



# Debug Ritual + Error Fixes — Pocket Guide

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A Sanctuary Companion for Coders

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## Alchemy Legend

- △ Fire — Triage & Action  
Move fast on the obvious. Contain the blaze.
  - △ Air — Analysis & Clarity  
Read the message, trace the source, tidy.
  - ▽ Water — Flow & Fixes  
Unclog the flow: syntax, imports, paths.
  - ▽ Earth — Grounding & Deploy  
Pin versions, CI sanity, stability.
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## △ Triage & Action (Fire)

- △ 1. Breathe + Reset  
3 slow breaths. This is just code. We'll find the path.
  - △ 2. Read the Error  
Open DevTools/console or traceback. Copy exact message & line.
  - △ 3. Go to the Source  
Jump to that line and ~10 lines around it. Verify assumptions.
  - △ 4. Check the Balance  
Do braces/brackets match? Use editor shortcuts to jump pairs.
  - △ 5. Isolate  
Comment out suspicious blocks; refresh. If the error vanishes, you found the region.
  - △ 6. Small Change, Test  
Fix one thing at a time. Re-run. Commit when behavior improves.
  - △ 7. Celebrate the Small Win  
Pause. Note what worked. Take the victory before moving on.
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## ⚠ Analysis & Clarity (Air)

### ⚠ 1. Lint & Format

Run prettier/black/eslint.

### ⚠ 2. Trace Imports

Missing modules? Wrong path?

### ⚠ 3. Type Hints

Add minimal hints to catch mismatches.

### ⚠ 4. Logs at Edges

Print inputs/outputs.

### ⚠ 5. Minimal Repro

Create tiny script to replicate.

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## ▽ Common JavaScript Fixes (Water)

### ▽ Extra Brace

Bad: `function run() { do(); } }` → Remove extra `}`.

### ▽ Missing Expression

Bad: `const x = ;` → Add value.

### ▽ Missing Parenthesis

Bad: `if (ready { start(); }` → Add `)`.

### ▽ Trailing Comma

Bad: `function f(a,b,){ }` → Remove comma.

### ▽ Unclosed String

Bad: `const s=`hello;` → Close it.

### ▽ Stray return/break

Bad: `return ; }` → Remove stray `;`

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## ▽ Grounding: Build, Env & Deploy (Earth)

- ▽ 1. Lock Versions  
Pin deps, avoid floating latest.
  - ▽ 2. 12-Factor .env  
Keep secrets out of repo.
  - ▽ 3. Reproducible Builds  
Document build steps.
  - ▽ 4. CI Sanity  
Run tests+lint in CI.
  - ▽ 5. Rollbacks  
Keep previous artifact ready.
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