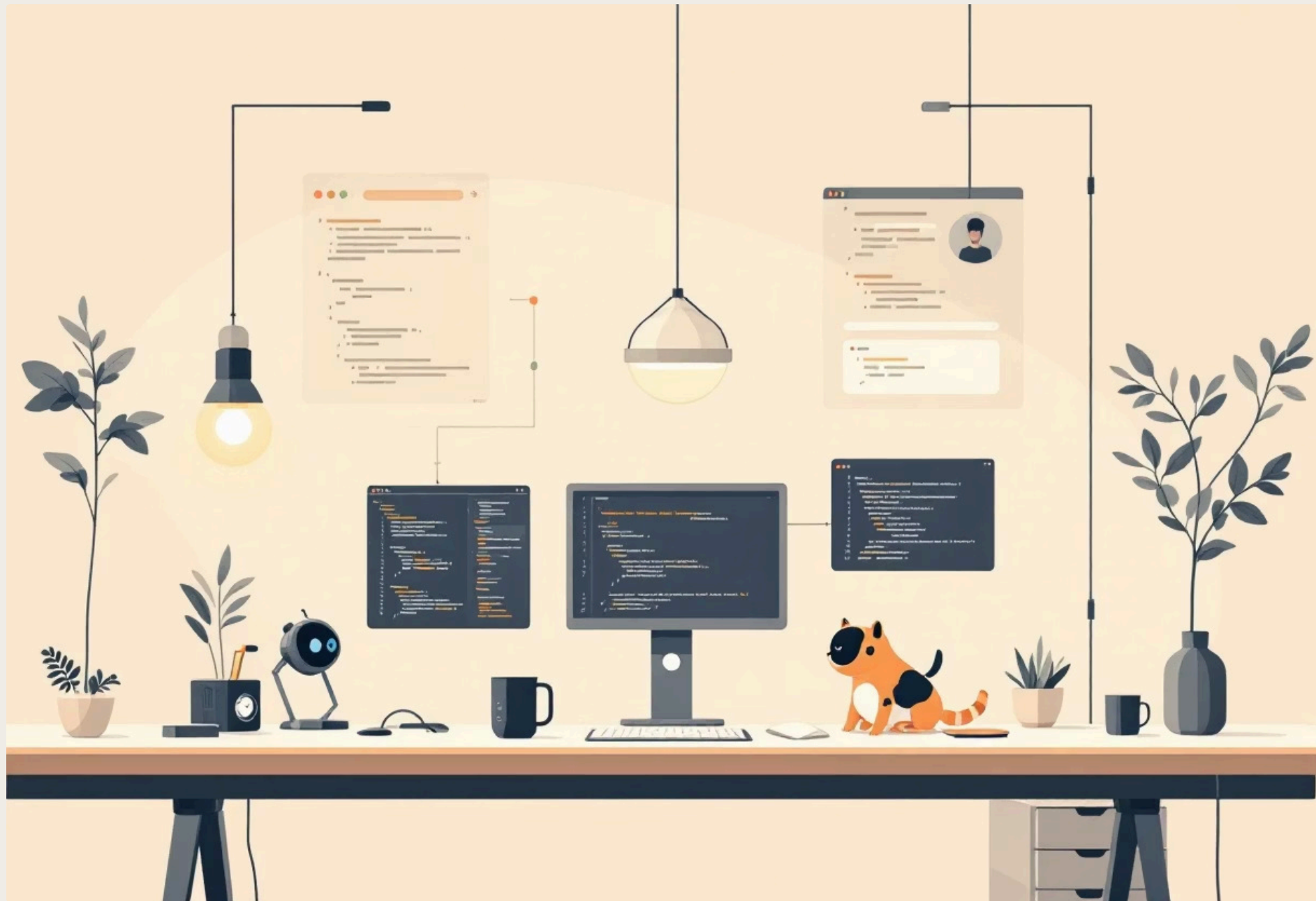


DevFlux AI Workflows



Setup & Usage Guide

Introduction

DevFlux AI Workflows are a systematic approach to using AI coding assistants that dramatically improves success rates from ~10% to 90%+.

Why These Workflows Work

AI coding assistants have predictable failure modes:

AI Failure Mode	Workflow Defense
Jumping to conclusions	Context-First mandatory stop
Hallucinating code paths	100% Validation Checklist
Losing track of goal	RE-ANCHOR at every step
Missing edge cases	Chronological Timeline Debugging
Assuming patterns	"Claims require evidence" with [file:line] citations

Quick Start

01

Download the Workflow Files

You should have these 6 workflow files:

- quick-fix.md
- complex-issue.md
- story-implementation.md
- bigcodechange.md
- release-upgrade.md
- test-writing.md

02

Install in Your IDE

Follow the IDE-specific instructions below.

03

Invoke a Workflow

Type `/quick-fix` or `/complex-issue` in your AI chat to start.

IDE Setup Instructions

Cursor Setup

Cursor uses Custom Slash Commands stored as Markdown files.

Project-Level Setup (Team Sharing)

Create the commands directory in your project:

```
your-project/
├── .cursor/
│   └── commands/
│       ├── quick-fix.md
│       ├── complex-issue.md
│       ├── story-implementation.md
│       ├── bigcodechange.md
│       ├── release-upgrade.md
│       └── test-writing.md
```

Steps:

```
# Create the directory
mkdir -p .cursor/commands

# Copy your workflow files
cp path/to/workflows/*.md .cursor/commands/
```

Commands stored here are:

- ✔ Version controlled with your project
- ✔ Shared with your team automatically
- ✔ Available when anyone opens the project

Global Setup (Personal Use)

Store commands in your home directory for use across all projects:

```
~/.cursor/
├── commands/
│   ├── quick-fix.md
│   ├── complex-issue.md
│   ├── story-implementation.md
│   ├── bigcodechange.md
│   ├── release-upgrade.md
│   └── test-writing.md
```

Steps:

```
# macOS/Linux
mkdir -p ~/.cursor/commands
cp path/to/workflows/*.md ~/.cursor/commands/

# Windows (PowerShell)
mkdir -Force "$env:USERPROFILE\.cursor\commands"
Copy-Item path\to\workflows\*.md "$env:USERPROFILE\.cursor\commands\"
```

Using Commands in Cursor

- Open Cursor's AI chat (Cmd+L / Ctrl+L) or Agent mode
- Type / to see all available commands
- Select your workflow (e.g., /quick-fix)
- The workflow instructions are inserted into the chat
- Add your specific context and press Enter



Windsurf Setup

Windsurf uses Workflows stored as Markdown files.

Global Setup

Store workflows in your Codeium user directory for use across ALL projects:

macOS

```
~/codeium/windsurf/global_workflows/
```

Full path:

```
/Users/<username>/codeium/windsurf/global_workflows/
```

Steps:

```
# Create the directory
mkdir -p
~/codeium/windsurf/global_workflows

# Copy your workflow files
cp path/to/workflows/*.md
~/codeium/windsurf/global_workflows/
```

Windows

```
C:\Users\
<username>\codeium\windsurf\global_workflows\
```

```
mkdir -Force
"$env:USERPROFILE\codeium\windsurf\global_workflows"
Copy-Item
path\to\workflows\*.md
"$env:USERPROFILE\codeium\windsurf\global_workflows\"
```

Linux

```
mkdir -p
~/codeium/windsurf/global_workflows
cp path/to/workflows/*.md
~/codeium/windsurf/global_workflows/
```

Using Workflows in Windsurf

- 1. Open Cascade (Cmd+L / Ctrl+L)
- 2. Type / followed by workflow name: /quick-fix
- 3. Press Enter to invoke
- 4. Add your specific context

Other AI Tools

Claude (API/Projects)

Claude Projects:

- 1. Create a new Project in claude.ai
- 2. Go to Project Knowledge
- 3. Upload all workflow files
- 4. Start conversations with: "Use the Complex Issue workflow"

Per-Conversation:

```
I want to use the Quick Fix workflow.

[paste workflow content]

Here's my issue: ...
```

GitHub Copilot Chat

Add to your prompt:

```
@workspace Follow this workflow:

[paste workflow content]

Issue: ...
```

Cline / Continue

Add workflows to your system prompt configuration or .continuerules file.

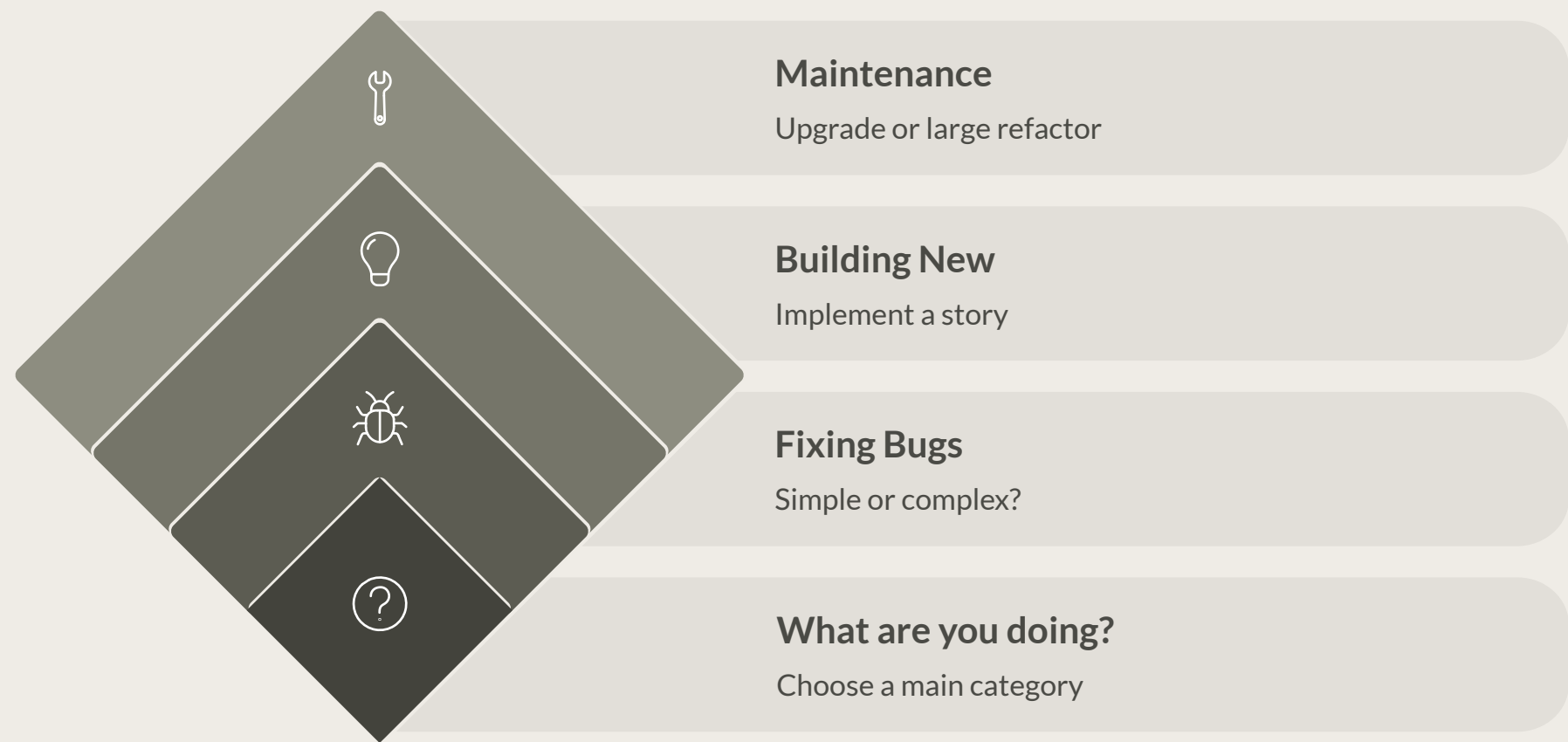
Aider

Add to your .aider.conf.yml or conventions file:

```
conventions: |
  Follow the DevFlux workflow system.
  [paste relevant workflow]
```

Workflow Overview

Choosing the Right Workflow



Quick Reference

Workflow	Use When	Invoke
Quick Fix	Simple bug, known area	/quick-fix
Complex Issue	Race conditions, intermittent bugs	/complex-issue
Story Implementation	New feature, user story	/story-implementation
Big Code Change	Refactor >10 files, migration	/bigcodechange
Release Upgrade	Bug after version upgrade	/release-upgrade
Test Writing	Adding/updating tests	/test-writing

Using the Workflows

Example: Quick Fix



Example: Complex Issue


Invoke:

/complex-issue

Issue: Payment sometimes fails during checkout
Frequency: ~5% of transactions
Scenario: High traffic periods, concurrent users

- The workflow will:
1. Gather Context → Ask detailed questions (STOP POINT)
 2. Map Call Chain → Create chronological timeline
 3. Analyze Flow → Trace data through the system
 4. Generate Hypotheses → At least 3, with evidence
 5. Validate 100% → Complete code reading checklist
 6. Present Findings → Only 100% validated hypotheses (STOP POINT)
 7. Plan Implementation → Phased approach with rollback points
 8. Implement → Execute plan, test each phase
 9. Verify → Compare actual vs planned changes
 10. Trigger Tests → Hand off to test-writing workflow

Key Concepts




TOON Format

All workflow artifacts use TOON (Token-Oriented Object Notation):

```
ISSUE_CONTEXT.toon
CALL_CHAIN.toon
HYPOTHESES.toon
IMPLEMENTATION_PLAN.toon
```

If unfamiliar, the AI will search for proper syntax before creating files.




Context-First Principle

Every workflow starts with understanding, not code search.

```
## Step 1: Gather Context (STOP POINT)

1. **STOP**: Ask the user questions
2. Create context document
3. **Do not proceed** until context is provided
```

This prevents AI from making assumptions.




RE-ANCHOR

Every step restates the goal explicitly:

```
**RE-ANCHOR**: Read `ISSUE_CONTEXT.toon`.
Output: "ISSUE: [one-line description]"
```

This prevents drift during long conversations.




STOP Points

Critical decision points requiring your approval:

```
## Step N: [Name] (STOP POINT)

1. **STOP**: Review the [artifact]
2. Approve to proceed
```

Never skip STOP points — they maintain your control.




// turbo

Steps marked // turbo chain automatically:

```
Step 2: Flow Analysis
// turbo
Step 3: Generate Hypotheses
// turbo
Step 4: Validate Hypotheses

Step 5: User Confirmation (STOP POINT) ← Stops here
```




100% Validation

Before presenting hypotheses:

```
**100% Validation Checklist**:
[ ] Every method: COMPLETE code read
[ ] Every variable: All usages traced
[ ] Every API call: Implementation verified
[ ] Every claim: [file:line] citation

**ONLY 100% VALIDATED hypotheses presented**
```



Auto-Detect Test Environment

Testing adapts to your project:

```
**Auto-Detect Test Environment**:
- Scan: package.json, pom.xml, requirements.txt, etc.
- Find existing test patterns
- Match framework, style, assertions exactly
- If unclear: ASK user
```


Best Practices

1. Answer Context Questions Thoroughly

✗ Bad: "It's broken sometimes"

✓ Good: "Payment fails ~5% of the time, only during high traffic (>100 concurrent users), started after we deployed the caching layer on Jan 15"

2. Don't Skip STOP Points

Even if confident:

- Catch AI mistakes early
- Prevent scope creep
- Maintain understanding

3. Use Git Tags for Rollback

```
git tag PRE_FIX_batch1
# If something goes wrong:
git reset --hard
PRE_FIX_batch1
```

4. Review Artifacts

The .toon files are valuable documentation:

- CALL_CHAIN.toon — System understanding
- HYPOTHESES.toon — Debugging record
- IMPLEMENTATION_PLAN.toon — Change log

Consider committing them.

5. Trust But Verify

Always:

- Run tests after changes
- Manual smoke test
- Code review the diff

Troubleshooting & Support

Common Issues

Workflows not appearing in IDE

- Verify file location matches IDE requirements
- Check file extensions are .md
- Restart IDE after adding files

AI not following workflow steps

- Ensure you're invoking with correct command
- Provide complete context at STOP points
- Re-invoke workflow if AI drifts

TOON files not being created

- AI will search for TOON syntax first
- Ensure workspace has write permissions
- Check if files are being created in correct directory

Support

For questions, customization, or team training:



DevFlux AI Workflow Consulting

Website: devflux.pro

Version 6.0 | DevFlux AI Workflows