

# BWEB + AI

Building Web Apps with 4D

**bspoke**

4D Method User Group  
2026



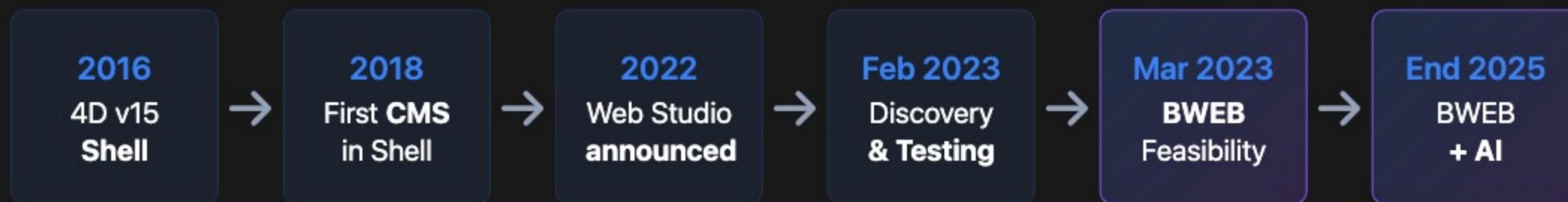
ACT 1

# The Journey

From Shell to BWEB



# Our timeline



# Shell — Where it started

## SVG Form Editor

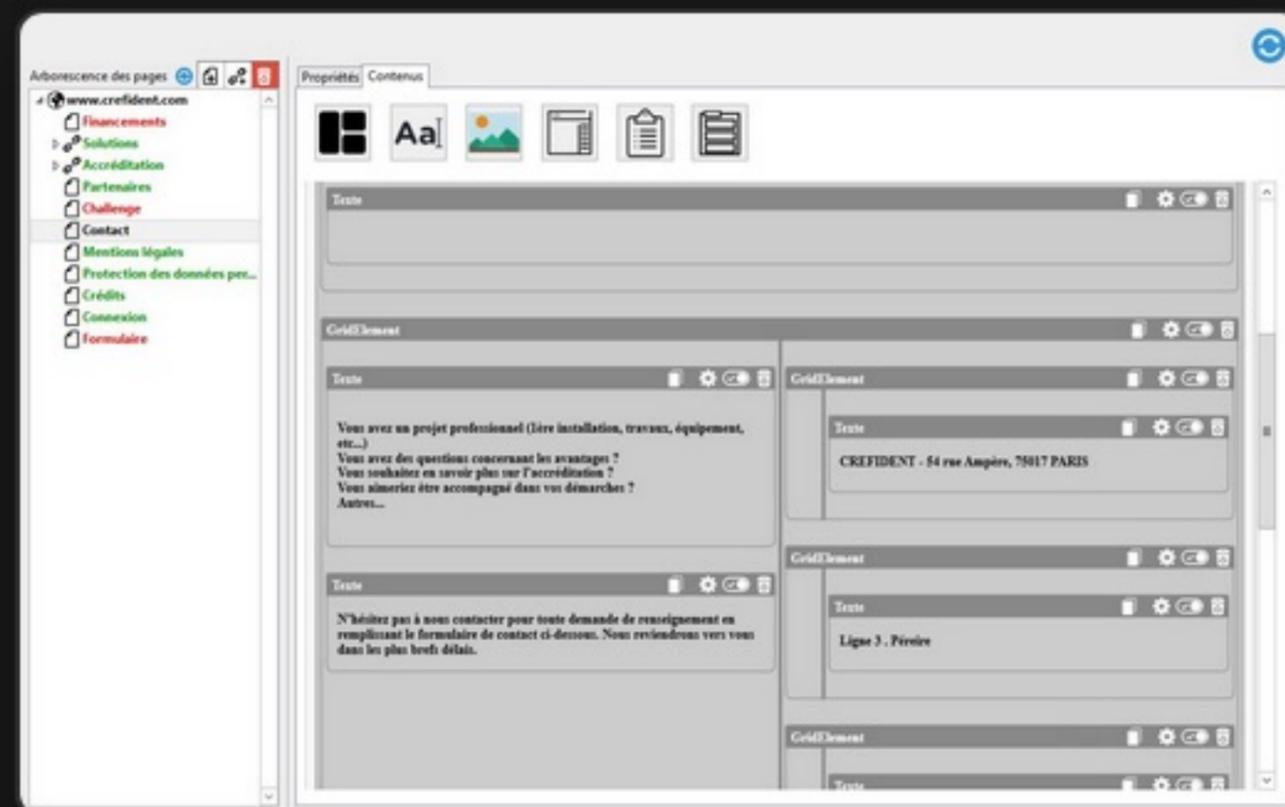
Draw web page elements in blocks with a 12-column Bootstrap grid.

## 4D PROCESS TAGS

Build HTML server-side and send to the browser.

## CMS Features

Inspired by Typo3. Customers build sites with their business data.



*The Shell editor — SVG blocks, page tree, GridElements*



# The problems

- > Need 4D Client to make any change. Then refresh. Then check.
- > Steep learning curve for new developers
- > Basic interface — all our time went into rendering
- > Every project = copy code from Shell repo. Messy. Hard to maintain.
- > Solution: **make it a component**



# Our business: customer portals

# 300K

users on our largest portal

- > Connected to ERPs and business applications
- > Online ordering, payments, invoice downloads
- > CMS for customers to build their own content
- > Public portals, not private internal apps



# Qodly: exciting, but...

## What we need

- > Public websites & portals
- > 300K+ external users
- > SEO, multi-domain
- > CMS capabilities
- > Full Tailwind CSS control

VS

## Qodly's sweet spot

- > Internal business apps
- > Small teams, dashboards
- > Integrated environment
- > Closed ecosystem
- > Managed hosting

Different business model. Different audience. We needed our own path.



# BWEB — The philosophy

*"You know 4D? Then you know BWEB."*

## 4D Component

Tables, methods, classes. Add to any existing project.



## Tailwind CSS

Utility-first CSS. Responsive. Modern design out of the box.



## WYSIWYG Editor

Drag & drop. Instant preview. Like a 4D form, but for the web.



## FormController

Connect web elements to 4D methods. ORDA-native.



LIVE DEMO

# Let's see it in action

From zero to a full blog — live.



ACT 2

# BWEB in Action

Building a blog from scratch



LIVE DEMO

# Installation & First Contact

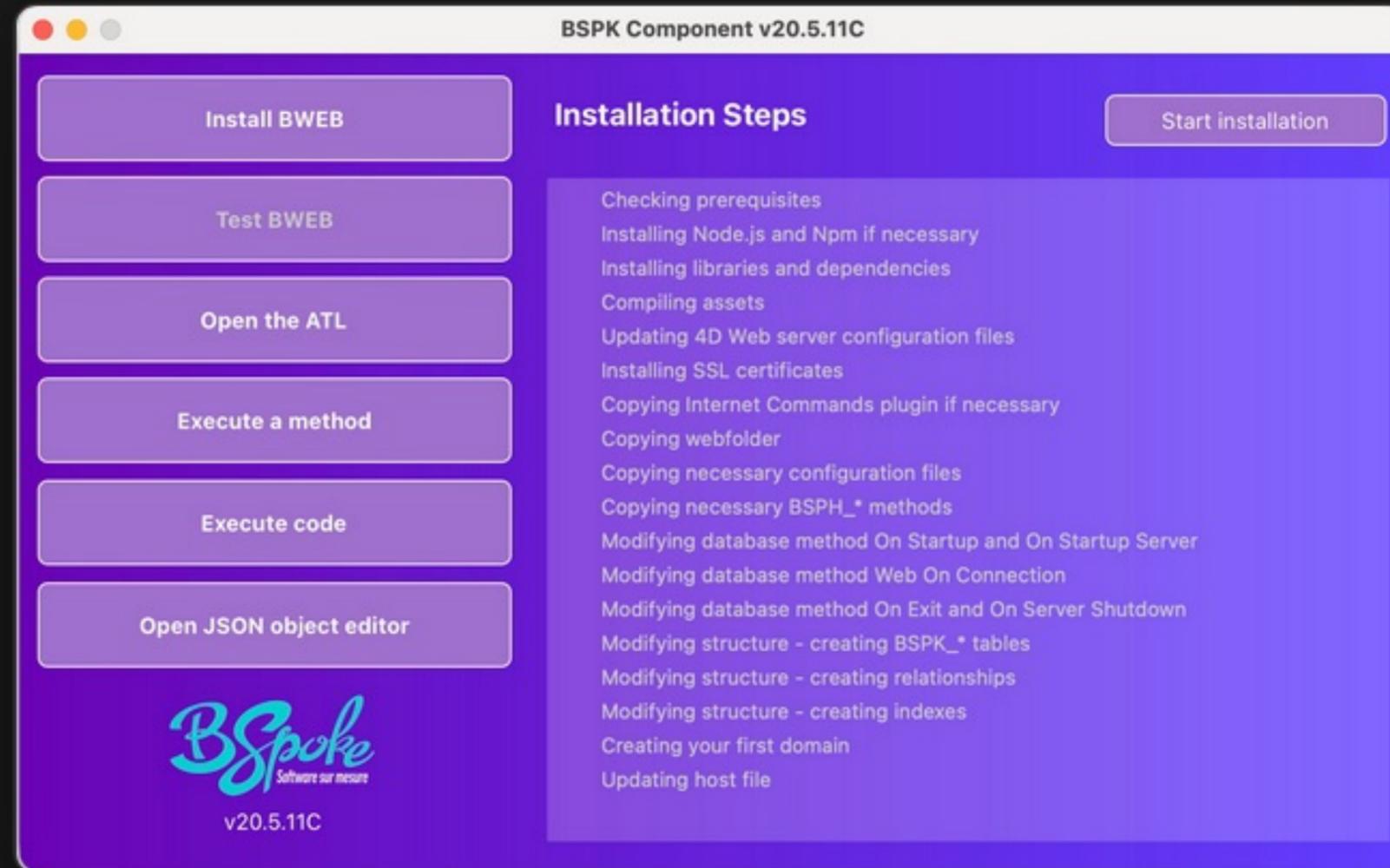
## Base 1 — Fresh project

- Run `BSPK_LAUNCH` → Install wizard
- First domain: `admin.myblog.fr`
- First login → Dashboard in 2 minutes
- Open **Dev Panel**: drag & drop a container, add text
- Instant preview in browser

*"Like a 4D form, but for the web."*



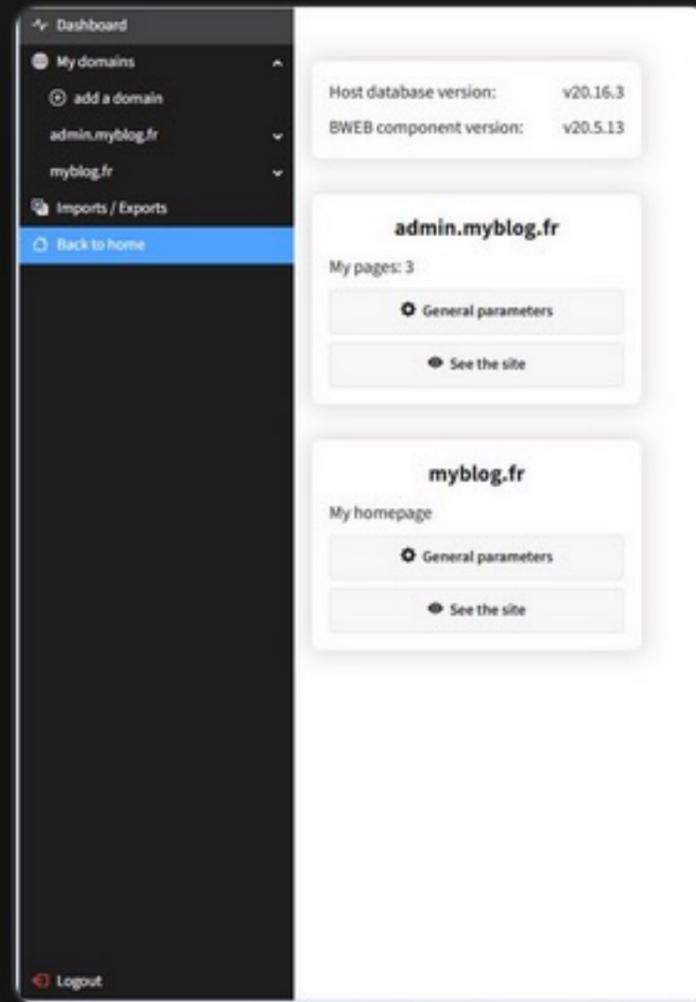
# The BSPK Launcher



*One-click install: Node.js, Tailwind, SSL certificates, tables, methods — all automated*



# The BWEB Dashboard



*Multi-domain management, version info, direct access to each site*



LIVE DEMO

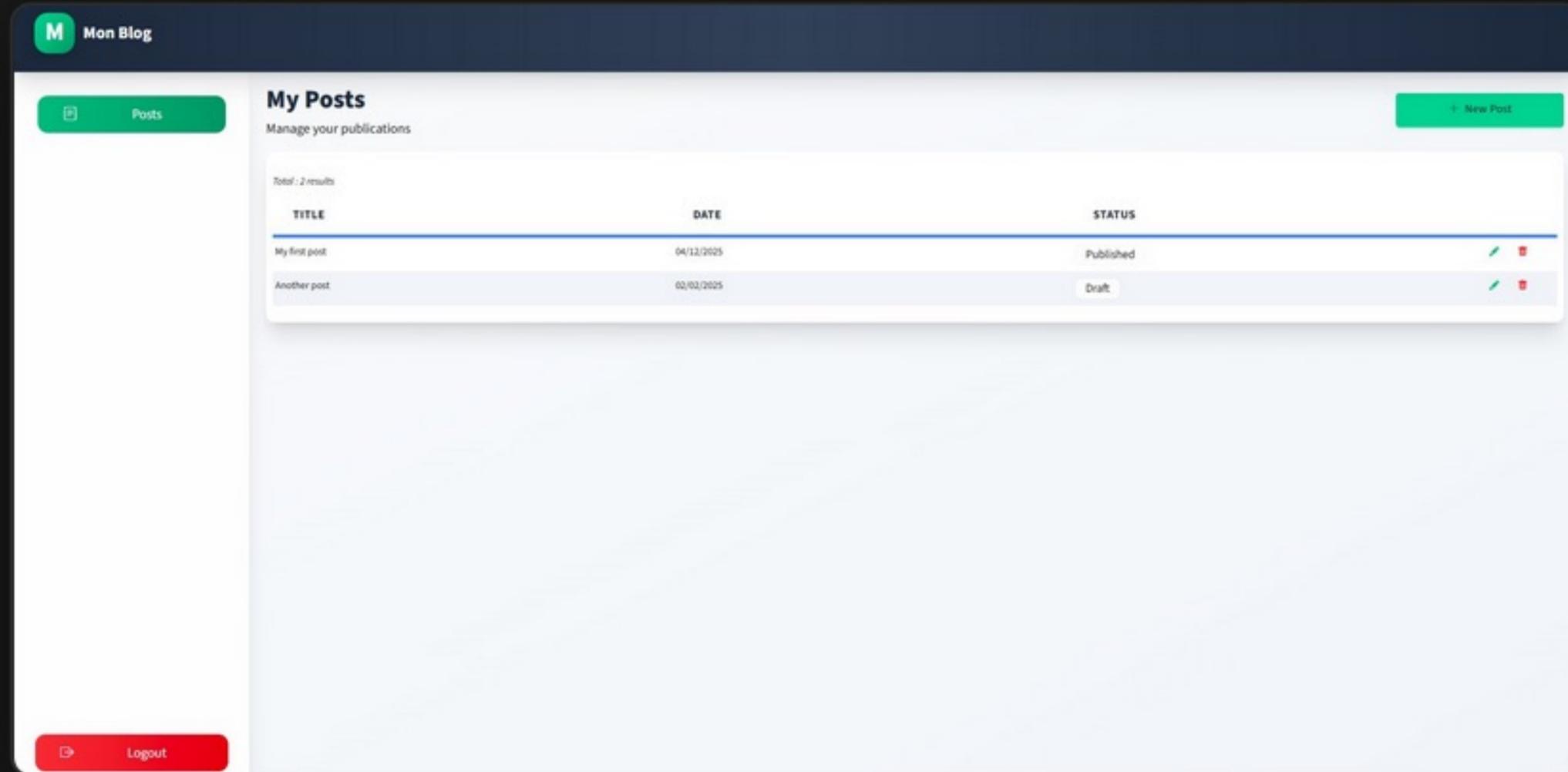
# The Back-Office

Base 2 — Admin complete

- Header with gradient, responsive sidebar
- Listbox connected to ORDA dataclass POST
- Formulas: `This.isPublished?"Published":"Draft"`
- Rich text editor (Quill) for article content
- Image upload, publish/draft toggle
- Create, edit, delete articles — all live



# The result: Blog Back-Office



*Sidebar navigation, posts listing with status badges, CRUD actions — built entirely in BWEB*



# Under the hood

## onclick events

**renderFunction** = client-side JS

**WebFormController** = server call to 4D

## Conditional display

Show/hide blocks based on state  
(Entity#null)

## Responsive breakpoints

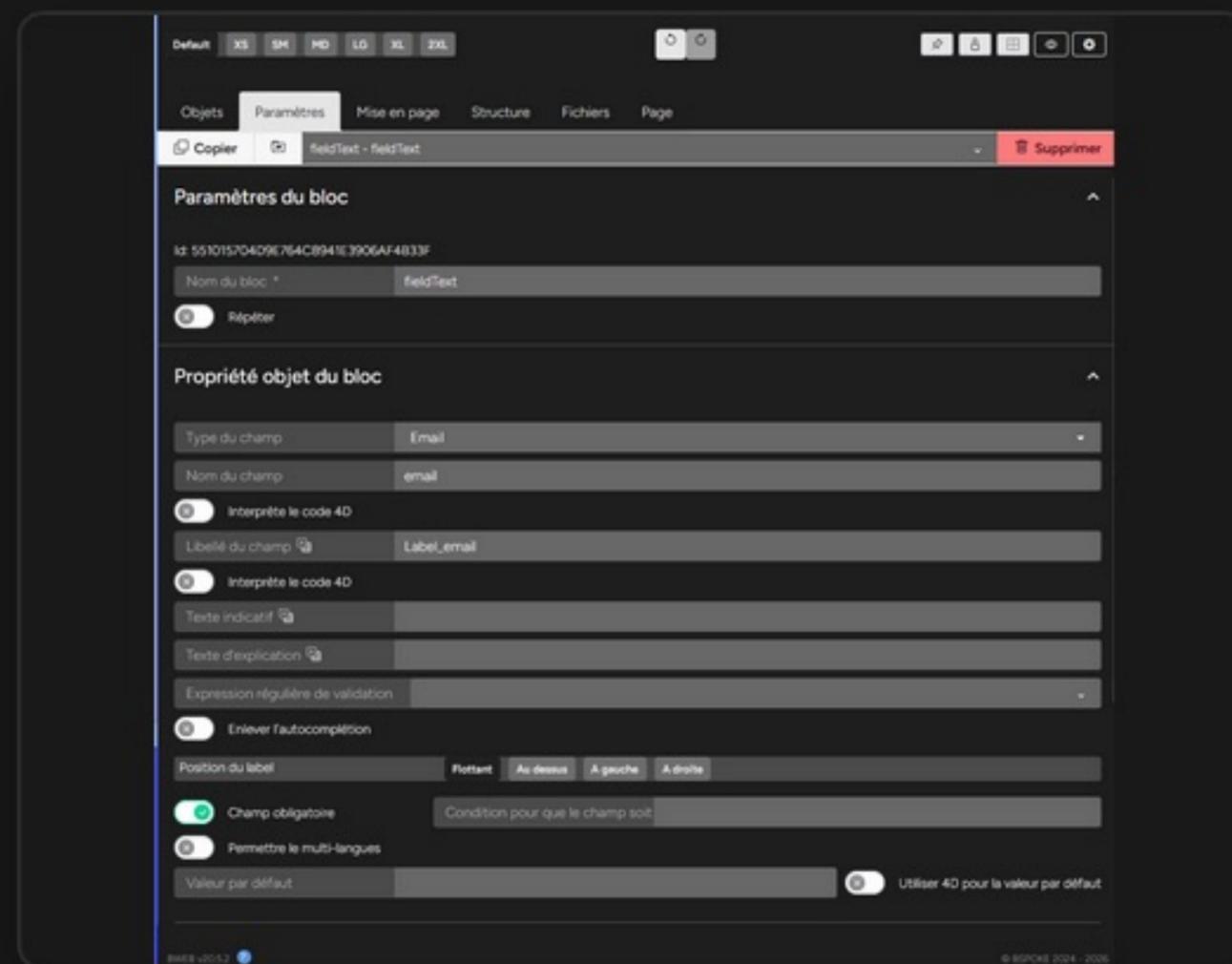
Tailwind: sm / md / lg / xl / 2xl

Mobile menu auto-toggle

## ORDA everywhere

DataClasses auto-generated between

/\*\*\* START BSPK \*\*\*/ markers



*The Dev Panel — breakpoints, object properties, field types, validation*



And then, everything changed.

# AI entered the workflow.

Our entire process transformed in 6 months.



ACT 3

# BWEB + AI

The game changer



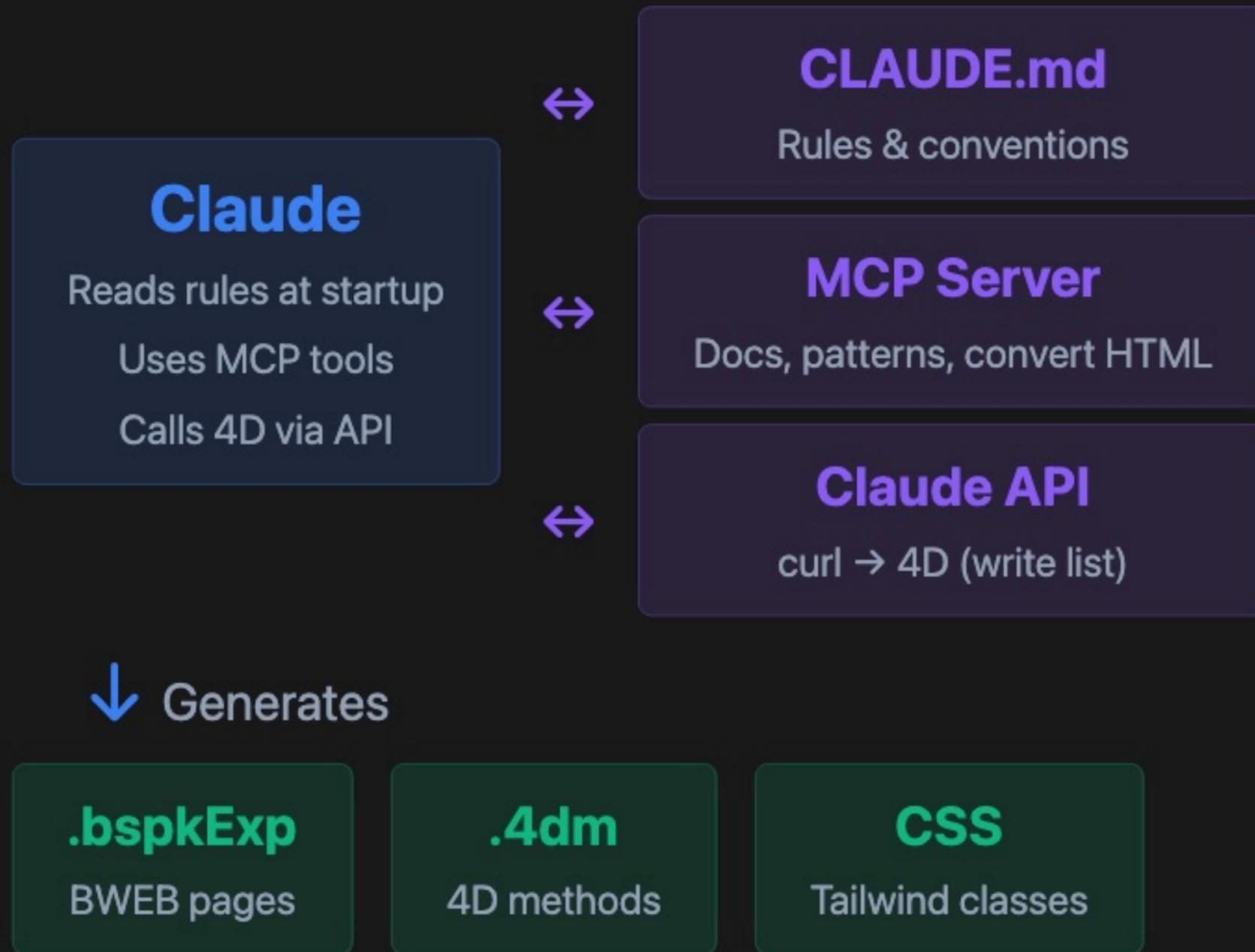
# A new paradigm

*"BWEB is no longer just a building tool.  
It's the framework that AI uses to build web apps  
consistently."*

We humans? We use BWEB to **maintain** those apps.



# How it all connects



*"We invested in documentation. It pays for itself — AI reads it too."*



# Teaching AI your framework

## The 3 entry points that make it work

### CLAUDE.md

Project instructions loaded at startup.

Rules, conventions, coding style.

**"Always use Tailwind"**

**"Use FormController for forms"**

Read before writing any code.

### MCP Server

Specialized tools Claude can call.

Search, get patterns, convert HTML.

**Bridge between Claude & BWEB.**

Actions, not just knowledge.

### Claude API

HTTP entry point built into the component.

Claude calls 4D directly via `curl`.

**Write list** restricts write access.

**AI reads everything, writes only where you allow.**

Without these entry points, AI generates generic code. **With them, it generates BWEB.**



# The MCP tools in detail

Claude connects to BWEB through specialized tools

## Claude API docs

Full documentation for the HTTP entry point  
(curl → 4D)

## search\_4d\_documentation

Search BWEB docs by keyword

## get\_4d\_pattern

Retrieve patterns: FormController, ORDA,  
listbox...

## search\_4d\_official

Search developer.4d.com for commands &  
classes

## read\_4d\_file

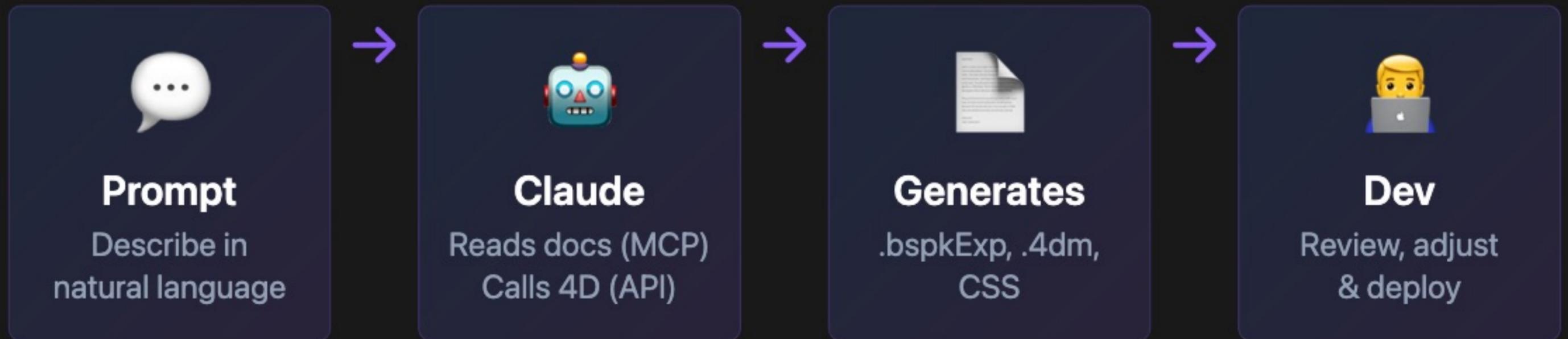
Read specific technical documentation files

## get\_4d\_context

Full context: instructions, rules, patterns index



# The AI workflow



# What it looks like

## You

Use MCP BSPOKE and Claude API for build a landing page for a restaurant with a hero section, a menu grid, and a reservation form. Use warm colors.

## Claude

I'll read the BWEB docs via MCP, then call the Claude API to create the page with warm amber/orange tones...

- ✓ `search_4d_documentation("landing page")`
- ✓ `curl -sk POST /_claude/exec`

## Claude

Done! The page has been created with:

- Hero with background image & CTA
- 6-item menu grid with prices
- Reservation form with date/time/guests
- Import `restaurant_landing.bspkExp` in your Dev Panel.



LIVE DEMO

# Let's build with AI

Base 4 — From prompt to page

- > Prompt Claude with MCP BSPOKE + Claude API
- > Claude reads docs, generates files, calls 4D
- > See the result instantly in BWEB
- > Fine-tune in the Dev Panel manually



ACT 4

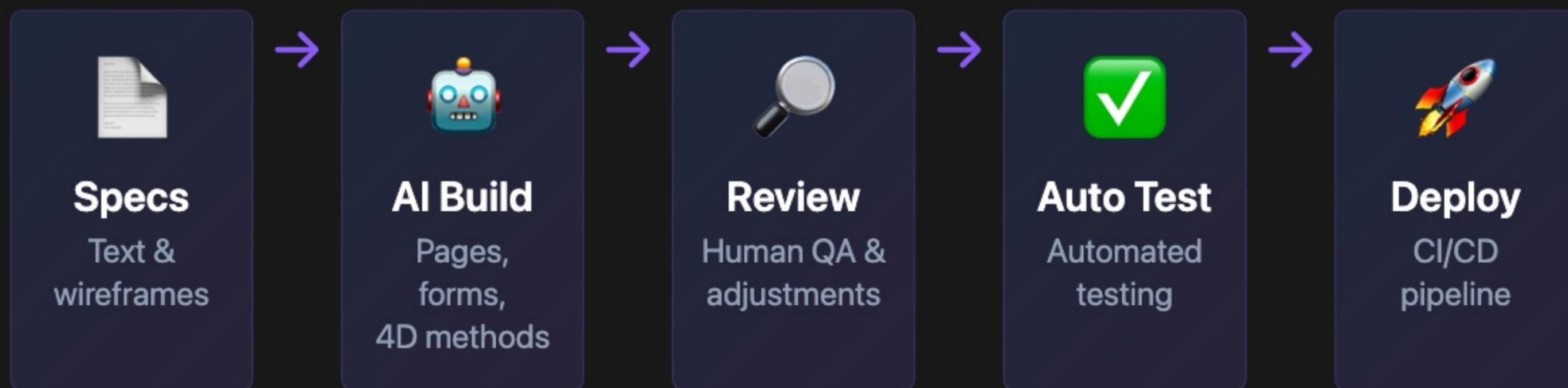
# What's Next

Roadmap & Community



# The full picture

Specs to production in a new way



*"Our entire process changed in 6 months — and counting."*



# Roadmap

- ✓ **BWEB Component & Editor**  
WYSIWYG, Tailwind, responsive, ORDA integration
- ✓ **MCP Server for AI**  
Documentation, patterns, Claude API docs
- **Beta Program**  
Testers since September 2025
- **Public release**  
Available to the full 4D community
- **More functionality**  
New features based on user needs



# Thank you!

Let's build the web with 4D.



Documentation

[doc.bspoke.fr/  
doc-bweb](https://doc.bspoke.fr/doc-bweb)



Quick Start

[doc.bspoke.fr/doc-bweb/  
quickstart-intro](https://doc.bspoke.fr/doc-bweb/quickstart-intro)



Website

[bspoke.fr](https://bspoke.fr)

