moviri
/AI LABS

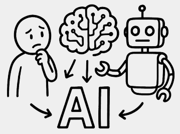
Not only chatbots
How UI / UX evolves in
the era of agentic software

November 2025

© 2025 Moviri • All Rights Reserved

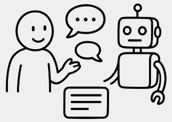
Agenda

01



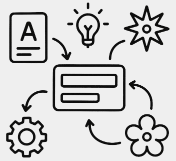
Why UI/UX must change

02



Emerging Agent UX patterns

03



Generative UI

© 2025 Moviri · All Rights Reserved

moviri

01 Why UI/UX must change

Large Language Models transform development from coded rules to dynamic, data-extracted solutions. This paradigm shift unleashes genius but with a critical caveat: these AIs have structural limitations, including planning gaps, memory issues, and a tendency to hallucinate. This is not a bug; it is the core challenge.

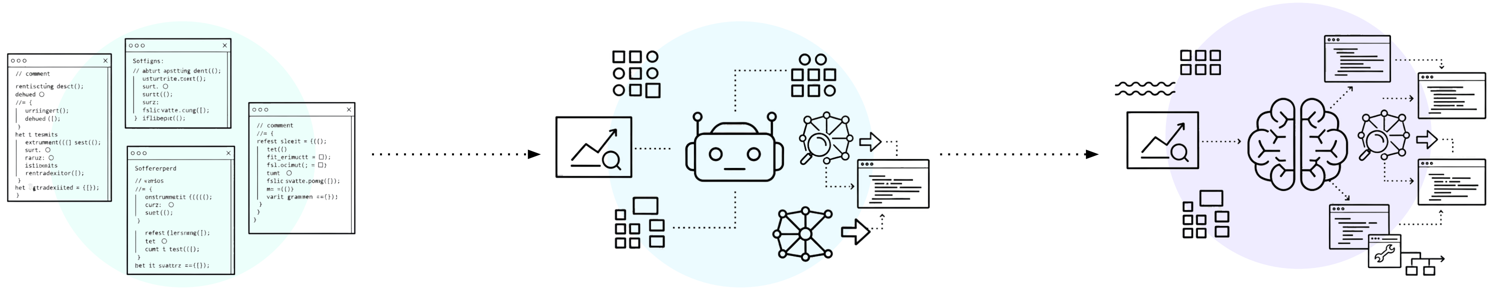
To harness this power safely, we must embrace the ***autonomy slider***, moving away from all-or-nothing control. The future of UX is about progressive delegation, building trust by deciding, moment-to-moment, how much control to grant the agent.

This design principle ensures we maximize automation for low-risk, repetitive tasks while keeping human hands firmly on the wheel for high-stakes decisions, making every interaction predictable and trustworthy.

© 2025 Moviri • All Rights Reserved

Software 3.0

A paradigm shift in how software is built



Software 1.0
The *<if, then, else>* era.

Software 2.0
Machine learning
& data science.

Software 3.0
LLMs *extracting*
software from data.

© 2025 Moviri • All Rights Reserved

moviri

Genius with limitations

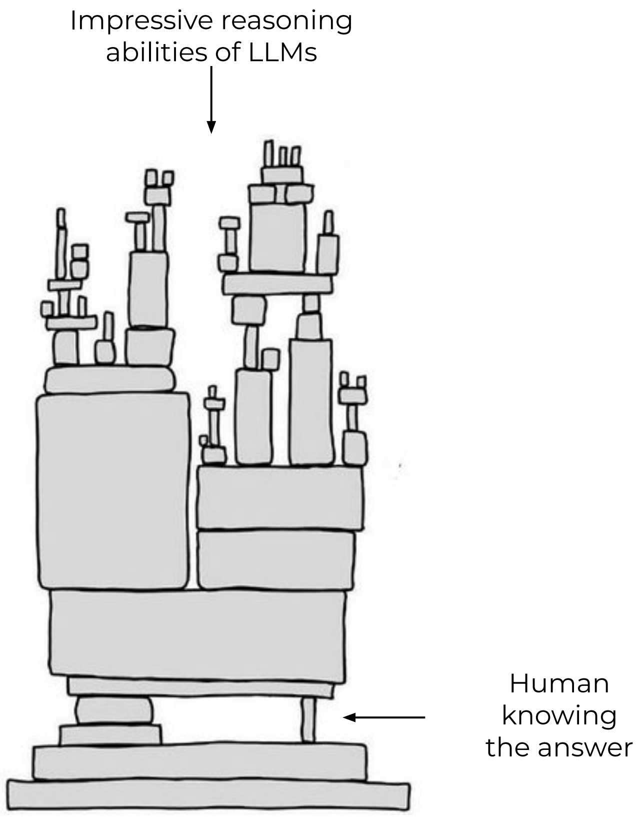
Why raw LLMs cannot be fully trusted

- **Encyclopedic knowledge**
  Instantly learns everything.

- **Structural cognitive deficiencies**
  Poor planning, memory issues, inconsistent errors, confidently fabricates details.

- **Prompt sensitivity & shallow reasoning**
  Output quality depends on wording, lacks deep understanding, struggles with multi-step logic.

- **Bias & inconsistency**
  Reflects training data bias, may contradict itself, over explains.

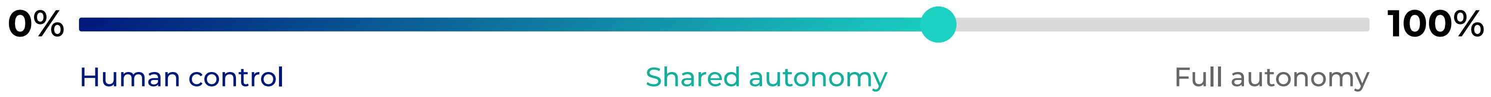


© 2025 Moviri · All Rights Reserved

moviri

The Autonomy Slider

Progressive delegation as the design axis



- **Full autonomy? Not yet.**
  AI does a piece → I review → AI continues.
- **Why it matters?**
  Builds trust gradually, reduces errors & notification overload.

*How much autonomy is **safe**?*

Low-risk tasks → give more autonomy
High-stakes decisions → keep human in control

© 2025 Moviri · All Rights Reserved

02 Emerging Agent UX patterns

The new era of agentic software demands a revolution in user experience. Traditional UIs falter against challenges like task asynchrony, the need to build trust due to the agent's structural errors, and the inherent ambiguity of natural language interaction.

Emerging UX patterns are tackling these head-on. ***Chat UX*** evolves with streaming and non-streaming modes to manage engagement and delegation. ***Ambient Agents*** shift the user from active control (*in* the loop) to passive supervision (*on* the loop). ***Agent-Human Handshakes*** standardize when and how agents notify, ask, or act, ensuring predictability over perfection. The ***Agent Inbox*** centralizes all agent communications to manage complexity.

These innovations, alongside Collaborative and Spreadsheet UX paradigms, move us toward flexible, task-aware experiences that redefine how we work.

© 2025 Moviri • All Rights Reserved

moviri

New challenges

Why agentic systems demand new UX paradigms

Asynchrony
Tasks may take minutes or hours, waiting states must be designed.

Reliability
Errors are structural and often subtle, UX must build trust.

Natural language
Flexible but ambiguous, design must handle misinterpretation.

© 2025 Moviri · All Rights Reserved

Pattern #1: Chat UX

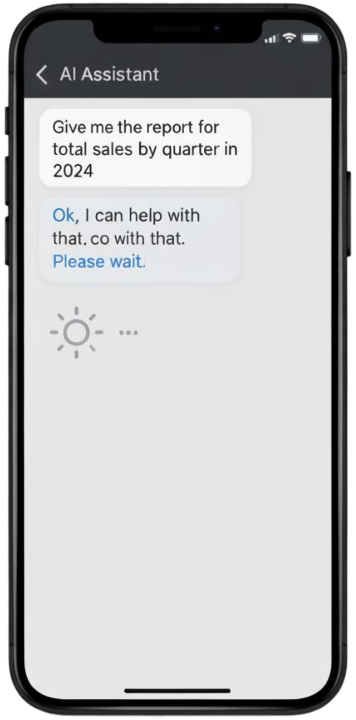
Transparency vs. trust in delegation

1. Streaming

- See the model *thinking* in real time.
- User remains highly engaged.

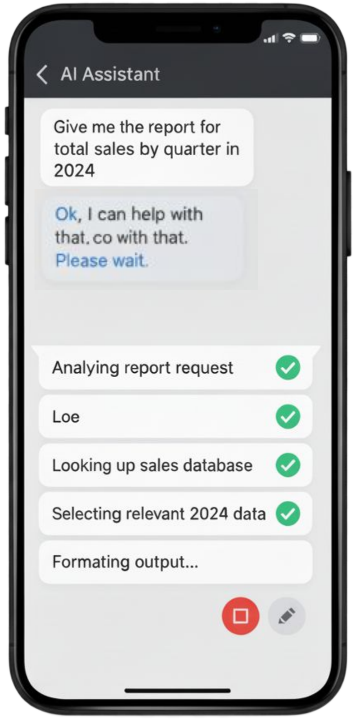
2. Non-Streaming

- Output comes only at the end of the task.
- Works if you trust the result.
- Suitable for long tasks; user delegates the work.



Give me the report for total sales by quarter in 2024

Ok, I can help with that. co with that. Please wait.



Give me the report for total sales by quarter in 2024

Ok, I can help with that. co with that. Please wait.

Analying report request ✓

Loe ✓

Looking up sales database ✓

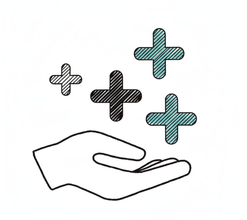
Selecting relevant 2024 data ✓

Formating output...

© 2025 Moviri · All Rights Reserved

Pattern #2: Ambient Agents

From real-time control to observability and rewind



Human in the loop
Active participation, human must **continuously control**. For high-risk tasks.

Human on the loop
Passive supervision, human must **control only when needed**. For repetitive or parallel tasks.

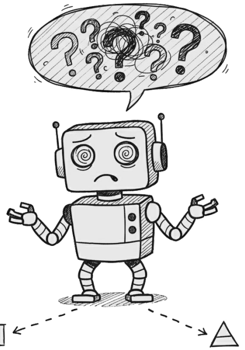
Benefits
Agents are working while **human focuses on other things**, they can always see what they did, review, and correct.

© 2025 Moviri · All Rights Reserved

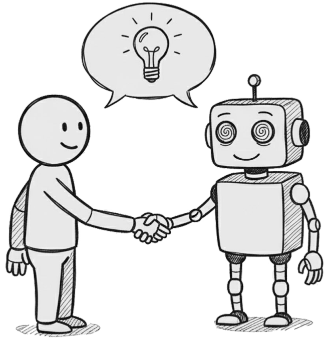
moviri

Pattern #3: Handshakes

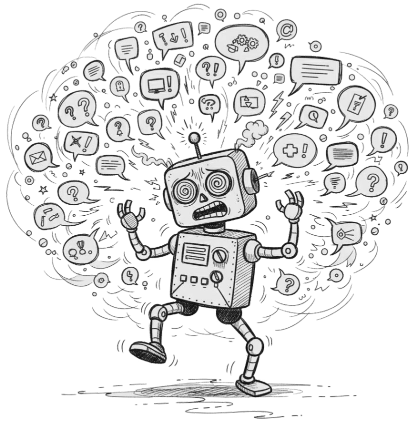
Trust comes from knowing what to expect, not never making mistakes



Agents need to know **when to notify**, ask, or pause.



Handshakes are human-friendly rules for **predictable behavior**.



Without standards, **random pings** or unexpected actions will happen.

© 2025 Moviri · All Rights Reserved

Pattern #4: Agent Inbox

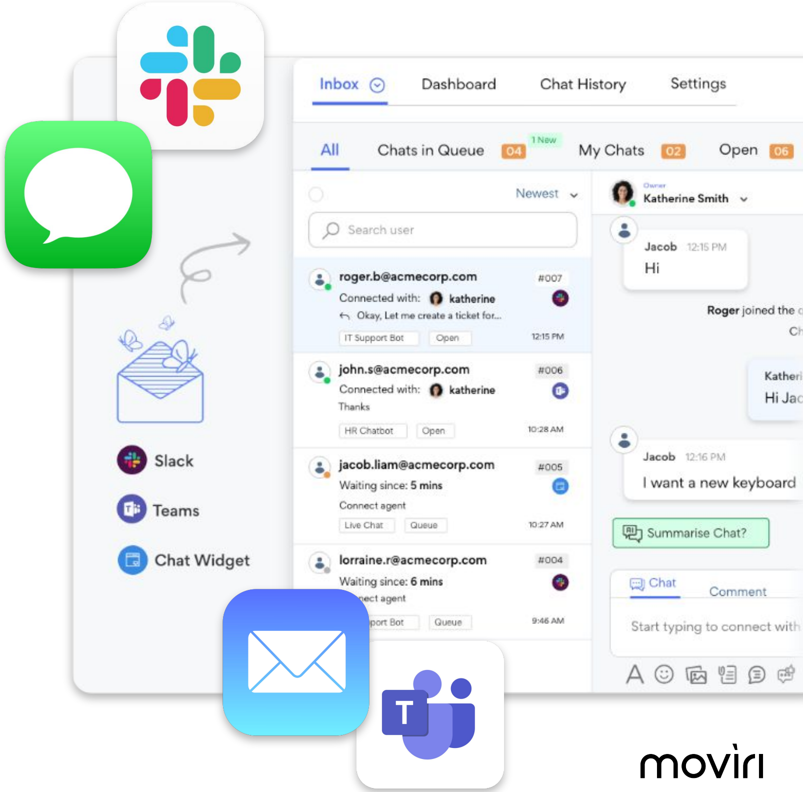
Centralizing communication with multiple agents

Today notifications come via email, pop-ups, notifications… it's chaotic and overwhelming.

Agent Inbox is a single, central place to manage all open agent threads.

Benefits

- Never lose track of ongoing threads.
- Easily prioritize tasks and notifications.



roger.b@acmecorp.com #007
Connected with: katherine
Okay, Let me create a ticket for...
IT Support Bot · Open · 12:15 PM

john.s@acmecorp.com #006
Connected with: katherine
Thanks
HR Chatbot · Open · 10:28 AM

jacob.liam@acmecorp.com #005
Waiting since: 5 mins
Connect agent
Live Chat · Queue · 10:27 AM

lorraine.r@acmecorp.com #004
Waiting since: 6 mins
ect agent
port Bot · Queue · 9:46 AM

Owner
Katherine Smith

Jacob 12:15 PM
Hi

Roger joined the

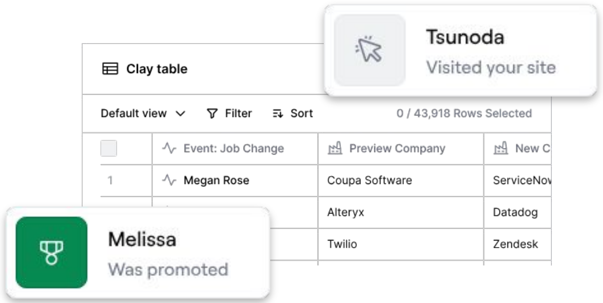
Kather
Hi Jac

Jacob 12:16 PM
I want a new keyboard

moviri

Other UX paradigms

Naturally replicating familiar tools



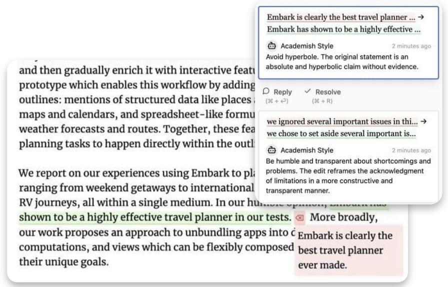
Tsunoda
Visited your site

Clay table

Default view · Filter · Sort · 0 / 43,918 Rows Selected

	Event: Job Change	Preview Company	New C
1	Megan Rose	Coupa Software	ServiceNov
		Alteryx	Datadog
		Twilio	Zendesk

Melissa
Was promoted



and then gradually enrich it with interactive featu
prototype which enables this workflow by adding
outlines: mentions of structured data like places a
maps and calendars, and spreadsheet-like formu
weather forecasts and routes. Together, these fea
planning tasks to happen directly within the outli

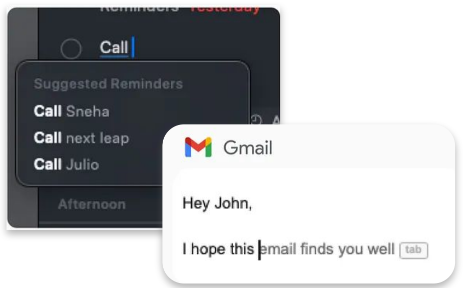
We report on our experiences using Embark to pla
ranging from weekend getaways to international
RV journeys, all within a single medium. In our hu
shown to be a highly effective travel planner in our tests. More broadly,
our work proposes an approach to unbundling apps into c
computations, and views which can be flexibly composed
their unique goals.

Embark is clearly the best travel planner ever made.

~~Embark is clearly the best travel planner ...~~ →
Embark has shown to be a highly effective ...
Academish Style · 2 minutes ago
Avoid hyperbole. The original statement is an absolute and hyperbolic claim without evidence.

Reply (⌘ + ↩) · Resolve (⌘ + R)

~~we ignored several important issues in thi...~~ →
we chose to set aside several important is...
Academish Style · 2 minutes ago
Be humble and transparent about shortcomings and problems. The edit reframes the acknowledgment of limitations in a more constructive and transparent manner.



Call

Suggested Reminders
Call Sneha
Call next leap
Call Julio

Afternoon

Gmail

Hey John,

I hope this email finds you well [tab]

Spreadsheet UX

Each cell, an agent.
This batching allows users to **scale up and interact with multiple agents** simultaneously.

Collaborative UX

Human and Agent edit the same document with version merging, **working simultaneously**, feeding off of each others work.
(not in the background as an Ambient Agent)

Predictive UX

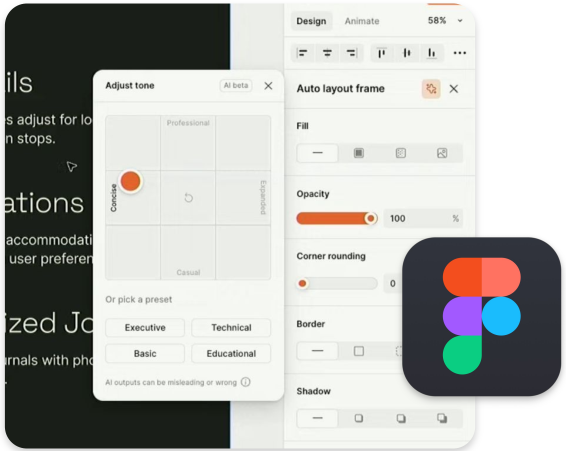
Reduce friction by **anticipating intent**.
It may be a smart autocomplete based on your habits or an input refinement.
(contextual controls)

© 2025 Moviri · All Rights Reserved

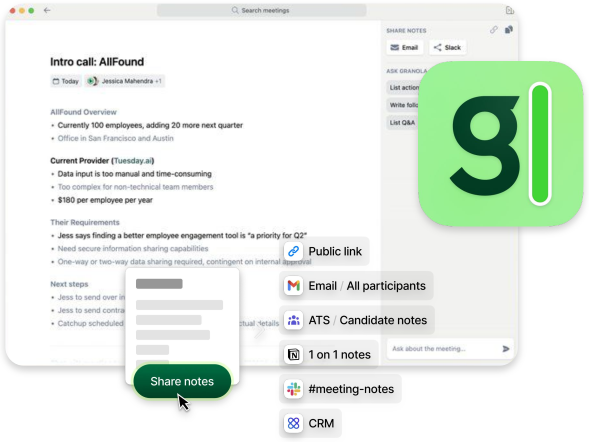
moviri

Bonus: real-life examples

Unique design ideas to inspire your next product



Context bundling
In Figma, you change the tone with a slider, no prompt needed.



Intro call: AllFound

Today · Jessica Mahendra +1

AllFound Overview
- Currently 100 employees, adding 20 more next quarter
- Office in San Francisco and Austin

Current Provider (Tuesday.ai)
- Data input is too manual and time-consuming
- Too complex for non-technical team members
- $180 per employee per year

Their Requirements
- Jess says finding a better employee engagement tool is "a priority for Q2"
- Need secure information sharing capabilities
- One-way or two-way data sharing required, contingent on internal approval

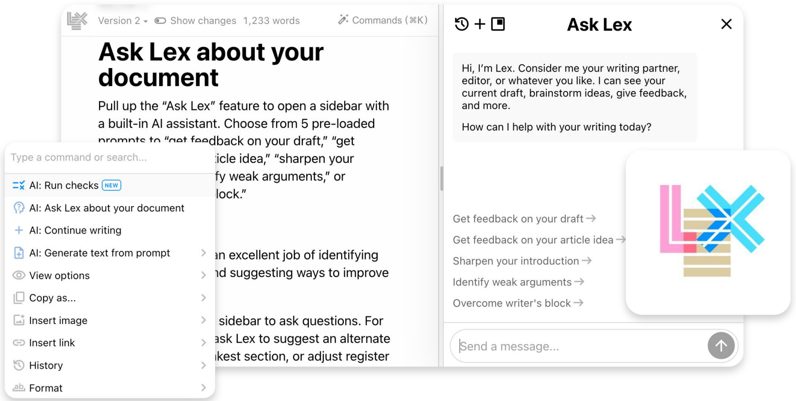
Next steps
- Jess to send over in
- Jess to send contra
- Catchup scheduled

Work-with-me
Granola summarizes meetings based on your notes, not the entire transcript.

© 2025 Moviri · All Rights Reserved

Bonus: real-life examples

Unique design ideas to inspire your next product


Version 2 · Show changes 1,233 words · Commands (⌘K)

Ask Lex about your document

Pull up the "Ask Lex" feature to open a sidebar with a built-in AI assistant. Choose from 5 pre-loaded prompts to "get feedback on your draft," "get …icle idea," "sharpen your …fy weak arguments," or …lock."

…an excellent job of identifying …nd suggesting ways to improve

…sidebar to ask questions. For …ask Lex to suggest an alternate …akest section, or adjust register

Ask Lex

Hi, I'm Lex. Consider me your writing partner, editor, or whatever you like. I can see your current draft, brainstorm ideas, give feedback, and more.

How can I help with your writing today?

Get feedback on your draft →
Get feedback on your article idea →
Sharpen your introduction →
Identify weak arguments →
Overcome writer's block →
Send a message...

Highlighting
Lex lets you interact with *@mentions.*

Ambient AI
Ford Lane Assist easily takes control from the human (*hand-off*) and gives back the control without any hindrances (*take-back*).

© 2025 Moviri · All Rights Reserved

moviri

03 Generative UI

Generative UI, powered by the ***AI SDK***, transforms tool calls into rich, native interface components. Forget raw text outputs. With generative UI you get smooth, user-friendly experiences with proper loading and error handling.

The ***AG-UI Protocol*** standardizes every agent interaction, from progress updates to approvals, ensuring a consistent, predictable experience across all platforms. This decoupling of the UI from the backend allows for task-specific views beyond traditional chat.

While LLMs are brilliant, they are imperfect. The design challenge is building interfaces that co-evolve with agents, focusing on the core principles of autonomy, trust, and asynchrony to create predictable, adaptable, and simple user experiences.

© 2025 Moviri • All Rights Reserved

AI SDK

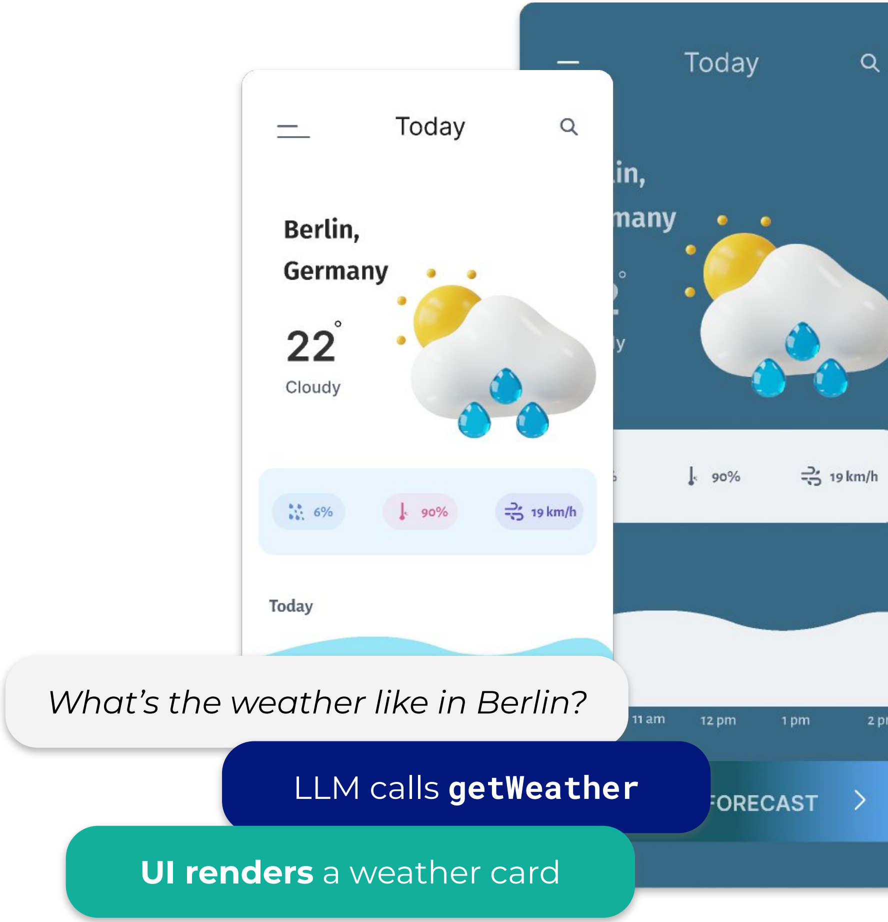
Turning tool calls into native UI elements

The AI SDK is a developer's kit that connects tools and the user interface, enabling a Large Language Model to initiate function calls and render native UI components.

This decouples the UI from the back-end logic, i.e. developers don't have to write specific code for every possible LLM output

Benefits

- No more raw JSON or text outputs.
- Native components with loading states, error handling, smooth transitions.
- Much stronger, user-friendly UX.



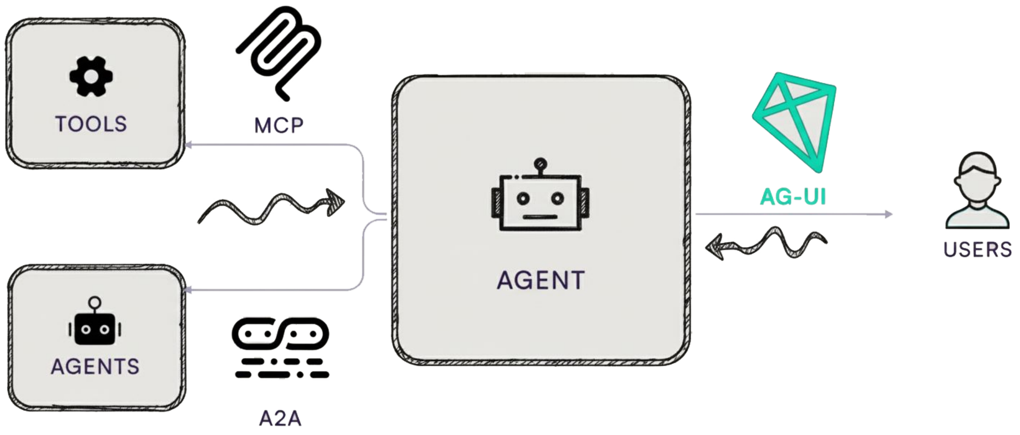
© 2025 Moviri · All Rights Reserved

moviri

AG-UI Protocol

A common language for agent-driven interfaces

AG-UI Protocols standardize all interactions: progress updates, approvals, actions.
Same interaction and flows works everywhere – Slack, desktop, or web – because
Agent and UI speak the same language.



© 2025 Moviri · All Rights Reserved

moviri

Implications

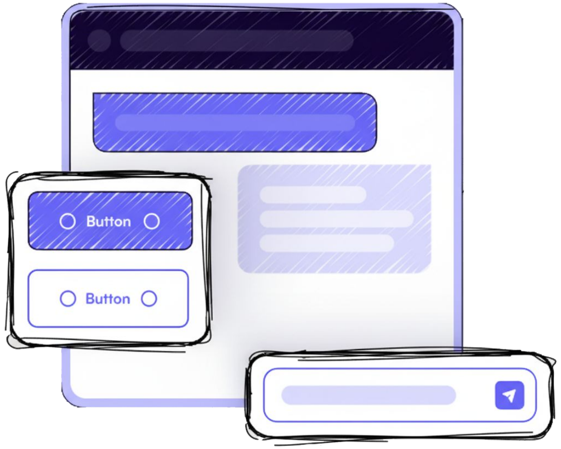
Towards flexible, portable, task-aware experiences

Implications of Generative UI

1. **UI decouples from backend** – it's tied to the protocol, not the app.
2. **Beyond chat** – task-specific views emerge.
3. **Integrates naturally with Agent Inbox** – more consistent experiences, fewer "Frankenstein" notifications.

*Does Generative UI risk **confusing users** with ever-changing interfaces?*

The point of Generative UI is not to create crazy interfaces every time, but to generate **variants within a set of familiar components**. A login form remains a login form.



© 2025 Moviri · All Rights Reserved

Conclusion

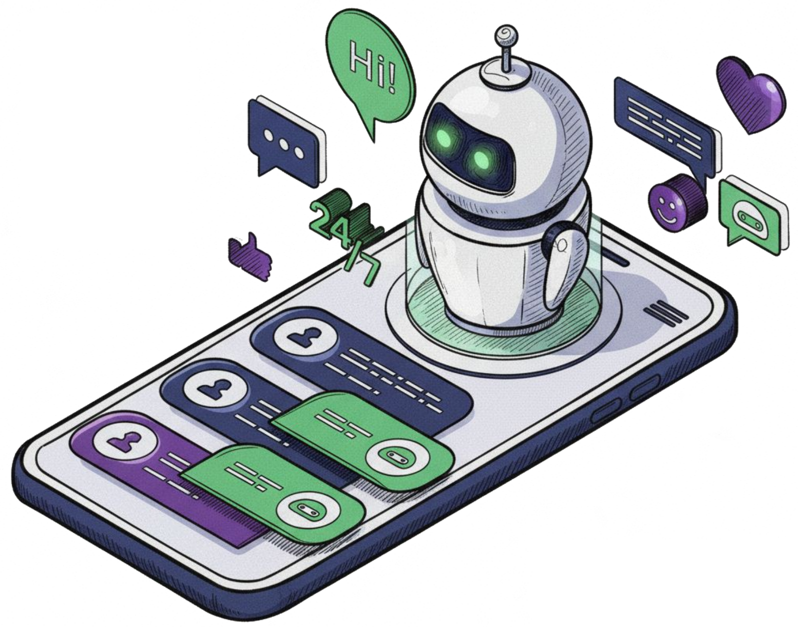
Design evolves as fast as the agents we build

In summary:

- LLMs are brilliant but imperfect.
- Applications work best with **partial autonomy** and **new UX patterns**.
- We are moving toward **AI-generated UIs**.

The challenge for designers today:

- Build interfaces that are not only usable but **co-evolve with the agents**.
- Design must evolve along **three axes**: autonomy, trust, asynchrony.
- This is **completely different** from how we used to design.



© 2025 Moviri · All Rights Reserved

moviri

moviri
/ AI LABS

Agentic AI for the enterprise

Agents are not just tools, but the new way to build IT systems and intelligent applications. At Moviri AI Labs we've created a cross-disciplinary team of analysts, engineers, researchers, and designers who develop and assemble AI agents, by using AI agents.

To learn more visit **ailabs.moviri.com**

© 2025 Moviri · All Rights Reserved

moviri

moviri
/AI LABS

HQ Milan

Via Schiaffino, 11
Milan, Italy
20158

Padova

Via Sant'Andrea, 21
Padova, Italy
35139

Boston

211 Congress Street
Boston, MA
02110

Los Angeles

12130 Millennium Dr
Los Angeles, CA
90094

© 2025 Moviri · All Rights Reserved

moviri