Joseph D. Smith

PRODUCT LEADER · DESIGNER · DEVELOPER

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I build products and the systems behind them.

I have led enterprise public-affairs products and build independent software.

My work ranges from enterprise public-affairs platforms used by hundreds of organizations to small iPhone apps, games, data tools, and experiments in artificial life.

01	Public affairs	Enterprise software for regulated public-affairs programs.
02	Loom.haus	Searching simulated physics for signs of life.
03	Page	An inbox shared by your devices and agents.
04	Gauge	Local usage accounting for coding agents.
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06	Emergent.D	A planet-building game governed by one simulation.
07	Touch Advocacy	A simpler way to call and write Congress.
08	Monday Draft	A production system for recurring client work.
09	Jimothy Jump	A one-day iPhone game about a real Seattle raccoon.
10	Amieeba	A private digital fidget toy.
11	Oodl.ai	An art feed built from museum collections.
12	a-gnt	A browsable catalog of AI tools.
13	Atomic	A relational application kernel built around one record type.
14	Atomic Reason	A logic engine that identifies missing evidence.
15	pac.dog	Open political data without the commercial interface.
16	Obsat	Twenty-four sources queried from one coordinate.

Public affairs

Enterprise software for regulated public-affairs programs.

I led product strategy and delivery for enterprise advocacy, PAC management, compliance, communications, and reporting software.

The role covered product strategy, design, engineering priorities, security, client experience, and business operations.

The work included contribution-limit enforcement, payroll processing, constituent targeting, cloud migration, personalization, AI orchestration, and reliable operation of regulated systems.

ROLE

Senior product leadership

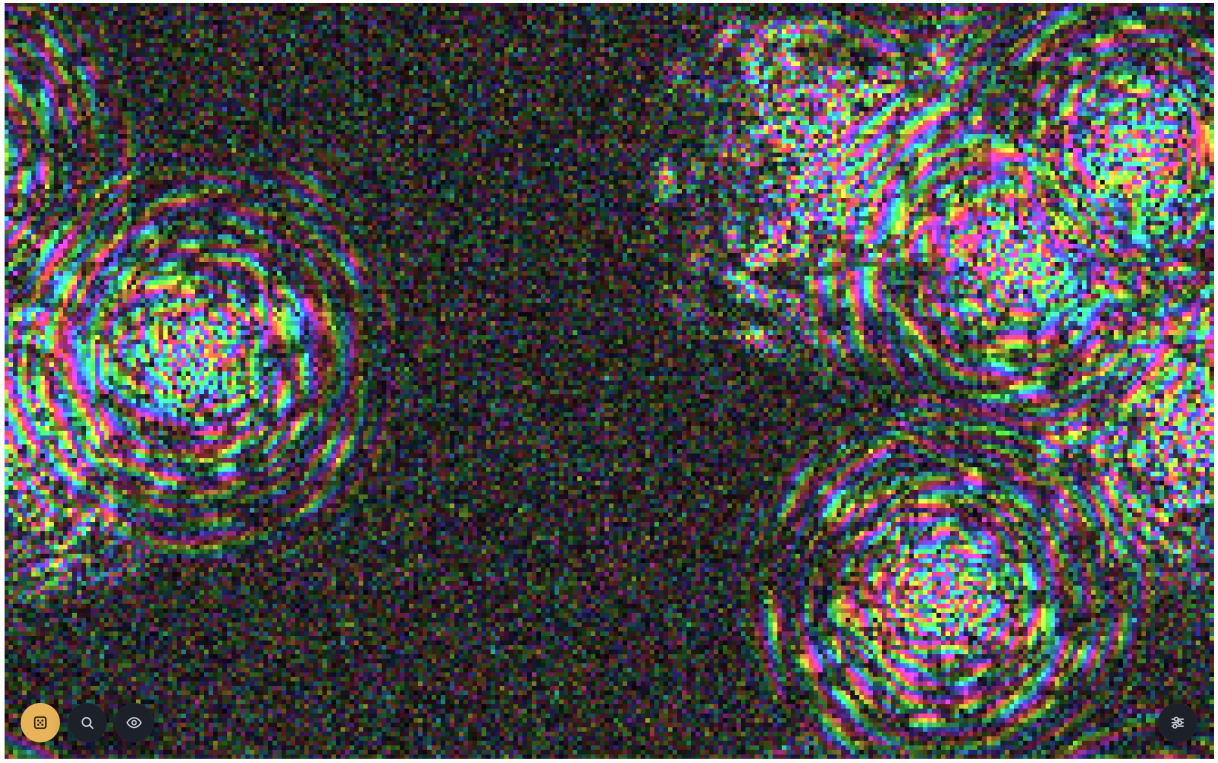
DOMAIN

Advocacy · PAC management · compliance

Loom.haus

Searching simulated physics for signs of life.

Loom evolves the physical rules of small simulated universes, then measures whether stable structures form, reproduce, and pass recognizable traits to their descendants.



The live simulation — brightness is density, hue is phase

Each universe contains two complex fields on a torus. They evolve under the Gross–Pitaevskii equation, a nonlinear form of the Schrödinger equation used for quantum matter waves.

The search changes physical constants such as mass, coupling, damping, and drive. The question is simple: which combinations allow persistent structures to form, split, and pass recognizable structure to descendants?

The difficult part is measurement. A spreading wave can look like reproduction, so Loom only counts an event when descendants separate, persist, and remain more similar to their parent than to unrelated structures. The system has observed many fissions, but no confirmed inheritance yet.

WHAT IT IS
Artificial-life research platform

ENGINE
Gross–Pitaevskii · Visscher staggered leapfrog

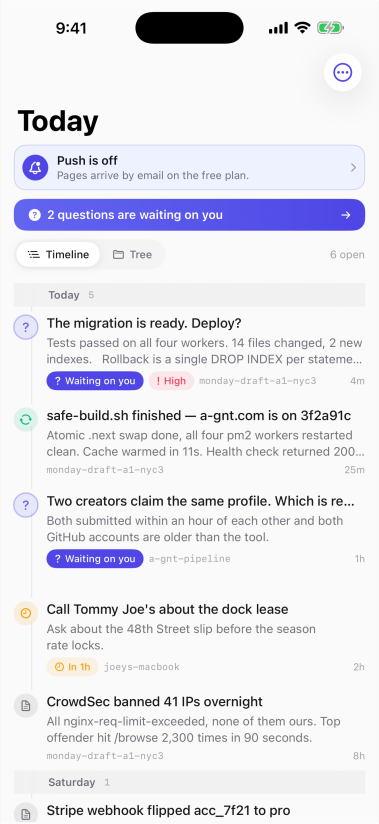
PHYSICS AS DATA
Planck · mass · 3 couplings · damping · drive

VISIT
loom.haus

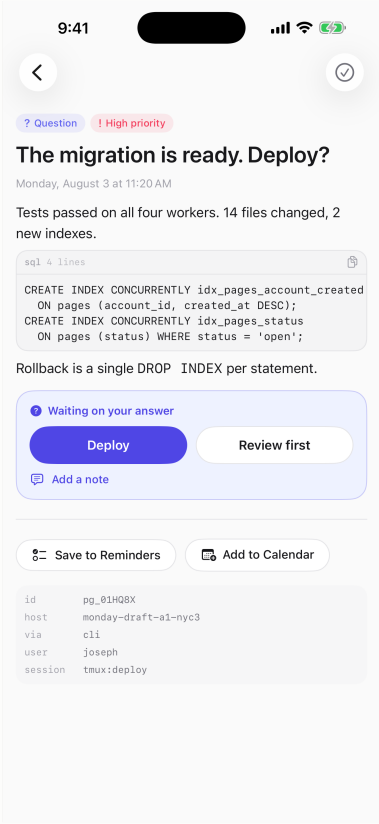
Page

An inbox shared by your devices and agents.

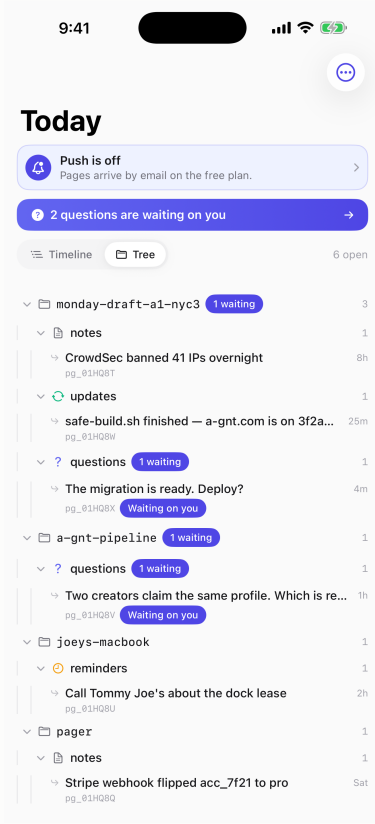
Page saves notes, decisions, reminders, and questions from any terminal or agent. They appear on your phone immediately and remain available to later sessions on other machines.



Timeline



A question



Tree

The problem it solves is unglamorous. You are three hops into an SSH session and you work something out worth keeping. Getting it anywhere useful means selecting it out of a terminal that reflows, mailing it to yourself, or dropping it in a scratch file that is gone by Friday. Copy and paste does not cross machines, and it does not cross sessions at all — the session that made the decision ends, and the decision goes with it.

Page replaces that with one command. `page "rate limiter: token bucket per API key, not per IP"` and it is stored, not merely delivered. On Friday, from a different machine, `pager_list()` hands it back. The CLI and the MCP server write to the same inbox, so an agent saves what it figured out and a later agent reads it, without either of them going through you.

Every page is one of four typed objects — a note, a reminder, an update, or a question — so the inbox reads like a briefing instead of a feed. The iPhone app reads the day as a timeline, as a tree grouped by the machine that wrote it, or by project. On iPad it opens like Mail, list beside page.

The walking-away part came out of the same design and turned out to be the demo people remember. A question carries answer buttons. `page ask "Deploy?" --choices "Ship,Review"` blocks in the shell until you tap, then prints your choice to stdout, so an agent can hand you a decision and wait while you are nowhere near the desk.

WHAT IT IS
One inbox for every machine and session · iOS

SURFACES
iPhone · iPad · CLI · MCP server · web

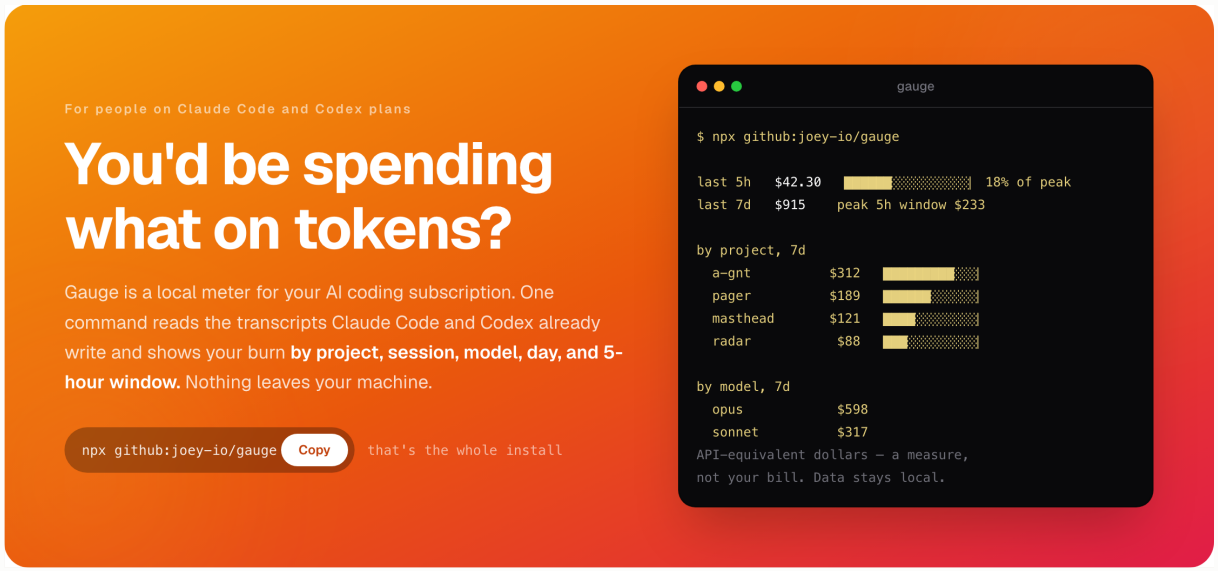
SERVER
Node stdlib only · zero dependencies · SQLite

TRY IT
a-gnt.com/page

Gauge

Local usage accounting for coding agents.

Gauge reads the transcripts Claude Code and Codex already store on disk, then reports token use and API-equivalent cost by project, session, model, day, and five-hour window.



One command, the whole picture

Coding agents can spend time and money in the background at a rate nobody can see, and the standard interface for that is a spinner. Subscriptions give a flat number and then a wall: no per-project accounting, no way to look at a week and say which piece was expensive.

The data is already on the machine. Both tools write full transcripts as they run — every request, every response, every token — and Gauge simply adds them up. Nothing leaves the machine: no account, no telemetry, no server to send anything to.

The finding that surprised me most is about sub-agents. Their transcripts nest deeply enough that a tool walking the obvious directory misses most of the work; in testing, roughly half the spend was down there. The by-model slice ends the routing argument too, because some of what gets sent to the heavy model is genuinely hard and some of it is a file rename.

The dollars are API-list-equivalent — what the usage would cost at published API rates — not a subscription bill. Subscription plans do not publish their quota mechanics, so anyone claiming to convert one into the other is guessing. It is an odometer, not a receipt.

WHAT IT IS
Local usage meter for coding agents

RUN IT
npx github:joey-io/gauge

SLICES
Project · session · model · day · 5-hour window

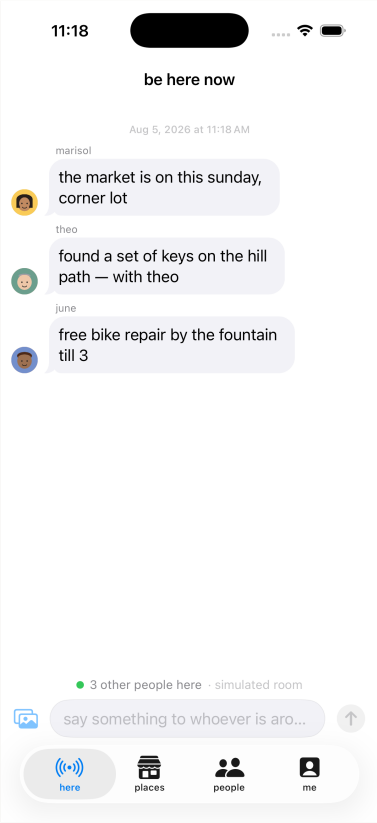
PRIVACY
Reads local transcripts · nothing leaves the machine

LICENSE
MIT · optional $3 supporter license

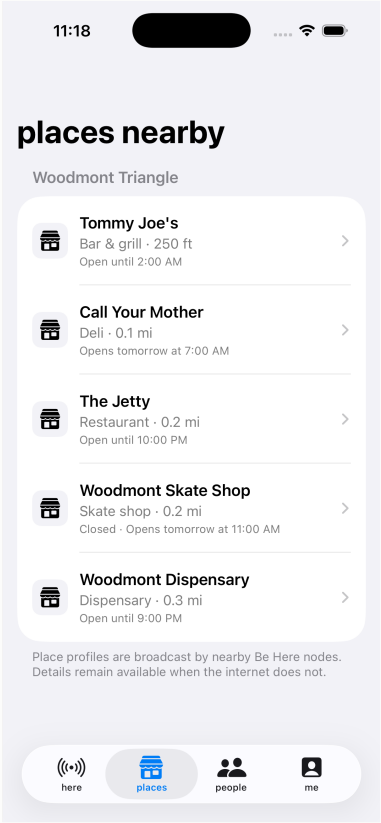
be here

A local social network carried by nearby phones.

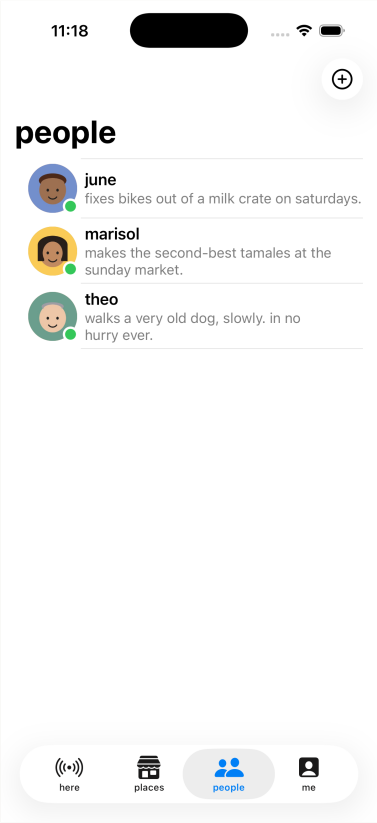
be here moves posts and messages directly between nearby phones over Bluetooth. It needs no account, central server, or internet connection.



Here



Places



People

Posts, profiles, walls, group chats, and private messages move directly between nearby phones over Bluetooth. Each phone also relays what it hears, so a crowded room becomes one network and a neighborhood carries its own conversation from person to person.

The network belongs to the people who are present. Its history is stored on their phones rather than in a company's cloud. Identity comes from a keypair that never leaves the device, private messages are encrypted, and the identifier a phone broadcasts changes every 15 minutes.

The protocol is written once in Rust and used by both the iPhone app and browser demo. It has been tested against dropped packets, crowded radio space, people coming and going, and fake identities. In a simulated stadium of 800 phones, one post required about 180 transmissions instead of 24,600.

Where this goes: anywhere you are, you open the app and the place comes alive around you. Neighbors, farmers-market vendors, shops and restaurants, the community association, the fire department — whoever is nearby can broadcast to the phones around them, and the people holding those phones can follow events, catch specials and offers, chat, and trade, all over the local mesh, off the grid, with no accounts and every message encrypted end to end. Version one is on the App Store; version two launches the first off-grid neighborhood.

WHAT IT IS
Serverless proximity social network · iOS

OPERATING RANGE

CORE
Rust protocol library · Noise encryption · rotating identifiers

STATUS
v1 on the App Store · v2 launches the first off-grid neighborhood

GET IT
App Store

VISIT
behere.chat

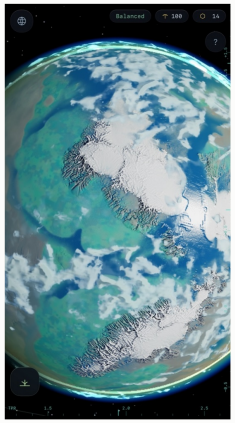
A hop is ~10–60 m · relayed onward by every phone · neighborhoods at walking pace

Emergent.D

A planet-building game governed by one simulation.

Emergent.D lets players sculpt terrain, move water, grow life, and mine resources on a simulated planet. Every action changes the same physical world and its future capacity to recover.

Terra Prime



The core is a fluid and particle simulation built in Metal. Terrain, rivers, ice, clouds, and vegetation respond to the same world state rather than running as separate visual effects.

The economy is tied to the simulation. Mining produces gold but damages the ecosystem that makes future mining possible. Satellites use real orbital parameters and affect only the ground they pass over.

The browser version uses React, Three.js, WebGPU, and a WebGL2 fallback. Each persistent planet has an authoritative server process that hibernates when empty and advances the world while players are away.

Gold is controlled by the server through an append-only ledger. Player actions are sent as compact brush operations and replayed for verification, while arcade scores that award currency are checked server-side.

WHAT IT IS
iOS simulation game · released Feb 2026

ENGINE
Metal fluid & particle simulation

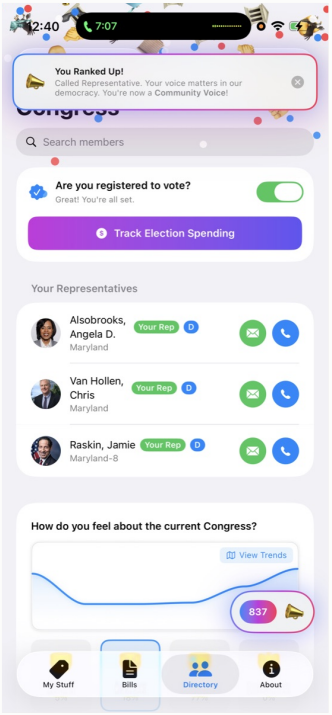
GET IT
App Store

VISIT
emergent-d.com

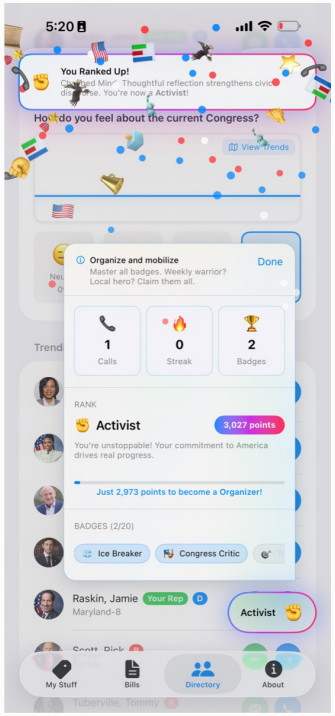
Touch Advocacy

A simpler way to call and write Congress.

Touch starts with your representatives and two actions: call or write. It removes the terminology and onboarding that make civic participation feel reserved for professionals.



Your representatives



Ranks and badges

The app starts with the people who represent you and two familiar actions: call or write. It removes the jargon, issue catalogs, forms, and long onboarding flows that make advocacy feel like something reserved for professionals.

On-device Apple Intelligence helps people understand bills and campaign finance in plain language. Survey results and Census data add context about public opinion and the communities affected, so people can decide what matters to them before taking action.

Verified location connects each person to the correct district and representatives. Calls and messages move through the tools people already know, while Touch records completed actions without requiring an extra confirmation step.

Ranks, badges, and streaks keep people engaged and help occasional participation become a regular civic habit. Only completed actions count, so the system rewards real participation rather than taps inside the app.

WHAT IT IS
Accessible civic participation for iPhone

CONTEXT
On-device Apple Intelligence · surveys · Census data

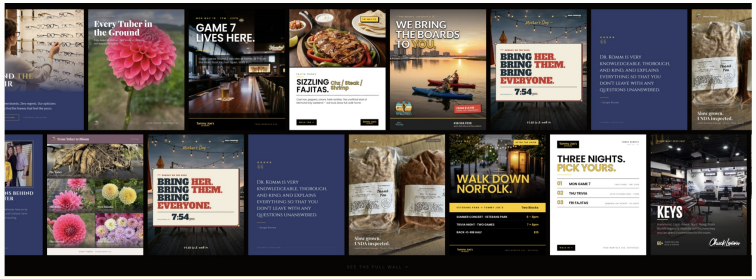
PARTICIPATION
Verified location · calls · messages · civic streaks

GET IT
App Store

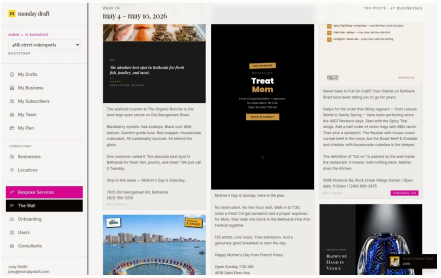
Monday Draft

A production system for recurring client work.

Monday Draft connects local AI agents to briefs, source material, review, approval, delivery, and measurement. Each completed cycle informs the next one.



One week across every market



Most AI content tools stop after generating a draft. Monday Draft keeps the context around the work: the brand, market, template, source material, review history, performance, and what should change next time.

A local agent runtime produces typed artifacts. The web app handles client onboarding, review, approval, billing, and delivery. Quality gates can send weak work back through the run instead of simply flagging it.

Modules can publish independently, and each cycle feeds its results into the next brief. The goal is not more content. It is a production system that becomes more useful with each week.

WHAT IT IS
AI-native production system for client deliverables

SHAPE
Local agent runtime + web app as one pipeline

FIRST-CLASS
Brands · locations · artifacts · runs · approvals · memory

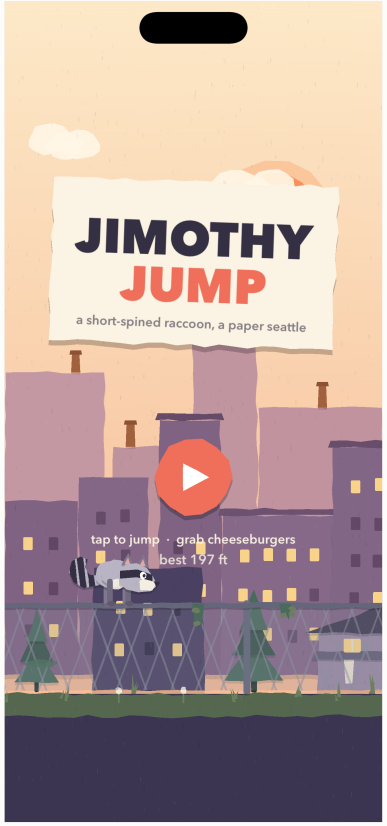
THE LOOP
Brief · produce · QA gate · review · approve · measure

VISIT
mondaydraft.com

Jimothy Jump

A one-day iPhone game about a real Seattle raccoon.

Jimothy Jump is an endless runner based on the short-spined raccoon that became an internet celebrity in 2026. The game, artwork, website, localized store listing, and submission were completed in one day.



Title

Mid-run

Store screenshot

The character and setting follow the real story: a raccoon with short-spine syndrome and the Seattle backyards he was filmed in. Mt. Rainier sits on the horizon, the Space Needle appears in the skyline, and the fences vary among weathered wood, chain-link, and picket, each at its own height.

All art is generated in code: jittered vector paths for a cut-paper edge, layered drop shadows, and a grain pass. The app ships no drawn assets, and the icon is produced by a script from the same toolkit. Player movement uses hand-written physics with rectangle collision after SpriteKit's body simulation proved unreliable for this design.

One tap jumps and a second tap double-jumps; distance is the score. Game Center provides leaderboards for longest run and burgers collected in a run. The game, the marketing site, and an App Store listing localized in English, Japanese, and Simplified Chinese went from nothing to submitted in one day.

WHAT IT IS
iOS endless runner · in App Review

SETTING
Papercut Seattle · Rainier · Space Needle

ART
All shapes generated in code

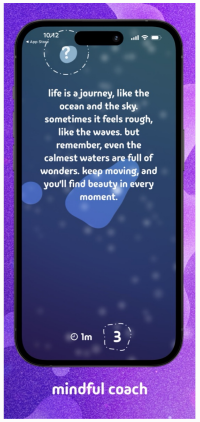
VISIT
jimothyjump.com

Amieeba

A private digital fidget toy.

Amieeba combines fluid motion, sound, and haptics for repetitive sensory play on iPhone and iPad. It costs 99 cents and has no advertising, subscription, account, or data collection.

Amieeba



The experience is built around sensory play rather than competition. You stretch, split, merge, and reshape a fluid form while bubbles respond with crisp sound and a satisfying haptic click.

The score and timer provide a light rhythm to the session, not a game to win. As the screen fills and rewards build, pressing and holding releases the form in an explosion of fluid motion—a digital exhale before starting again.

Amieeba is designed as a safe, calming break for adults and children. It has no advertising, no subscription, and collects no data. The app costs $0.99 once.

WHAT IT IS
Mindful digital fidget toy · $0.99, once

BUILT WITH
Fluid physics · Core Haptics · spatial audio

PRIVACY
No ads · no account · no data collection

GET IT
App Store

Oodl.ai

An art feed built from museum collections.

Oodl brings more than 100,000 open-access works from four museums into a simple iPhone feed. Recommendations run on the device, and every work retains its source, credit, and license.

Van Gogh · Cleveland

The app includes more than 100,000 works from the Met, the Art Institute of Chicago, the Cleveland Museum of Art, and the National Gallery of Denmark. Swipe up for another work or sideways to change collections.

Saved works shape recommendations on the device. You can also add your own photographs, identify subjects locally, and generate a short description without creating an account.

Every museum work keeps its credit, license, and link to the source collection. The app is free and does not include advertising or collect a personal profile.

WHAT IT IS
iOS art discovery · free

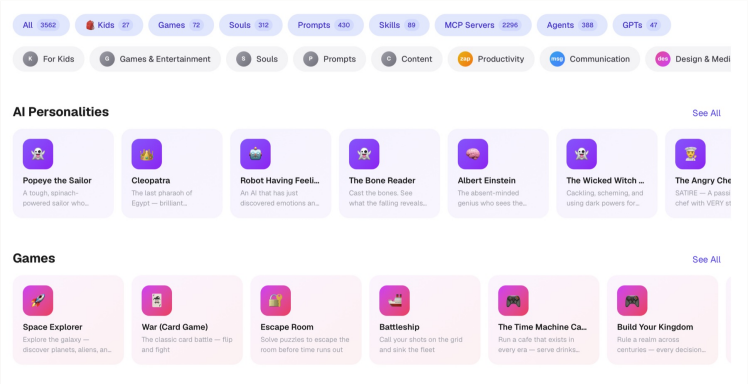
COLLECTION
100,000+ open-access works, four museums

GET IT
App Store

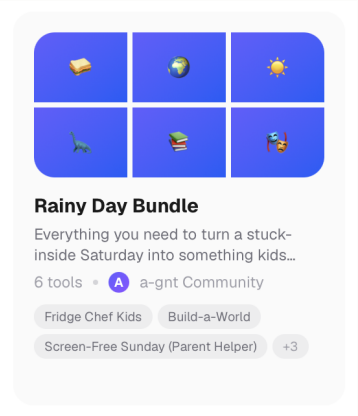
a-gnt

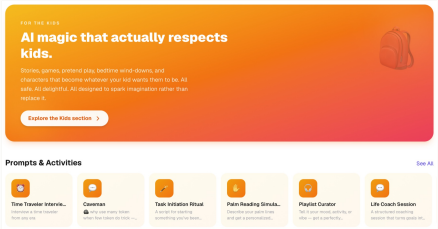
A browsable catalog of AI tools.

a-gnt organizes thousands of prompts, agents, games, personalities, and MCP servers by what they help someone accomplish.



Catalog





The catalog contains thousands of tools grouped by what a person is trying to accomplish rather than by technical format.

People can save tools into a personal library, combine them into shared collections called benches, and reach them from supported AI clients through the a-gnt MCP server.

The product is aimed at people who are interested but not yet fluent: families, teachers, students, and people changing careers.

WHAT IT IS
Curated discovery platform for AI tools

CATALOG
3,500+ tools · 2,200+ MCP servers

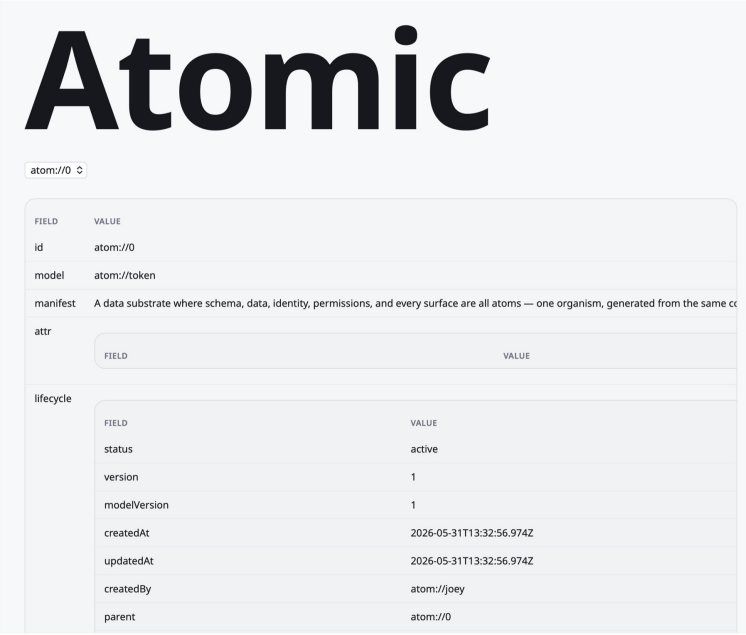
REACH IT FROM
Claude · ChatGPT · a-gnt MCP server

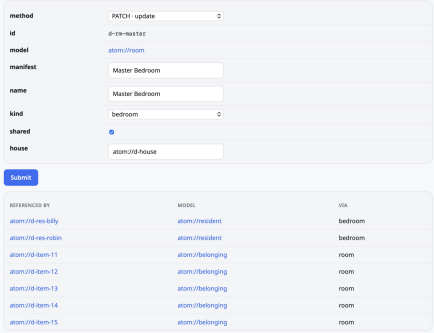
VISIT
a-gnt.com

Atomic

A relational application kernel built around one record type.

Atomic represents models, data, identities, permissions, queries, and logs with the same structure. From those records it derives interfaces, validation, APIs, imports, and audit history.





atom://0

Every record uses the same atom shape. Models, data, identities, permissions, queries, and logs are represented through that structure instead of separate subsystems.

From those models Atomic derives validation, forms, REST endpoints, imports, exports, tenant boundaries, and audit behavior. Relationships and reverse references are part of the core rather than added later.

The practical goal is to keep the ease of a lightweight database tool while giving the application a foundation that can handle connected data without collapsing into special cases.

WHAT IT IS
Graph-relational data substrate

THE IDEA
The ease of Airtable on a relational foundation

SOURCE
github.com/joey-io/atomic

Atomic Reason

A logic engine that identifies missing evidence.

Atomic Reason evaluates evidence against a stated goal. It reports which required questions are answered, unresolved, disputed, or contradicted.

```
/** UNDERSTANDING relative to a goal. Evaluate every goal-relevant slot, then reduce
 *  to a completeness fraction plus per-state worklists. `understanding` counts only
 *  `known` slots — the other four states are, by definition, not yet understood. */
export function understand(store, goal, opts = {}) {
  const slots = requiredSlots(store, goal).map((s) => ({
    ...s,
    ...slot(store, s.subject, s.predicate, opts),
  }));

  const by = (st) => slots.filter((s) => s.state === st);
  const known = by('known');

  return {
    goal: goal.id || goal.description,
    total: slots.length,
    understanding: slots.length ? known.length / slots.length : 1,
    counts: Object.fromEntries(STATES.map((st) => [st, by(st).length])),
    known,
    pending: by('pending'),
    gaps: by('gap'),
    tension: by('tension'),
    contradictions: by('contradiction'),
    slots,
  };
}
```

understand(store, goal)

A slot represents a question required by the goal. Assertions provide possible answers and evidence. Folding those assertions produces one of five states: known, pending, gap, tension, or contradiction.

Understanding is the share of required slots that are known. The remaining slots become a prioritized worklist instead of being hidden behind a confidence score.

The goal determines which questions matter. Domain-specific rules for required slots and incompatible answers are injected, so the same engine can be used with different kinds of evidence.

WHAT IT IS
Pure-logic reasoner over evidence records

THE FORMULA
Understanding = f(Evidence, Relationships, Time, Context, Goal)

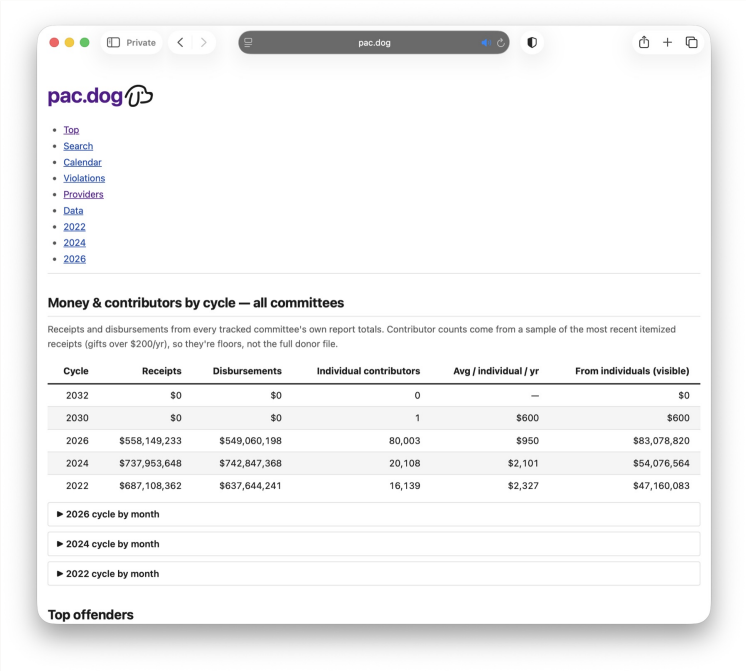
SLOT STATES
known · pending · gap · tension · contradiction

INTERFACE
Zero-dependency stdio MCP server

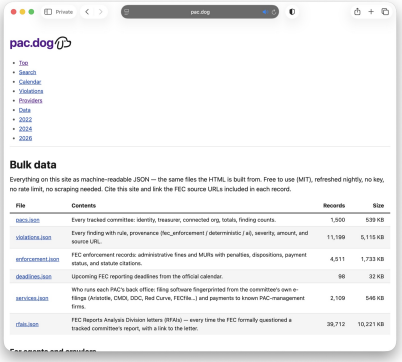
pac.dog

Open political data without the commercial interface.

pac.dog joins campaign-finance, committee, enforcement, and legislative records into a free website, open dataset, and MCP server.



Money and contributors by cycle



The underlying records are public, but using them usually requires downloading separate files, learning different schemas, and paying for a commercial interface. pac.dog models the records together and makes the relationships navigable.

The site includes committee filings, contributions, disbursements, votes, enforcement records, compliance material, and links back to original sources. An MCP interface lets an AI client query the same modeled data.

The bulk data used by the site is published openly, refreshed nightly, and available without an API key or rate limit.

WHAT IT IS
Free and open public affairs data platform

INTERFACE
Web · MCP server

VISIT
pac.dog

Obsat

Twenty-four sources queried from one coordinate.

Obsat asks weather, mapping, satellite, environmental, demographic, and scientific providers what they know about a location. It runs locally and preserves the source and raw response behind every result.

OBSAT.PROBE()

20 ANSWERED · 3 SKIPPED · 810 MS

PROBE BETHESDA, MARYLAND

COPY JSON


```
{
  "location": {
    "lat": 38.9847,
    "lon": -77.0947
  },
  "queriedAt": "2026-07-28T15:31:57.389Z",
  "sources": [
    "nominatim",
    "census-geographies",
    "census-acs",
    "sentinel-1",
    "sentinel-1-rtc",
    "sentinel-2",
    "landsat",
    "hls-landsat",
    "hls-sentinel",
    "usgs-earthquakes",
    "usgs-elevation",
    "open-meteo-elevation",
    "open-meteo",
    "open-meteo-air",
```


38.9847, -77.0947

61 OBSERVATIONS · OBSAT 0.3.0

One probe of Bethesda, Maryland — every adapter asked, the whole result printed

Twenty-four adapters ship with it, covering reverse geocoding, Census geographies, Sentinel and Landsat scene catalogs, ground elevation, weather, air quality, river discharge, earthquakes, species occurrence records, and EPA enforcement history. Twenty of them need no API key.

Every provider is normalized to the same record. An observation keeps its identifier, source, timestamp, geometry, properties, a link back to the provider, attribution, and the untouched response, so a result can be traced rather than trusted.

A provider that is down puts its error in the errors array and the remaining adapters still return. An adapter whose key is not set is held back before the request is made and reported as skipped, so a missing credential never reads as an outage.

The same runtime is a library, a command-line tool, and a local MCP server, so an AI client can probe a coordinate and reason from records that carry their own provenance.

WHAT IT IS
Local-first Earth-observation runtime

SOURCES
24 adapters · 20 need no key

INTERFACES
Library · CLI · local MCP server

SOURCE
github.com/joey-io/obsat