI

Client / Server
GUI

Distributed + Mobile
API

Agents....

Commandline
Computing

Desktop
Computing

Cloud
Computing



1947



1969



1987



2014

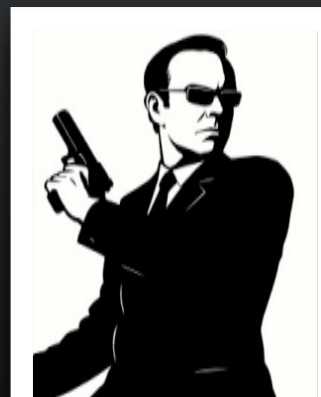
the next Aera

Commandline
Computing

Desktop
Computing

Cloud
Computing

AI
Agents





AI Magic

getting ahead of the Hype ...

✨✨ RAG



Agents



AI Magic



MCP



Integrations



Vibe Coding

Intro

About...

- Self-employed as developer and information designer for 37 years
- **FileMaker** enthusiast since Version 2
- Specializes in customized business solutions for clients in industry, trade, marketing
- Host of FileMaker Usergroup Braunschweig (Germany)
- Author and Speaker for FileMaker related topics



Marcel Moré



<https://imarcel.net>

Presentations...

2011 FileMaker als Multitalent für komplexe Schnittstellen

2012 100% automatisierte Katalog-Produktion

2013 Entwickler-Werkzeuge

2013 Das Matroschka Prinzip

2015 The Power of JavaScript

2016 Dojo kun for the Martial Art of Programming

2016 The Power of SVG

2021 FileMaker and Node-Red

2021 Building a FileMaker-Server Dashboard with Node-Red

2022 Die Zukunft von FileMaker

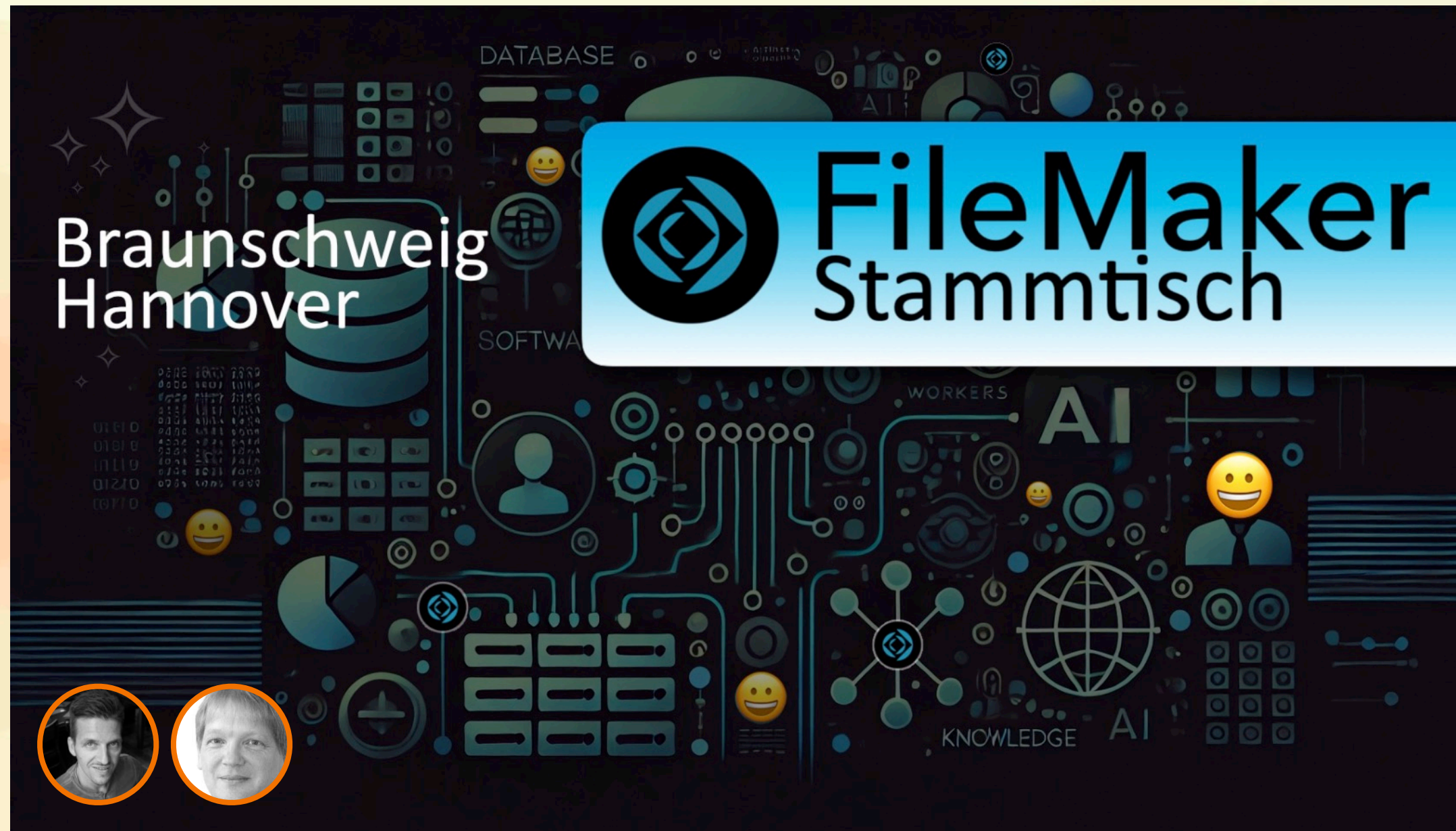
2023 Claris Platform Update – The Bottom Line

2024 Integrating DuckDB

2024 Integration DuckDB with FileMaker (Part 2)



Monthly meetup...



100+ hosted events since 2015

<https://fm-stammtisch.de/>



n8n



- »node nation«
- visual LowCode Plattform
- Startup from Berlin
- founded 5 years ago by Jan Oberhauser
- lately got viral as »LowCode AI«
- tons of YouTube Videos with AI Hype...



- 1000+ Integrations (incl. FileMaker)
- 2000+ Workflow Templates
- 100.000 GitHub Stars ★
- great Docs + broad Community
- Cloud Service + On-Prem
- free Self Hosting available
- Docker Image up and running in 5 mins



- ready made Nodes for AI Agents
- all State of the Art Models available
OpenAI, Claude, Gemini, Mistral, Ollama
- really clever Integration of LangChain!
- Support for Vector Stores:
Qdrant, Pinecone, Supabase, ...
- Self-hosted AI starter kit



n8n

demo

Setup

RAG

Basics

Agents

Integrations

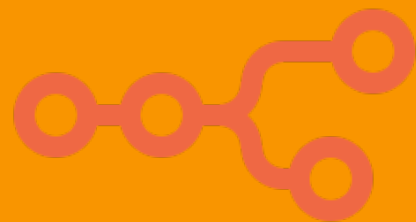
Examples

Workflow

MCP

How *it* works

Foundation



n8n

JSON
Objects

JSON
Objects

JSON
Objects

JSON
Objects

NodeJS Pipeline

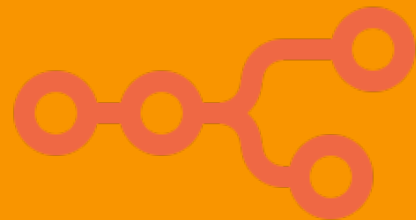
local
Storage

1st Incarnation

» Workflows «

Trigger

WebHooks



n8n

JSON
Objects

JSON
Objects

JSON
Objects

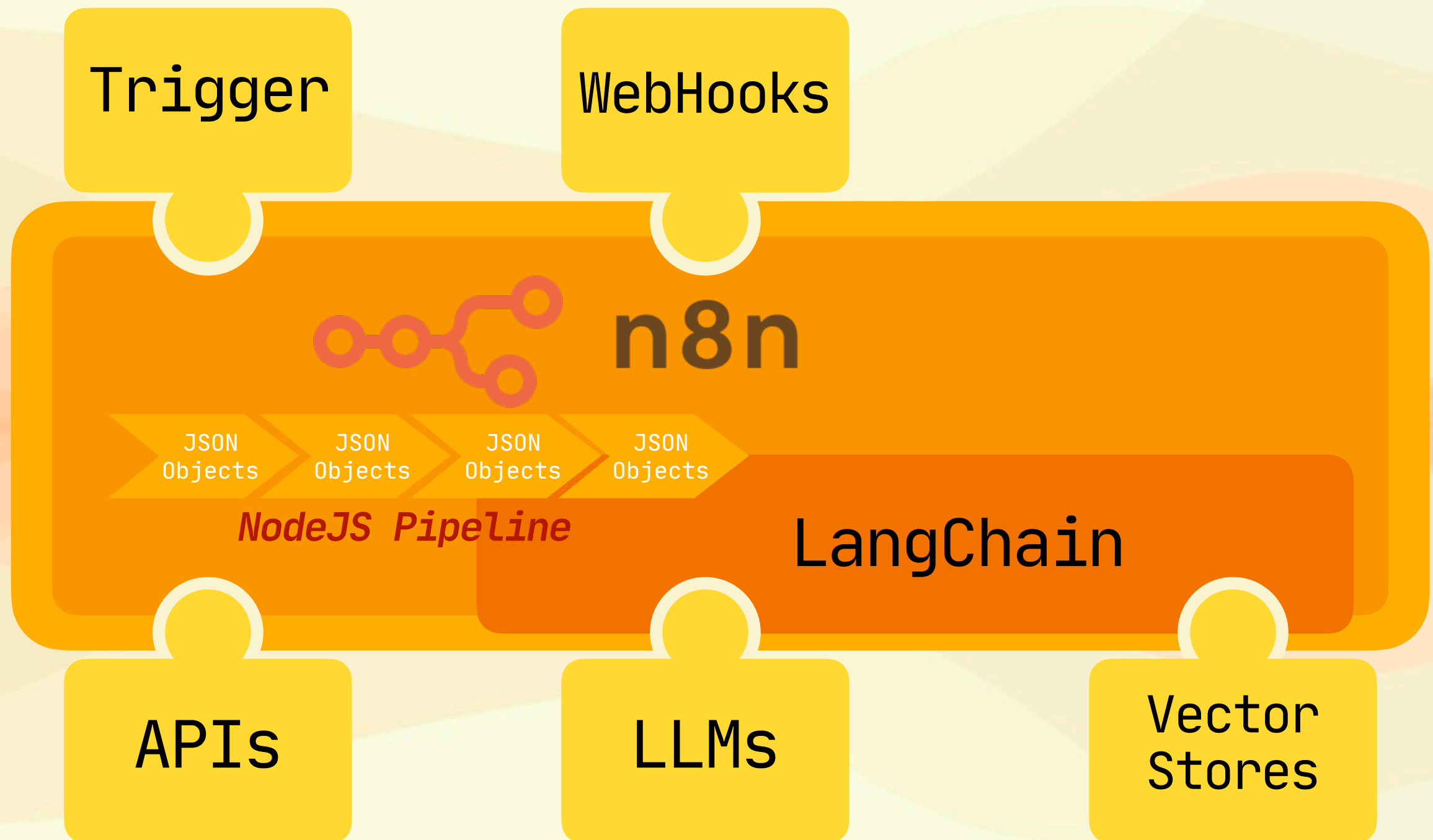
JSON
Objects

NodeJS Pipeline



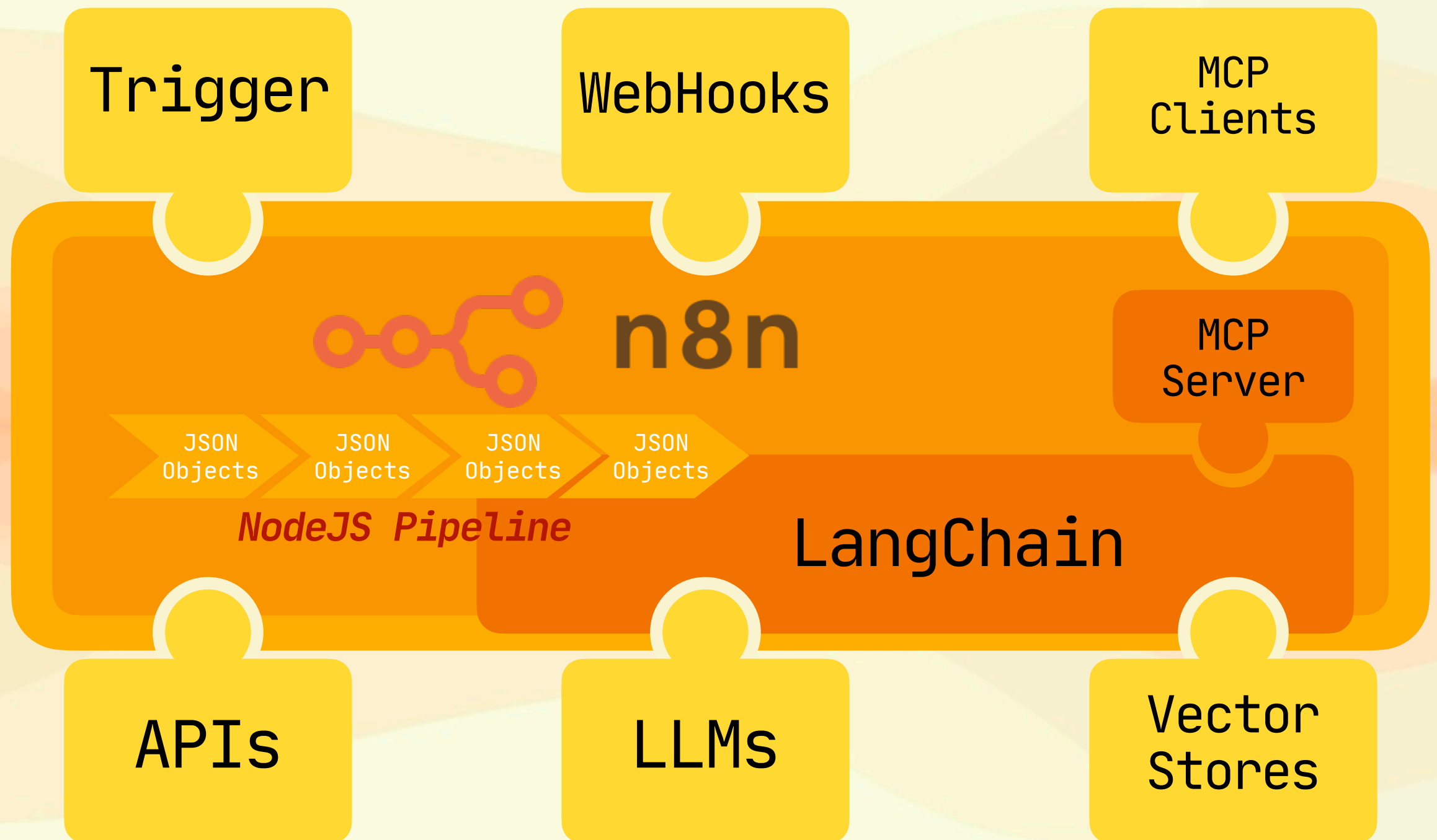
APIs

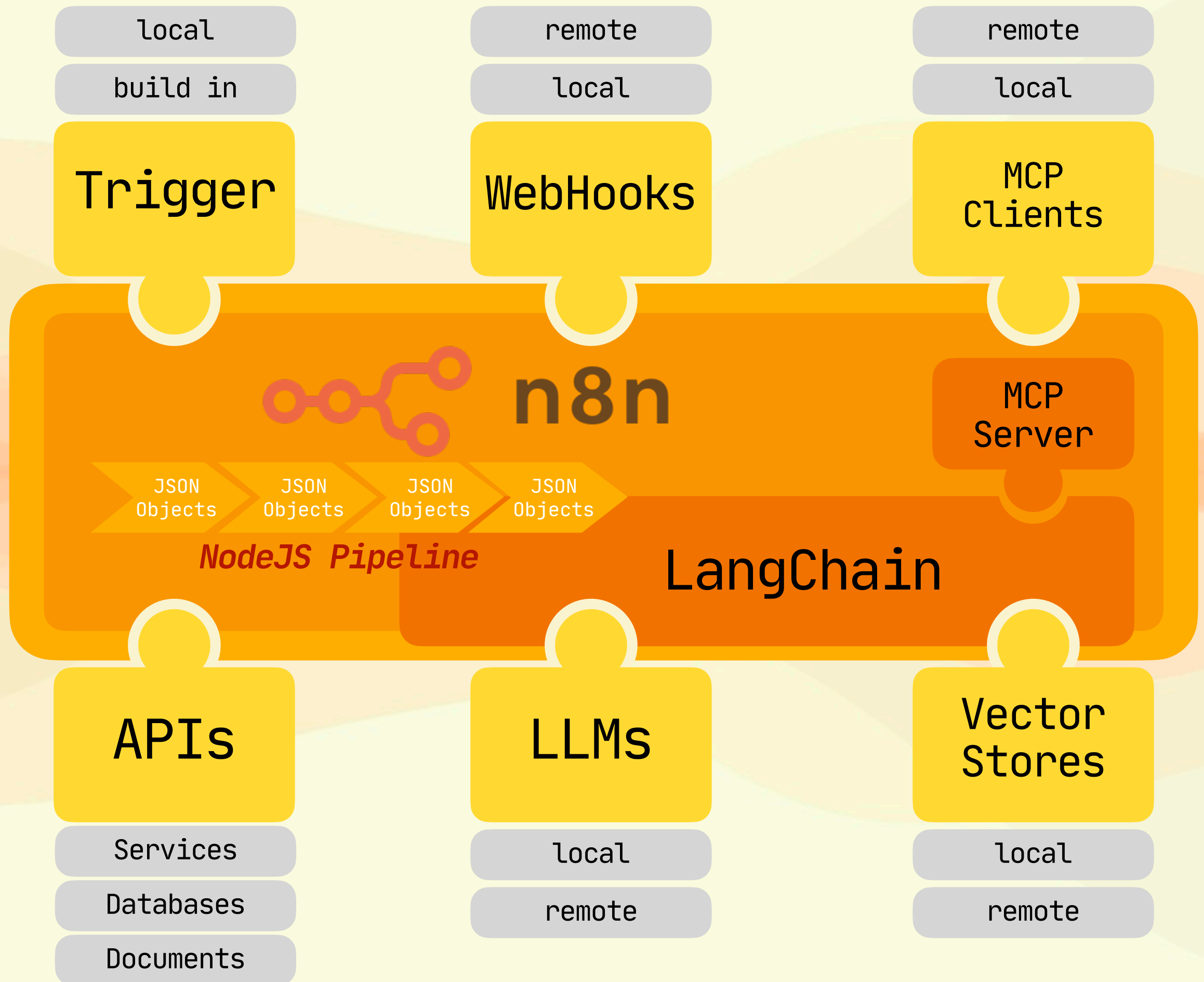
infinite Playground of LEGO Bricks....



3rd Incarnation

» AI Wrapper «





local

build in

Trigger

remote

local

WebHooks

remote

local

MCP
Clients

n8n

Awesome!

MCP
Server

LangChain

APIs

Services

Databases

Documents

LLMs

local

remote

Vector
Stores

local

remote

Cooking up an Agent

Ingredients...

 Integration-Platform (n8n)

 Workflows (n8n)

 Tools

 LLMs

 Prompts !!!

 Interface



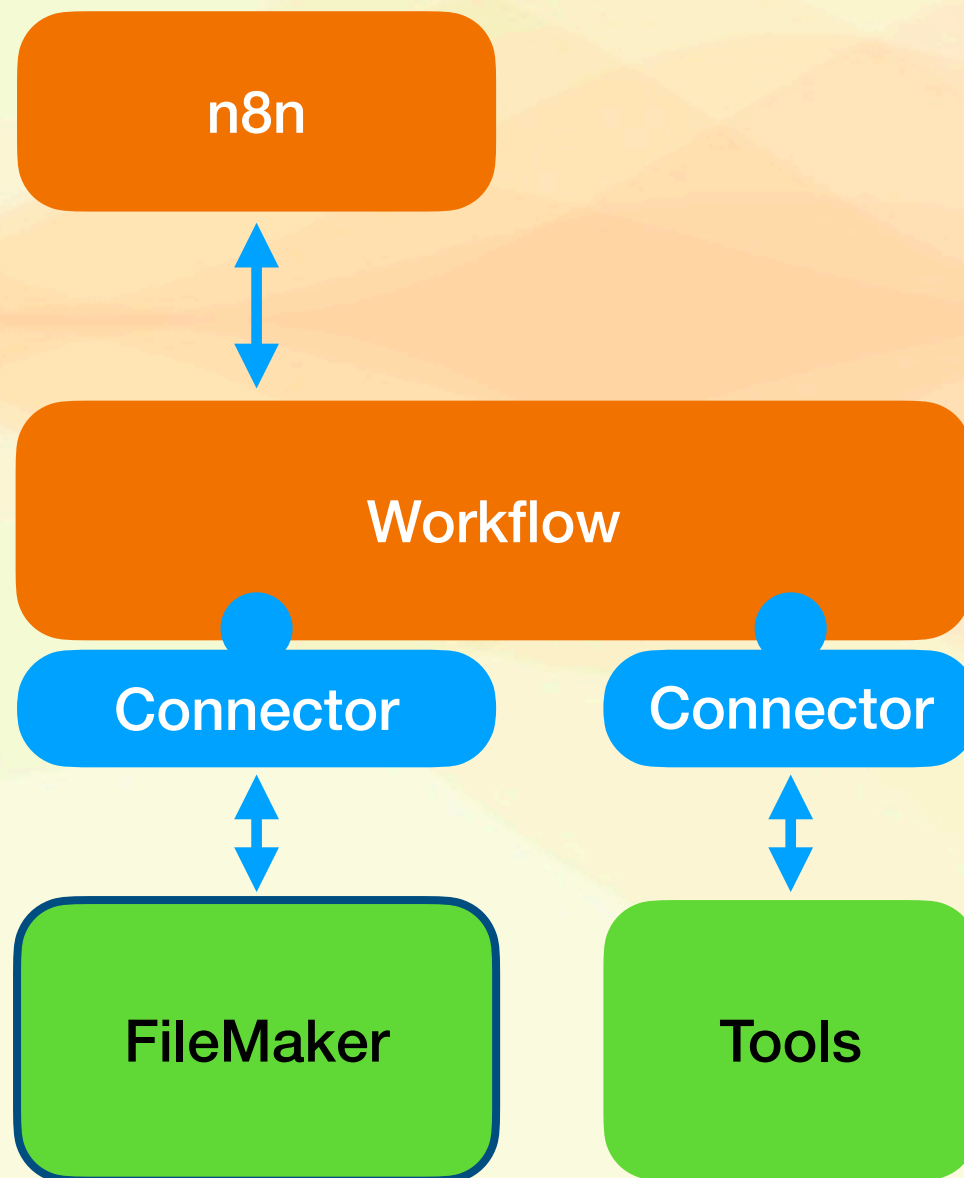
Cooking

n8n

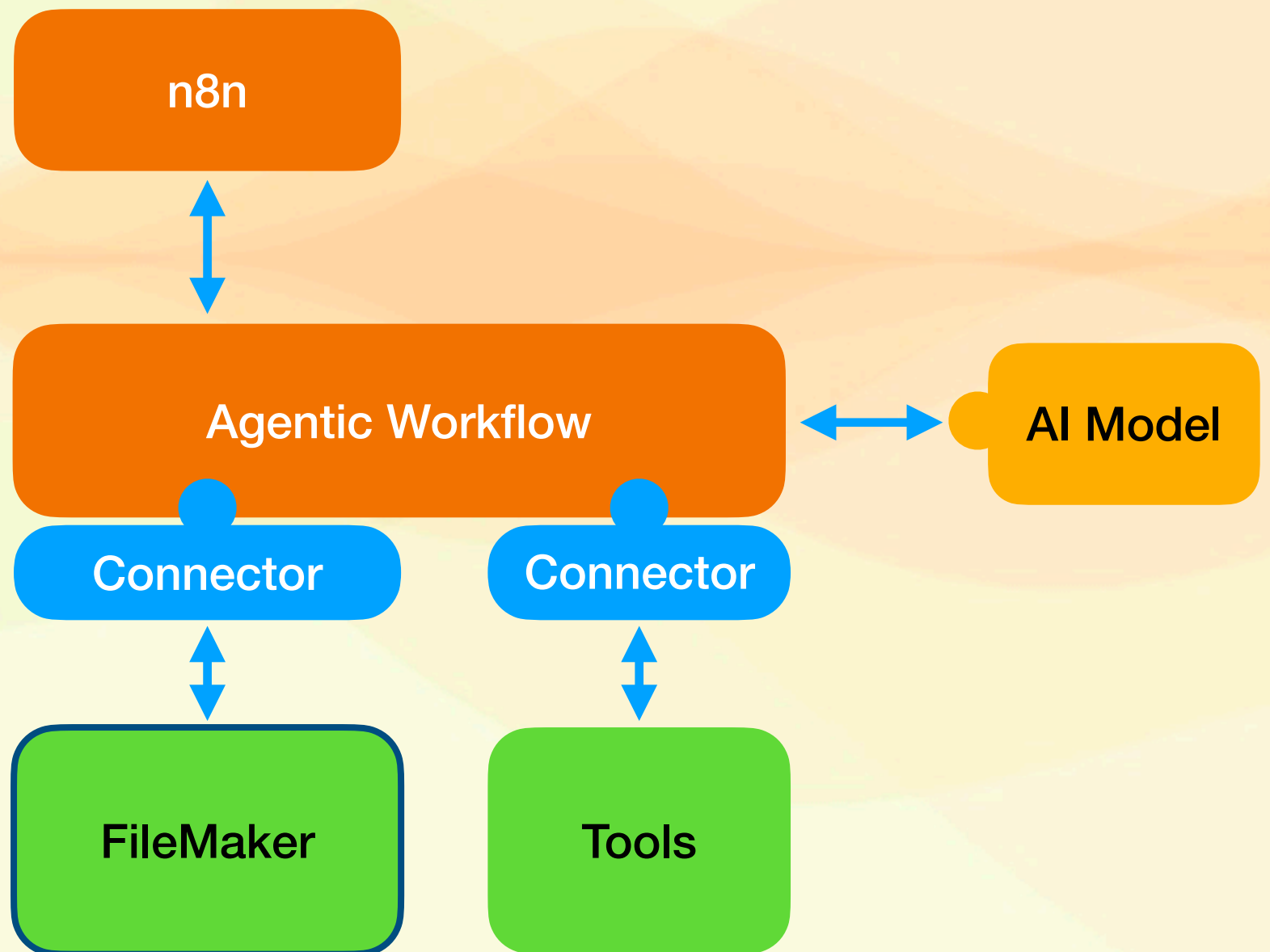
FileMaker

Tools

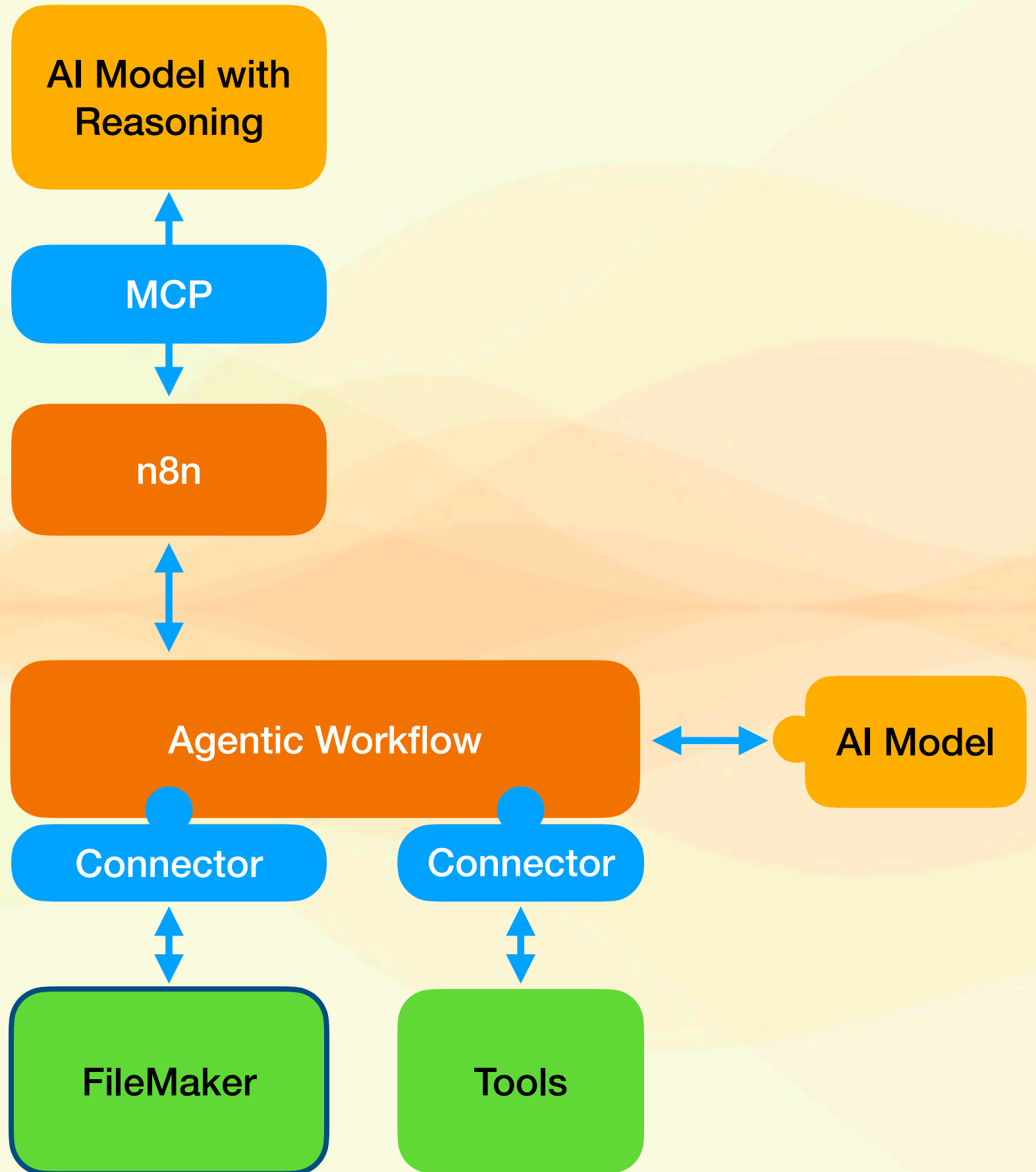
Cooking



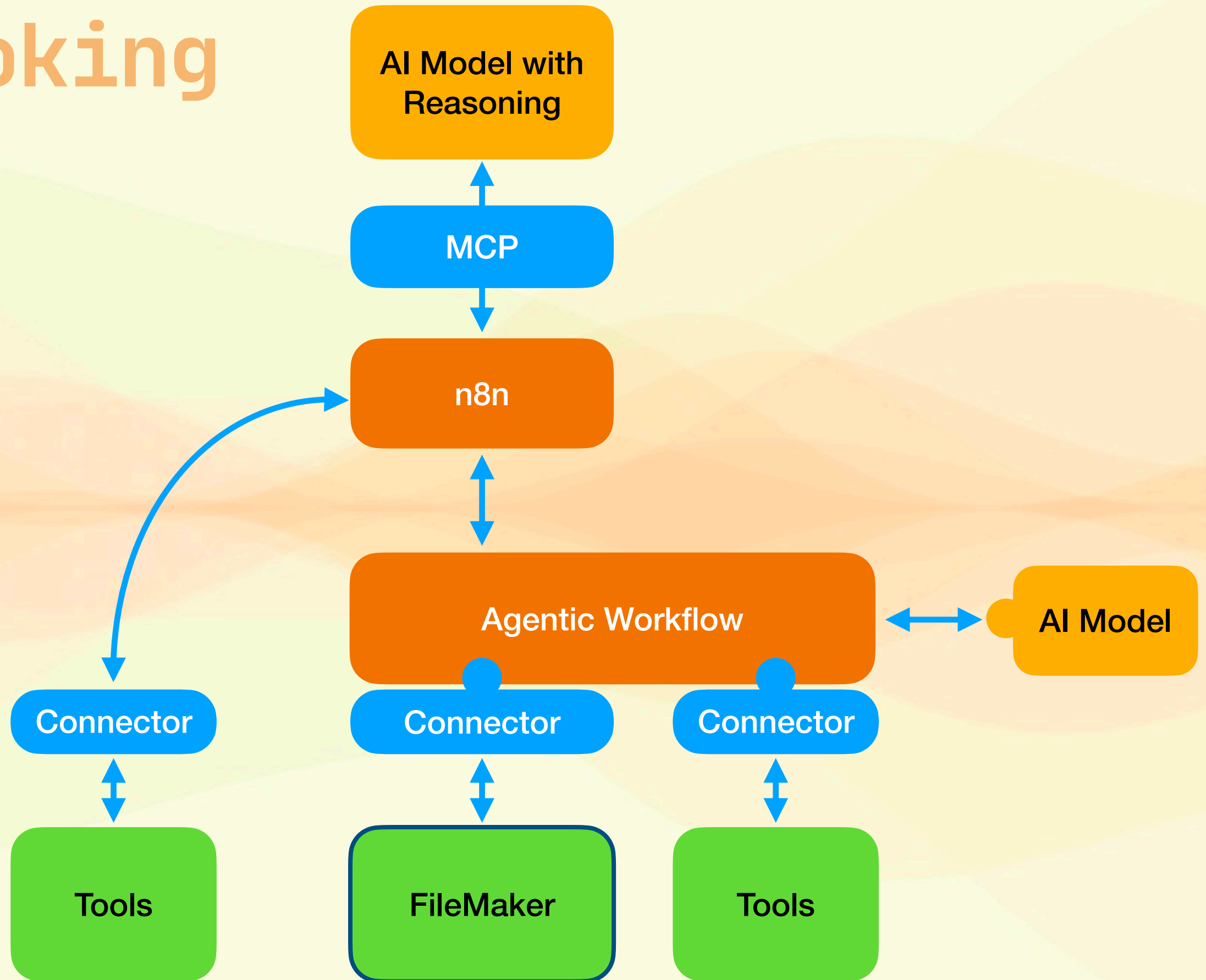
Cooking



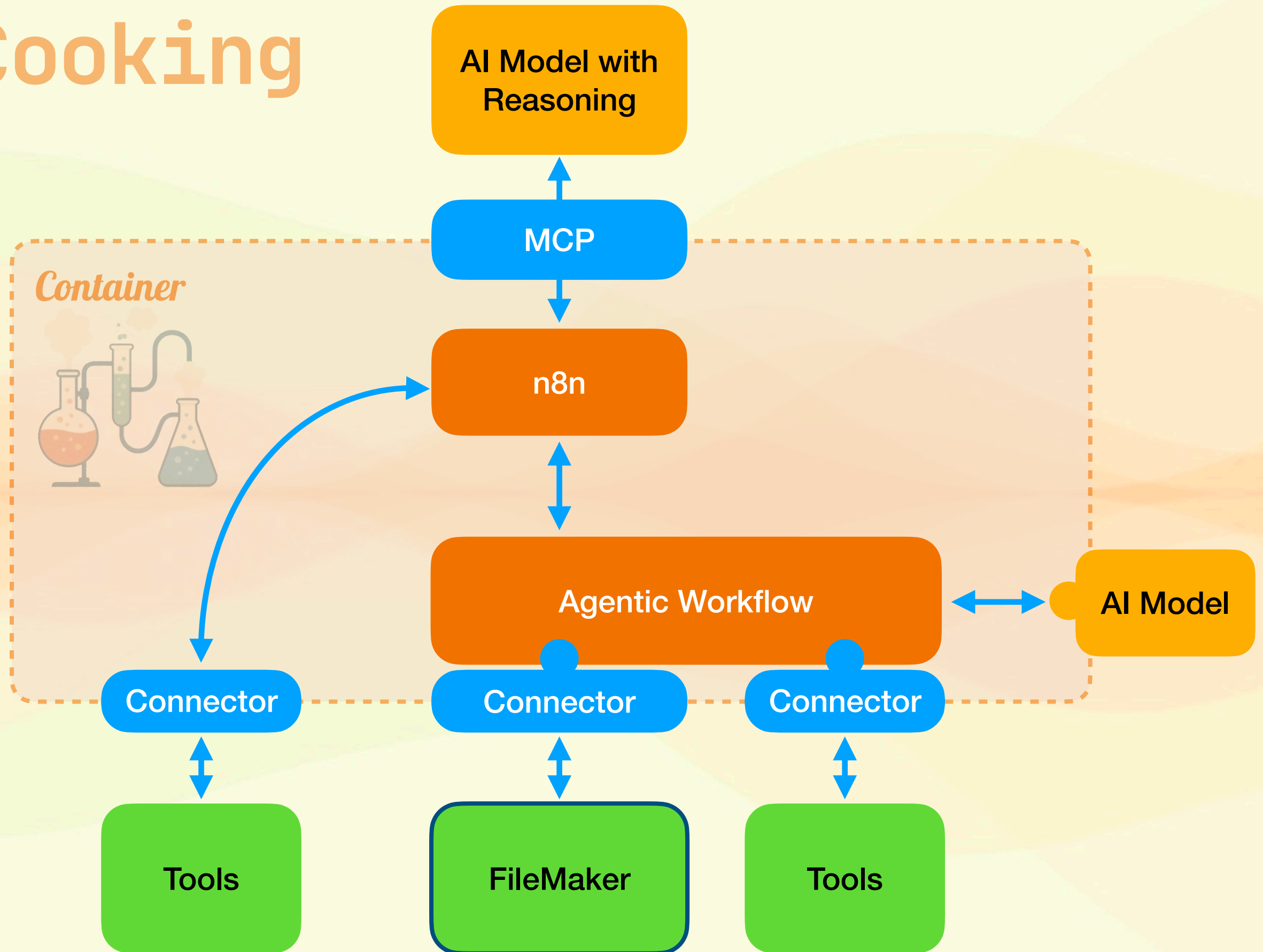
Cooking



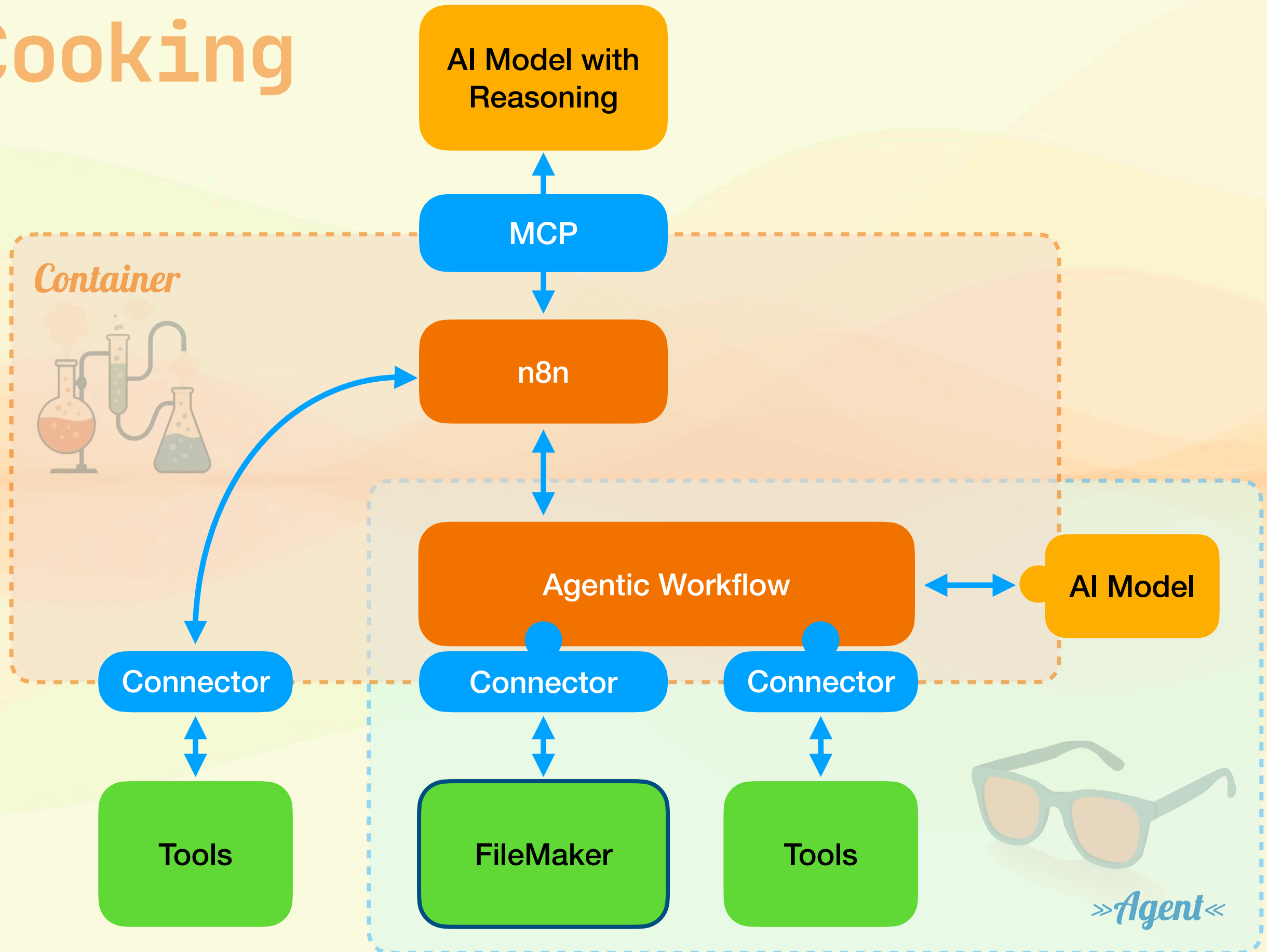
Cooking



Cooking



Cooking



Key Takeaway

A green dragon with multiple heads and wings, breathing fire, set against a yellow background. The dragon is depicted in a dynamic, coiled pose, with its heads and wings spread out. The background is a solid, bright yellow color.

»»Al«« is a crazy beast!

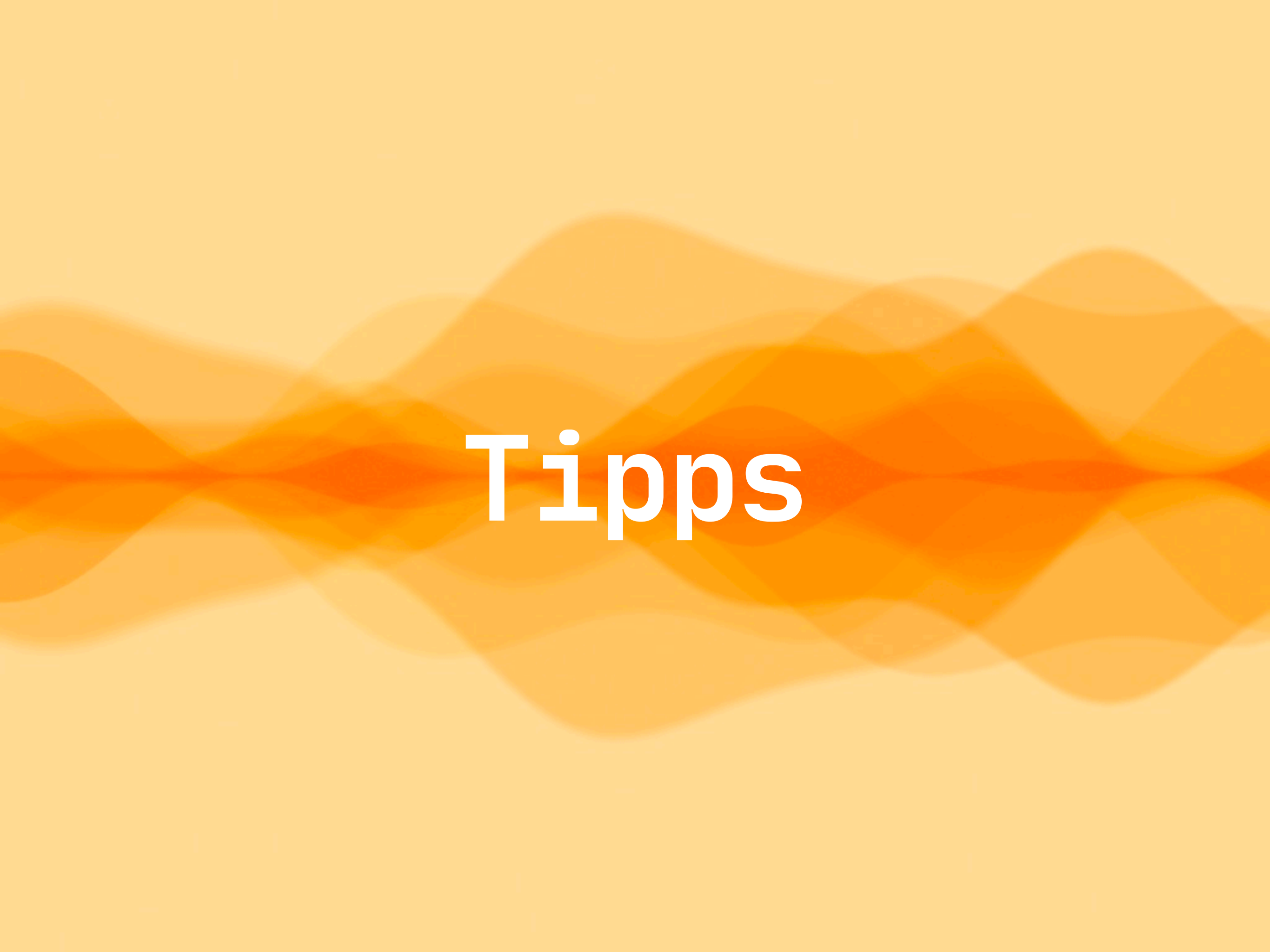


**n8n's toolbox enables you
to harness its power...**



...and get on top of it
to master the next level

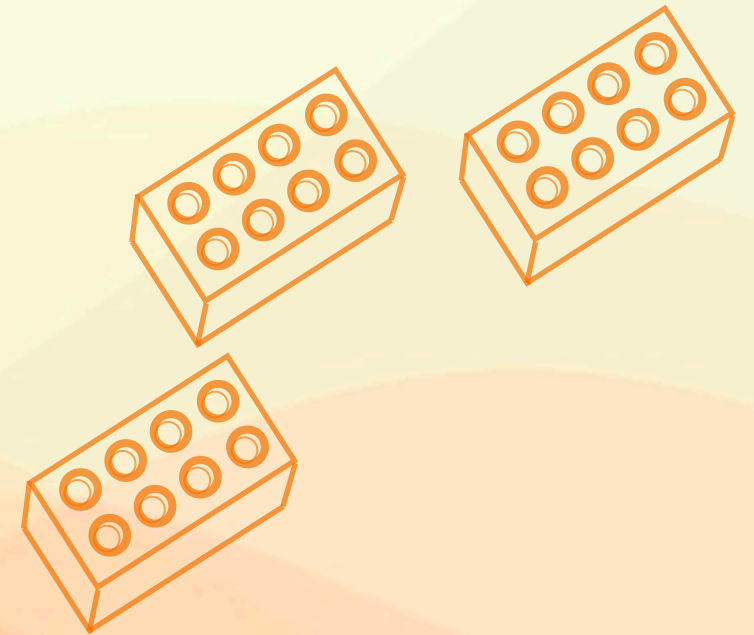
it's a lot of fun anyway....

The background is a solid light orange color with a series of overlapping, wavy, darker orange shapes that create a sense of movement and depth. The word "Tipps" is centered in the middle of the image.

Tipps

Tipps...

- experiment a lot !
- build quick Prototypes
- get deeper Understanding of AI principles
- build your own Tools
- extend your existing Solutions
- get inspired by crazy stuff from others



getting started

References . . .



n8n Website <https://n8n.io/>

n8n Docs <https://docs.n8n.io/>

n8n Blog <https://blog.n8n.io/>

n8n github <https://github.com/n8n-io/n8n>

Self-hosted AI starter kit

<https://github.com/n8n-io/self-hosted-ai-starter-kit>

Report: Enterprise AI agent development tools

<https://n8n.io/reports/ai-agent-development-tools/>

Interview with Jan Oberhauser (VisualMakers: German language)

<https://overcast.fm/+AA9f3NipjNY>

Deployment...



n8n Cloud <https://app.n8n.cloud/>

Self-hosting <https://docs.n8n.io/hosting/>

Docker Docs <https://docs.n8n.io/hosting/installation/docker/>

Docker Hub <https://hub.docker.com/r/n8nio/n8n>

elestio <https://elest.io/open-source/n8n>

DigitalOcean <https://marketplace.digitalocean.com/apps/n8n>

Self-Hosting n8n with Docker – Step by Step Tutorial

https://youtu.be/dC2Q_cyzgig

YouTube AI Agent Hype...



n8n Channel

<https://www.youtube.com/@n8n-io>

Greg Isenberg

<https://www.youtube.com/@GregIsenberg>

Nate Herk

<https://www.youtube.com/@nateherk>

Simon Scrapes

<https://www.youtube.com/@simonscrapes>

Leon van Zyl

<https://www.youtube.com/@leonvanzyl>

Aemal Sayer

<https://www.youtube.com/@AgentGeeks>

AI Automators

<https://www.youtube.com/@TheAIAutomators>

AI Workshop

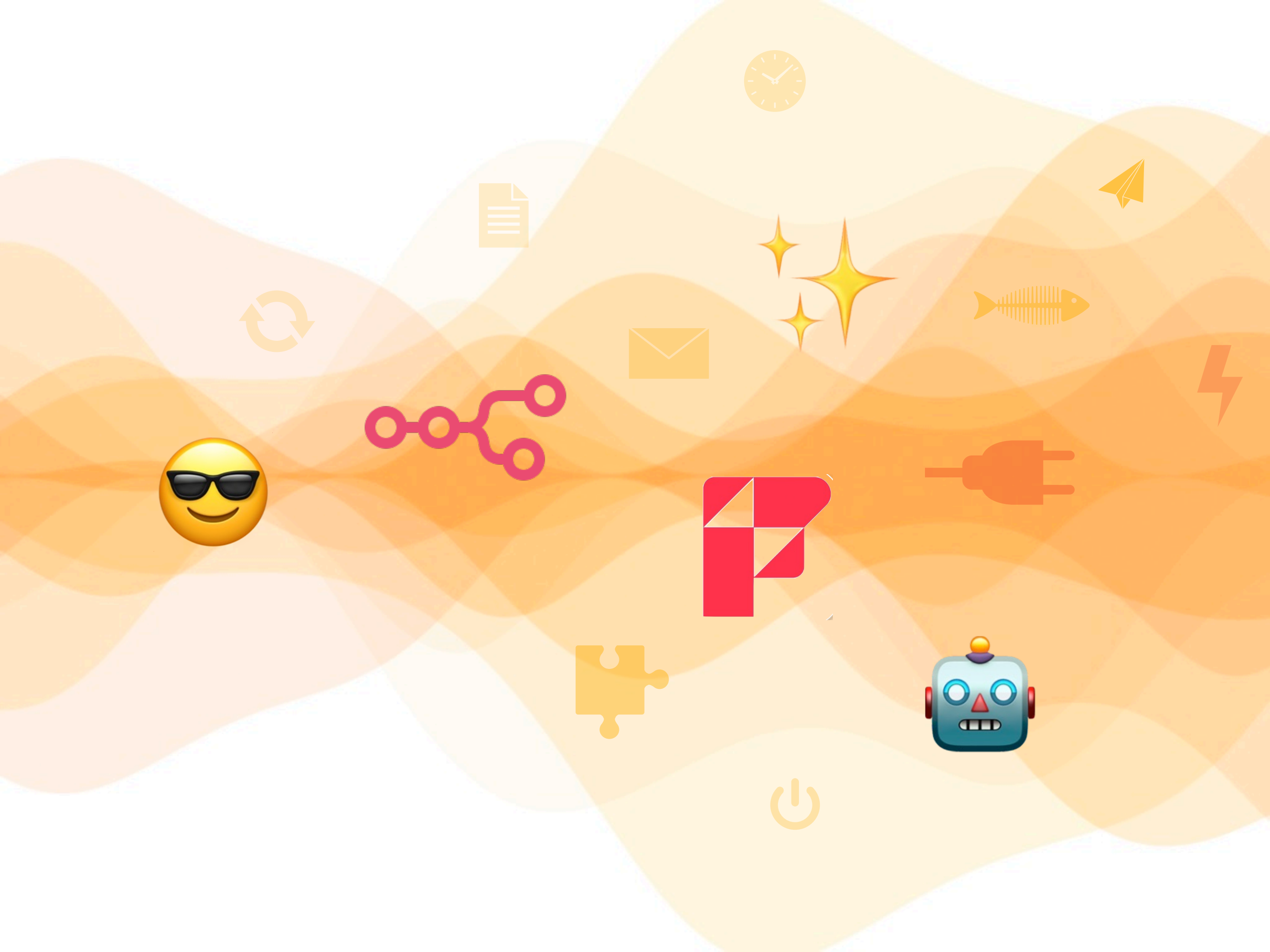
<https://www.youtube.com/@AI-GPTWorkshop>

David Ondrej

<https://www.youtube.com/@DavidOndrej>

Stephen G. Pope

<https://www.youtube.com/@StephenGPope>





thank you!

vienna
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calling

Q & A



