Pi

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Pi is a minimal and extensible coding agent.

Quick setup

```
ollama launch pi
```

This installs Pi if needed, configures Ollama as a provider including web tools, and drops you into an interactive session.

To configure without launching:

```
ollama launch pi --config
```

Run directly with a model

```
ollama launch pi --model qwen3.5:cloud
```

Cloud models are also available at ollama.com.

Extensions

Pi ships with four core tools: `read`, `write`, `edit`, and `bash`. All other capabilities are added through its extension system.

On-demand capability packages invoked via `/skill:name` commands.

Install from npm or git:

```
pi install npm:@foo/some-tools
pi install git:github.com/user/repo@v1
```

See all packages at pi.dev

Web search

Pi can use web search and fetch tools via the `@ollama/pi-web-search` package.

When launching Pi through Ollama, package install/update is managed automatically. To install manually:

```
pi install npm:@ollama/pi-web-search
```

Autoresearch with `pi-autoresearch`

pi-autoresearch brings autonomous experiment loops to Pi. Inspired by Karpathy's autoresearch, it turns any measurable metric into an optimization target: test speed, bundle size, build time, model training loss, Lighthouse scores.

```
pi install https://github.com/davebcn87/pi-autoresearch
```

Tell Pi what to optimize. It runs experiments, benchmarks each one, keeps improvements, reverts regressions, and repeats — all autonomously. A built-in dashboard tracks every run with confidence scoring to distinguish real gains from benchmark noise.

```
/autoresearch optimize unit test runtime
```

Each kept experiment is automatically committed. Each failed one is reverted. When you're done, Pi can group improvements into independent branches for clean review and merge.

Manual setup

Install

Install Pi:

```
npm install -g @earendil-works/pi-coding-agent
```

Add a configuration block to `~/.pi/agent/models.json`:

```
{
  "providers": {
    "ollama": {
      "baseUrl": "http://localhost:11434/v1",
      "api": "openai-completions",
      "apiKey": "ollama",
      "models": [
        {
          "id": "qwen3-coder"
        }
      ]
    }
  }
}
```

Update `~/.pi/agent/settings.json` to set the default provider:

```
{
  "defaultProvider": "ollama",
  "defaultModel": "qwen3-coder"
}
```

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