ricet 0.3.0 -- Testing Results

Generated: 2026-02-02 17:52:33

Metric	Count
Total Tests	142
Passed	137
Expected Failures (missing credentials/tools)	5
Unexpected Failures	0

Prerequisites

[PASS]

```
$ ricet --version
ricet 0.3.0
```

1a. Basic init

[PASS]

```
$ cd /tmp/ricet-test &amp;&amp; ricet init demo-project
Creating project: demo-project

Step 0: Checking Python packages...
  All required packages available

Step 1: Detecting system...
Encyclopedia not found at knowledge/ENCYCLOPEDIA.md
  OS:      Linux #53-Ubuntu SMP PREEMPT_DYNAMIC Sat Jan 11 00:06:25 UTC 2025
  Python:  3.12.6
  CPU:     x86_64
  RAM:     123.5 GB
  GPU:     NVIDIA Corporation AD104 [GeForce RTX 4070] (rev a1) + Advanced Micro
Devices, Inc. [AMD/ATI] Device 13c0 (rev c1) (via lspci)
  Compute: local-gpu (auto-detected)
  Conda:   Available

Step 2: Setting up claude-flow...
  claude-flow is ready

Step 2b: Checking Claude authentication...
  Claude CLI available
  If not yet logged in, run: claude auth login

Step 3: Project configuration
Notification method (email, slack, none) [none]: Target journal or conference (or 'skip') [skip]: Do you need a web dashboard? (
Step 3b: API credentials
  Press Enter to skip any credential you don't have yet.
  Press Enter to skip any credential you don't have yet.

  --- Essential credentials (Enter to skip any) ---
  Most users: SKIP this — ricet uses your Claude subscription via 'claude auth
login'.
  Only for direct API calls (billed separately): https://console.anthropic.com/
→ API Keys
Anthropic API key [PAID, skip unless you need direct API access] (ANTHROPIC_API_KEY):   Option A (recommended): Skip — use SSH k
... (78 more lines)
```

1b. Init with skip-repo

[PASS]

```
$ cd /tmp/ricet-test &amp;&amp; ricet init test-skip --path /tmp/ricet-test --skip-repo
Creating project: test-skip

Step 0: Checking Python packages...
```

```
  All required packages available

Step 1: Detecting system...
Encyclopedia not found at knowledge/ENCYCLOPEDIA.md
  OS:      Linux #53-Ubuntu SMP PREEMPT_DYNAMIC Sat Jan 11 00:06:25 UTC 2025
  Python:  3.12.6
  CPU:     x86_64
  RAM:     123.5 GB
  GPU:     NVIDIA Corporation AD104 [GeForce RTX 4070] (rev a1) + Advanced Micro
Devices, Inc. [AMD/ATI] Device 13c0 (rev c1) (via lspci)
  Compute: local-gpu (auto-detected)
  Conda:   Available

Step 2: Setting up claude-flow...
  claude-flow is ready

Step 2b: Checking Claude authentication...
  Claude CLI available
  If not yet logged in, run: claude auth login

Step 3: Project configuration
Notification method (email, slack, none) [none]: Target journal or conference (or 'skip') [skip]: Do you need a web dashboard? (
Step 3b: API credentials
  Press Enter to skip any credential you don't have yet.
  Press Enter to skip any credential you don't have yet.

  --- Essential credentials (Enter to skip any) ---
  Most users: SKIP this — ricet uses your Claude subscription via 'claude auth
login'.
  Only for direct API calls (billed separately): https://console.anthropic.com/
→ API Keys
Anthropic API key [PAID, skip unless you need direct API access] (ANTHROPIC_API_KEY):   Option A (recommended): Skip — use SSH k
... (72 more lines)
```

1c. Verify agents dir

[PASS]

```
$ ls -la /tmp/ricet-test/demo-project/.claude/agents/
total 36
drwxr-xr-x 2 fusar uplamanno 4096 Feb  1 18:16 .
drwxr-xr-x 5 fusar uplamanno 4096 Feb  1 18:46 ..
-rw-r--r-- 1 fusar uplamanno 1475 Feb  1 18:16 cleaner.md
-rw-r--r-- 1 fusar uplamanno  745 Feb  1 18:16 coder.md
-rw-r--r-- 1 fusar uplamanno 1580 Feb  1 18:16 falsifier.md
-rw-r--r-- 1 fusar uplamanno  999 Feb  1 18:16 master.md
-rw-r--r-- 1 fusar uplamanno 1066 Feb  1 18:16 researcher.md
-rw-r--r-- 1 fusar uplamanno 1279 Feb  1 18:16 reviewer.md
-rw-r--r-- 1 fusar uplamanno 1542 Feb  1 18:16 writer.md
```

1c. Verify GOAL.md

[PASS]

```
$ head -5 /tmp/ricet-test/demo-project/knowledge/GOAL.md
# Project Goal

## One-Liner
(See GOAL.md — edit with your detailed project description)
```

1c. Verify settings.yml

[PASS]

```
$ head -5 /tmp/ricet-test/demo-project/config/settings.yml
project:
  name: demo-project
  created: '2026-02-02T17:32:18.501370'
compute:
  type: local-gpu
```

2. Config view

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet config
Current Settings:
compute:
  gpu: NVIDIA Corporation AD104 [GeForce RTX 4070] (rev a1) + Advanced Micro
Devices,
    Inc. [AMD/ATI] Device 13c0 (rev c1) (via lspci)
  type: local-gpu
credentials: {}
environment:
  name: ricet-demo-project
  path: ''
  python: /home/fusar/mambaforge/envs/ricet-demo-project/bin/python
  type: mamba
features:
  mobile: false
  website: false
notifications:
  enabled: false
  method: none
project:
  created: '2026-02-02T17:32:18.501370'
  name: demo-project
```

4. Project status

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet status
TODO:
# TODO

- [ ] Define a one-liner project description in `knowledge/GOAL.md`
- [ ] Specify concrete success criteria replacing the placeholder items
- [ ] Set a timeline constraint
- [ ] Set a compute budget constraint
- [ ] List required tools/libraries under "Must use"
- [ ] List prohibited tools/libraries under "Must NOT"
- [ ] Define the first task to work on
- [ ] Add any hard rules to `knowledge/CONSTRAINTS.md`
- [ ] Upload or link relevant reference papers to `reference/papers/`
- [ ] Uplo

Progress:
# Progress



Claude-Flow:
  Version: claude-flow v3.1.0-alpha.3
```

5. List sessions

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet list-sessions
No sessions found
```

6. Agent status

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet agents
No agent definitions found

Running Agents via claude-flow (58):
  agent-1769966313935-9qm1k4 (coder) - idle [haiku]
  agent-1769966348846-rjxjv8 (coder) - idle [haiku]
  agent-1769966558928-wu0btk (coder) - idle [haiku]
  agent-1769966611928-25pbmk (coder) - idle [haiku]
  agent-1769966642237-51u2io (coder) - idle [haiku]
  agent-1769966773415-h3j77a (coder) - idle [haiku]
  agent-1769966802761-gsn7er (coder) - idle [haiku]
  agent-1769967777174-x252lp (coder) - idle [haiku]
```

```
  agent-1769968020560-x8jbbt (coder) - idle [haiku]
  agent-1769968325219-44ps77 (coder) - idle [haiku]
  agent-1769968483733-5e4dgq (coder) - idle [haiku]
  agent-1769969568752-wu2ph9 (coder) - idle [haiku]
  agent-1769969779001-2a3hvr (coder) - idle [haiku]
  agent-1769970240162-fuzyey (coder) - idle [haiku]
  agent-1769972004647-d52l83 (coder) - idle [haiku]
  agent-1769972010078-nncxi9 (coder) - idle [haiku]
  agent-1769972625039-g470r9 (coder) - idle [haiku]
  agent-1769972982788-kvlw4j (coder) - idle [haiku]
  agent-1769973057220-pgekxt (coder) - idle [haiku]
  agent-1769980935873-3xh0zc (coder) - idle [haiku]
  agent-1769981913025-spliw2 (coder) - idle [haiku]
  agent-1769982501818-eiquw7 (coder) - idle [haiku]
  agent-1769982745221-ctdkm0 (coder) - idle [haiku]
  agent-1769984195323-9fq091 (coder) - idle [haiku]
  agent-1769984253681-ocwst9 (coder) - idle [haiku]
  agent-1769985168913-nl77vo (coder) - idle [haiku]
  agent-1769985248875-cw2u23 (coder) - idle [haiku]
  agent-1769986324628-h8nehb (coder) - idle [haiku]
  agent-1769986378110-toahxw (coder) - idle [haiku]
  agent-1770016817915-18s5a7 (coder) - idle [haiku]
  agent-1770017200301-jmrdcj (coder) - idle [haiku]
  agent-1770017425344-pb1fwr (coder) - idle [haiku]
... (26 more lines)
```

7a. Log decision

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet memory log-decision 'Use Adam optimizer with lr=0.001 based o
Decision logged: Use Adam optimizer with lr=0.001 based on initial experiments
```

7b. Memory search

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet memory search 'optimizer' --top-k 3
claude-flow not available. Using keyword search.
  - [2026-02-02 17:33] (lucafusarbassini1@gmail.com) Use Adam optimizer with
lr=0.001 based on initial experiments -- Rationale: Recorded via CLI
```

7c. Memory export

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet memory export
Knowledge exported to knowledge/demo-project_export.json
```

7d. Memory stats

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet memory stats
Encyclopedia stats:
  Tricks: 0 entries
  Decisions: 1 entries
  What Works: 0 entries
  What Doesn't Work: 0 entries
```

8. Metrics

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet metrics
Performance Metrics:
  agents: {}
  status: unknown
```

9a. Paper check

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet paper check
Checking paper...
Missing figures:
  - figures/placeholder.pdf

Citations: 1
```

9b. Paper build

[EXPECTED FAIL]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet paper build
Checking LaTeX dependencies...
Required LaTeX tools not found:
  - pdflatex: LaTeX compiler (core)
  - bibtex: Bibliography processor
Install with:
  sudo apt install texlive-full  # Debian/Ubuntu
  sudo dnf install texlive-scheme-full  # Fedora
  sudo pacman -S texlive  # Arch
Optional tools not found (non-fatal):
  - biber: Modern bibliography processor (BibLaTeX)
  - latexmk: Automated LaTeX build tool
  - dvips: DVI to PostScript converter
```

9c. Paper update

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet paper update
Updating paper references...
Current citations: 1
Use core.paper.add_citation() to add references.
```

9d. Paper modernize

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet paper modernize
Style analysis...
  Avg sentence length: 11.2 words
  Passive voice ratio: 0.02
  Hedging ratio: 0.0
  Vocabulary richness: 0.56
  Tense: present
```

9e. Paper adapt-style

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet paper adapt-style --reference /home/fusar/claude/research-aut
Adapting paper style from reference...

Source style:
  Avg sentence length: 11.2 words
  Passive voice ratio: 0.02
  Hedging ratio: 0.0
  Vocabulary richness: 0.56
  Tense: present

Target style:
  Avg sentence length: 11.1 words
  Passive voice ratio: 0.1
  Hedging ratio: 0.002
  Vocabulary richness: 0.19
  Tense: present

Adapted text written to paper/main_adapted.tex
```

10a. Citation search

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet cite 'attention mechanisms in transformers' --max 3
Searching: attention mechanisms in transformers
  + Wang2024: A Survey of Attention Mechanisms in Transformer Models
  + Rodriguez2024: Advances in Sparse Attention Mechanisms for Transformer
Architecture
  + Kumar2024: Efficient Transformer Attention: A Comprehensive Review of Recent
Innovations
```

10b. Discover

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet discover 'graph neural networks for drug discovery' --max 3
Searching PaperBoat for: graph neural networks for drug discovery

  1. GraphDTA: Deep Learning for Drug-Target Interaction Prediction Using Graph
Neural Networks
     Authors: Zhang et al.
     Year: 2025
     Abstract: Proposes a novel graph neural network approach to predict
drug-target interactions by representing molecular structures and protein
sequences as graph-based representations.
     URL: https://arxiv.org/abs/2025.12345

  2. MGNN-Drug: Multi-scale Graph Neural Networks for Precise Drug Candidate
Screening
     Authors: Liu et al.
     Year: 2025
     Abstract: Introduces a multi-scale graph neural network framework that
enhances drug discovery by capturing complex molecular interactions across
different structural scales.
     URL: https://arxiv.org/abs/2025.67890

  3. Explainable Graph Neural Networks in Pharmaceutical Compound Design
     Authors: Rodriguez and Kim
     Year: 2026
     Abstract: Develops an interpretable graph neural network model that not
only predicts drug efficacy but also provides insights into the molecular
features driving potential therapeutic outcomes.
     URL: https://arxiv.org/abs/2026.11223
```

10c. Discover with cite

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet discover 'large language model efficiency' --cite --max 2
Searching PaperBoat for: large language model efficiency

  1. Scaling Laws for Model Efficiency: Predicting Performance of Compressed
Language Models
     Authors: Zhang, L., Chen, X., &amp;amp; Goodman, N.
     Year: 2025
     Abstract: Investigates systematic approaches to model compression while
maintaining performance, proposing new scaling laws that predict efficiency
gains across different pruning and quantization techniques.
     URL: https://arxiv.org/abs/2025.01234

  2. LoRA++: Enhanced Low-Rank Adaptation for Efficient Large Language Model
Fine-Tuning
     Authors: Kumar, A., Patel, S., &amp;amp; Rodriguez, M.
     Year: 2025
     Abstract: Introduces an improved Low-Rank Adaptation method that
significantly reduces computational and memory overhead during fine-tuning of
large language models.
     URL: https://arxiv.org/abs/2025.05678
  + Added to bib: Zhang2025
  + Added to bib: Kumar2025
```

11. Browse

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet browse 'https://en.wikipedia.org/wiki/Attention_(machine_lear
Fetching: https://en.wikipedia.org/wiki/Attention_(machine_learning)
Jump to content Main menu Main menu move to sidebar hide Navigation Main page
Contents Current events Random article About Wikipedia Contact us Contribute
Help Learn to edit Community portal Recent changes Upload file Special pages
Search Search Appearance Donate Create account Log in Personal tools Donate
Create account Log in Contents move to sidebar hide (Top) 1 History 2 Overview
Toggle Overview subsection 2.1 Interpreting attention weights 3 Variants 4
Optimizations Toggle Optimizations subsection 4.1 Flash attention 4.2
FlexAttention 5 Applications Toggle Applications subsection 5.1 Attention maps
as explanations for vision transformers 6 Mathematical representation Toggle
Mathematical representation subsection 6.1 Standard scaled dot-product attention
6.2 Masked attention 6.3 Multi-head attention 6.4 Bahdanau (additive) attention
6.5 Luong attention (general) 6.6 Self-attention 6.7 Masking 7 See also 8
References 9 External links Toggle the table of contents Attention (machine
learning) 14 languages ████████ Català Español ██████ Français ████ ██████ ████
Polski ████████ / srpski ████ ████████████ ███ ███ Edit links Article Talk English
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Generative modeling Regression Clustering Dimensionality reduction Density
estimation Anomaly detection Data cleaning AutoML Association rules Semantic
analysis Structured prediction Feature engineering Feature learning Learning to
rank Grammar induction Ontology learning Multimodal learning Supervised learning
```

12. Verification

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet verify 'Our model achieves 95% accuracy on CIFAR-10 using a s
Running verification...

Claude verified 1 claim(s):
   Our model achieves 95% accuracy on CIFAR-10 using a simple MLP
        Standard Multi-Layer Perceptron (MLP) models typically achieve around
70-80% accuracy on CIFAR-10, with state-of-the-art convolutional neural networks
(CNNs) performing better. A 95% accuracy claim for an MLP is exceptionally high
and requires substantial evidence.
        ^ needs citation
```

13. Auto-debug

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet debug 'python /tmp/buggy.py'
Starting auto-debug for: python /tmp/buggy.py
Auto-debug could not fully resolve the issue.
```

15a. Add routine

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet auto add-routine --name nightly-check --command 'ricet verify
Routine added: nightly-check (daily)
```

15b. List routines

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet auto list-routines
```

```
Scheduled routines:
  nightly-check (daily) enabled - Nightly verification
```

15c. Monitor topic

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet auto monitor --topic 'transformer architectures'
Monitoring 'transformer architectures' via arxiv, semantic-scholar
  Status: active
```

16a. Repro log

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet repro log --run-id exp-001 --command 'python train.py --lr 0.
Run logged: exp-001 -&gt; state/runs/exp-001.json
```

16b. Repro list

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet repro list
Experiment runs:
  exp-001  python train.py --lr 0.001 (2026-02-02)
```

16c. Repro show

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet repro show --run-id exp-001
Run: exp-001
  Command:  python train.py --lr 0.001
  Status:   completed
  Started:  2026-02-02T17:35:51.518982
  Ended:    N/A
  Git hash: b1ffa16dae32bf6bfcc3ae49bd2d8e2312e577a4
  Notes:    Baseline experiment
```

16d. Repro hash

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet repro hash --path /tmp/dataset.csv
SHA-256: 78762967bcf36dbf062525d16fb69aeea2bf0ea0b2a44ea8e90b11216dfc5411
  Path: /tmp/dataset.csv
```

17a. MCP search (database)

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet mcp-search 'database migration'
Found MCP: postgres
  Source: https://github.com/modelcontextprotocol/servers/tree/main/src/postgres
  Install: npx -y @modelcontextprotocol/server-postgres
Install postgres? (yes/no) [yes]:
```

17a. MCP search (browser)

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet mcp-search 'browser automation'
Found MCP: puppeteer
```

```
  Source:
https://github.com/modelcontextprotocol/servers/tree/main/src/puppeteer
  Install: npx -y @modelcontextprotocol/server-puppeteer
Install puppeteer? (yes/no) [yes]:
```

17a. MCP search (arxiv)

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet mcp-search 'paper search arxiv'
Found MCP: arxiv
  Source: https://github.com/arxiv-mcp/arxiv-mcp-server
  Install: pip install arxiv-mcp-server
Install arxiv? (yes/no) [yes]:
```

18. MCP create

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet mcp-create my-custom-mcp --desc 'A custom MCP for my research
Generating MCP server: my-custom-mcp
  Description: A custom MCP for my research data
  Tools: fetch_data, process_data, export_results
MCP scaffold created at: /tmp/ricet-test/demo-project/my-custom-mcp
  Next steps:
    cd /tmp/ricet-test/demo-project/my-custom-mcp
    npm install
    npm run build
```

19. Test gen

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet test-gen --file src/calculator.py
Generating tests for: src/calculator.py
Claude did not return test code for calculator.py
Could not generate tests (Claude may be unavailable).
```

20. Auto-docs

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet docs --force
Scanning project for documentation gaps...
Updated docs:
  API stubs added to docs/API.md: 1
  Module index updated: 1 modules
```

21. Goal fidelity

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet fidelity
Checking goal fidelity...

Fidelity Score: 50/100

Drift areas:
  - Unable to assess (Claude unavailable)
```

22. Daily maintenance

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet maintain
Running daily maintenance pass...
```

```
  test-gen: passed
  docs-update: passed
  fidelity-check: passed
  verify-pass: failed
  claude-md-review: passed
Some maintenance tasks failed. Review output above.
```

23a. Adopt local

[PASS]

```
$ cd /tmp/ricet-test &amp;&amp; ricet adopt /tmp/existing-repo3 --name adopted-project3
```

```
Adopting: /tmp/existing-repo3
Encyclopedia not found at knowledge/ENCYCLOPEDIA.md
Project adopted at /tmp/existing-repo3
Next steps:
  1. cd /tmp/existing-repo3
  2. Edit knowledge/GOAL.md with your research description
  3. ricet start
```

24a. Link repo

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet link /tmp/linked-repo --name shared-utils
```

```
Linked 'shared-utils' at /tmp/linked-repo (read-only)
Indexed 2 files from 'shared-utils'
```

24b. Search linked repos

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet memory search 'attention mechanism'
```

```
claude-flow not available. Using keyword search.
  - [2026-02-02 17:34] (lucafusarbassini1@gmail.com) auto-commit: ricet cite:
added 3 references for 'attention mechanisms in transformers' -- Rationale:
state-modifying CLI operation completed
```

24c. Reindex

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet reindex
```

```
Re-indexing all linked repos...
  shared-utils: 2 files indexed
Done.
```

24d. Unlink

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet unlink shared-utils
```

```
Unlinked 'shared-utils'
```

25. Sync learnings

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet sync-learnings /tmp/ricet-test/other-project
```

```
Syncing learnings from: /tmp/ricet-test/other-project
  Encyclopedia entries transferred: 2
  Meta-rules transferred: 0
```

26a. Two-repo init

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet two-repo init
```

```
Initializing two-repo structure...
  experiments: ok
  clean: ok
Two-repo structure ready.
```

26b. Two-repo status

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet two-repo status
```

```
experiments: branch=master dirty
  clean: branch=master clean
```

26c. Two-repo promote

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet two-repo promote --files 'validated.py' --message 'Promote va
```

```
Promoting 1 file(s) to clean/...
Files promoted and committed in clean/.
```

26d. Two-repo diff

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet two-repo diff
```

```
Differences between experiments/ and clean/:
Only in /tmp/ricet-test/demo-project/experiments: .gitkeep
```

27a. Infra check

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet infra check
```

```
Infrastructure check:
  docker: not found
  git: git version 2.43.0
  node: v20.20.0
  python: Python 3.12.6
  conda: conda 24.7.1
```

27b. Infra CICD

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet infra cicd --template python
```

```
Setting up CI/CD (python template)...
Workflow created: /tmp/ricet-test/demo-project/.github/workflows/ci.yml
```

27c. Infra secrets

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet infra secrets
```

```
Scanning for secrets to rotate...
Found 2 potential secret(s):
  - secrets/.env.example: API_KEY=

#
  - secrets/.env.example: ACCESS_TOKEN=
```

#

28a. Runbook dry-run

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet runbook /tmp/test-runbook.md
Parsing runbook: /tmp/test-runbook.md
Found 3 code block(s):
  1.  Step 1: Check Python
  2.  Step 2: Check pip
  3.  Step 3: List files

Dry-run mode. Use --execute/-x to run code blocks.
  1. SKIPPED Step 1: Check Python
  2. SKIPPED Step 2: Check pip
  3. SKIPPED Step 3: List files
```

28b. Runbook execute

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet runbook /tmp/test-runbook.md --execute
Parsing runbook: /tmp/test-runbook.md
Found 3 code block(s):
  1.  Step 1: Check Python
  2.  Step 2: Check pip
  3.  Step 3: List files
  1. OK Step 1: Check Python
     Python 3.12.6
  2. OK Step 2: Check pip
     pip 24.2 from /home/fusar/mambaforge/lib/python3.12/site-packages/pip
(python 3.12)
  3. OK Step 3: List files
     total 104
drwxr-xr-x 24 fusar uplamanno 4096 Feb  2 17:40 .
drwxr-xr-x  5 fusar uplamanno 4096 Feb  2 17:40 ..
drwxr-xr-x  2 fusar uplamanno 4096 Feb  2 17:33 ```
drwxr-xr-x  5 fusar uplamanno 4096 Fe
```

29a. Worktree list

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet worktree list
Active worktrees:
  refs/heads/master → /tmp/ricet-test/demo-project
```

29b. Worktree add

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet worktree add experiment-branch
Adding worktree for branch: experiment-branch
Worktree created at .worktrees/experiment-branch
```

29c. Worktree remove

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet worktree remove experiment-branch
Worktree for experiment-branch removed.
```

29d. Worktree prune

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet worktree prune
Stale worktrees pruned.
```

30a. Queue submit (1)

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet queue submit --prompt 'Analyze the dataset and report summary
Queued prompt 2f2516bb: Analyze the dataset and report summary statistics
```

30a. Queue submit (2)

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet queue submit --prompt 'Generate a scatter plot of the results
Queued prompt 6e27942d: Generate a scatter plot of the results
```

30b. Queue status

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet queue status
Queue Status
  Queued:    0
  Running:   0
  Completed: 0
  Memory:    0 entries
```

30d. Queue cancel-all

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet queue cancel-all
Cancelled 0 queued prompts.
```

31a. Projects list

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet projects list
Registered projects:
  adopted-project — /tmp/existing-repo
  hello-test — /tmp/ricet-test/hello-test
  my-repo — /tmp/pytest-of-fusar/pytest-141/test_adopt_local_directory0/my-repo
  repo2 — /tmp/pytest-of-fusar/pytest-141/test_adopt_creates_gitattribut0/repo2
*
  demo-project — /tmp/ricet-test/demo-project
  adopted-project2 — /tmp/existing-repo2
  test-proj —
/tmp/pytest-of-fusar/pytest-139/test_adopt_registers_project0/reg-test
  forked-repo —
/tmp/pytest-of-fusar/pytest-141/test_adopt_url_with_fork0/forked-repo
  cloned — /tmp/pytest-of-fusar/pytest-141/test_adopt_url_no_fork0/cloned
  test-skip — /tmp/ricet-test/test-skip
  adopted-project3 — /tmp/existing-repo3
```

31b. Projects register

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet projects register
Project name: Project path [/tmp/ricet-test/demo-project]: Registered project: demo-project
```

32a. Package init

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet package init
Package name [demo-project]: Author name []: pyproject.toml created at /tmp/ricet-test/demo-project/pyproject.toml
```

32b. Package build

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet package build
Building package...
Package built successfully.
  demo_project-0.1.0-py3-none-any.whl
  demo_project-0.1.0.tar.gz
```

33a. Website init

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet website init
Initializing project website...
Website initialized.
```

33b. Website build

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet website build
Building website...
Website built.
```

34. Voice prompting

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet voice --duration 5
Recording for 5s... Speak now.
Whisper not available for transcription
No audio captured or transcription failed.
Install whisper: pip install openai-whisper
Install recorder: sudo apt install alsa-utils (Linux)
```

35a. Mobile status

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet mobile status
Server: stopped  Port: 8777  TLS: disabled
```

35b. Mobile connect-info

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet mobile connect-info
1. Direct HTTPS: https://128.178.188.212:8777
2. SSH tunnel:   ssh -L 8777:localhost:8777 user@128.178.188.212
   then open:    https://localhost:8777
3. WireGuard:    Connect via WG IP, then https://&lt;wg-ip&gt;:8777
```

35c. Mobile pair

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet mobile pair --label 'my-phone'
Token: HUR45iaoWkKjjfq28sbixQTdnFO3s9-hQJRhpaUBNwJfhsf6
URL:
https://128.178.188.212:8777?token=HUR45iaoWkKjjfq28sbixQTdnFO3s9-hQJRhpaUBNwJfh
sf6

QR code unavailable (install qrencode). URL:
https://128.178.188.212:8777?token=HUR45iaoWkKjjfq28sbixQTdnFO3s9-hQJRhpaUBNwJfh
sf6
```

35d. Mobile tokens

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet mobile tokens
d4894de77f8e  2026-02-02T10:40:51.755436+00:00
  59af03b90e95  2026-02-02T10:41:11.474962+00:00
  9b4fe1688724  2026-02-02T12:32:01.263366+00:00
  fa2ae2d1a366  2026-02-02T14:02:50.584938+00:00
  5671f98cfa43  2026-02-02T14:06:45.034139+00:00
  29eaaa481985  2026-02-02T14:28:57.374664+00:00
  87ebd4dbed27  2026-02-02T14:34:07.799340+00:00
  a0ee4765a03a  2026-02-02T14:44:11.921822+00:00
  d73cd29a74fa  2026-02-02T15:00:14.702000+00:00
  05471b96fd8a  2026-02-02T15:12:19.911509+00:00
  c56453714581  2026-02-02T15:12:20.511275+00:00
  b6cb204fea88  2026-02-02T15:28:56.272402+00:00
  ebd3c67eb6f0  2026-02-02T15:56:54.936649+00:00
  e057876caf87  2026-02-02T16:10:00.688992+00:00  my-phone
  8f36a1e2fc5f  2026-02-02T16:10:00.689151+00:00
  521b5baadbc8  2026-02-02T16:22:44.489411+00:00
  39b02ffa7621  2026-02-02T16:26:57.522049+00:00
  6d14cb2e00f1  2026-02-02T16:40:35.737536+00:00  my-phone
  4eaa8d84dcdf  2026-02-02T16:40:35.737722+00:00
```

36. Publish medium

[EXPECTED FAIL]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet publish medium
Post title []: Post body: Publishing to medium...
Failed to publish to Medium: HTTP Error 403: Forbidden
Publish failed: HTTP Error 403: Forbidden
```

36. Publish linkedin

[EXPECTED FAIL]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet publish linkedin
Post body: Publishing to linkedin...
Failed to publish to LinkedIn: HTTP Error 401: Unauthorized
Publish failed: HTTP Error 401: Unauthorized
```

37. Zapier setup

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet zapier setup --key 'test-key-12345'
Setting up Zapier MCP integration...
Zapier MCP configured successfully.
  Zapier zaps are now available as MCP tools.
```

38. Review CLAUDE.md

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet review-claude-md
```

```
Reviewing CLAUDE.md...
CLAUDE.md not found or already under 200 lines. Nothing to do.
```

39. Auto-commit check

[PASS]

```
$ echo RICET_AUTO_COMMIT=$RICET_AUTO_COMMIT &amp;&amp; echo AUTO_PUSH=$AUTO_PUSH
RICET_AUTO_COMMIT=
AUTO_PUSH=
```

40. RICET_NO_CLAUDE agents

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; RICET_NO_CLAUDE=true ricet agents
No agent definitions found

Running Agents via claude-flow (58):
  agent-1769966313935-9qm1k4 (coder) - idle [haiku]
  agent-1769966348846-rjxjv8 (coder) - idle [haiku]
  agent-1769966558928-wu0btk (coder) - idle [haiku]
  agent-1769966611928-25pbmk (coder) - idle [haiku]
  agent-1769966642237-51u2io (coder) - idle [haiku]
  agent-1769966773415-h3j77a (coder) - idle [haiku]
  agent-1769966802761-gsn7er (coder) - idle [haiku]
  agent-1769967777174-x252lp (coder) - idle [haiku]
  agent-1769968020560-x8jbbt (coder) - idle [haiku]
  agent-1769968325219-44ps77 (coder) - idle [haiku]
  agent-1769968483733-5e4dgq (coder) - idle [haiku]
  agent-1769969568752-wu2ph9 (coder) - idle [haiku]
  agent-1769969779001-2a3hvr (coder) - idle [haiku]
  agent-1769970240162-fuzyey (coder) - idle [haiku]
  agent-1769972004647-d52l83 (coder) - idle [haiku]
  agent-1769972010078-nncxi9 (coder) - idle [haiku]
  agent-1769972625039-g470r9 (coder) - idle [haiku]
  agent-1769972982788-kvlw4j (coder) - idle [haiku]
  agent-1769973057220-pgekxt (coder) - idle [haiku]
  agent-1769980935873-3xh0zc (coder) - idle [haiku]
  agent-1769981913025-spliw2 (coder) - idle [haiku]
  agent-1769982501818-eiquw7 (coder) - idle [haiku]
  agent-1769982745221-ctdkm0 (coder) - idle [haiku]
  agent-1769984195323-9fq091 (coder) - idle [haiku]
  agent-1769984253681-ocwst9 (coder) - idle [haiku]
  agent-1769985168913-nl77vo (coder) - idle [haiku]
  agent-1769985248875-cw2u23 (coder) - idle [haiku]
  agent-1769986324628-h8nehb (coder) - idle [haiku]
  agent-1769986378110-toahxw (coder) - idle [haiku]
  agent-1770016817915-18s5a7 (coder) - idle [haiku]
  agent-1770017200301-jmrdcj (coder) - idle [haiku]
  agent-1770017425344-pb1fwr (coder) - idle [haiku]
... (26 more lines)
```

40. RICET_NO_CLAUDE fidelity

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; RICET_NO_CLAUDE=true ricet fidelity
Checking goal fidelity...

Fidelity Score: 50/100

Drift areas:
  - Unable to assess (Claude unavailable)
```

41a. Full test suite

[PASS]

```
$ cd /home/fusar/claude/research-automation &amp;&amp; python -m pytest tests/ -v --tb=short 2&gt;&amp;1 | tail
tests/test_website.py::test_website_project_pages PASSED                [ 98%]
tests/test_website.py::test_website_project_config PASSED               [ 98%]
```

```
tests/test_website.py::test_update_page_success PASSED                  [ 98%]
tests/test_website.py::test_update_page_nonexistent PASSED              [ 98%]
tests/test_website.py::test_add_page PASSED                             [ 98%]
tests/test_website.py::test_build_site PASSED                           [ 99%]
tests/test_website.py::test_deploy_site_github_pages PASSED             [ 99%]
tests/test_website.py::test_deploy_site_unsupported_method PASSED       [ 99%]
tests/test_website.py::test_add_publication PASSED                      [ 99%]
tests/test_website.py::test_add_publication_no_page PASSED              [ 99%]
tests/test_website.py::test_update_cv PASSED                            [ 99%]
tests/test_website.py::test_update_cv_no_page PASSED                    [ 99%]
tests/test_website.py::test_preview_site PASSED                         [100%]

================== 709 passed, 1 skipped in 193.36s (0:03:13) ==================
```

41c. Test with coverage

[PASS]

```
$ cd /home/fusar/claude/research-automation &amp;&amp; python -m pytest tests/ -v --cov=core --cov=cli --cov-rep
core/knowledge.py              170    104    39%   49-50, 72, 83-84, 89-90, 95, 110-116, 163-169, 190-209, 228-258, 269-335, 346
core/lazy_mcp.py                65      1    98%   158
core/markdown_commands.py       81     15    81%   145-160, 174
core/mcps.py                   200    123    38%   163-164, 171-180, 206-264, 291-339, 367-417, 438-473
core/meta_rules.py              39      1    97%   126
core/mobile.py                 422    120    72%   111, 144-145, 241-242, 261-262, 266-276, 424-435, 462, 485-488, 563-592, 595-
core/mobile_pwa.py               4      0   100%
core/model_router.py            89      4    96%   123-125, 160
core/multi_project.py          124     14    89%   39-46, 230, 236-238, 300, 305, 317, 320, 323
core/notifications.py          112    112     0%   3-209
core/onboarding.py             555    210    62%   104-113, 138-139, 162, 184-185, 208-212, 240-241, 258-299, 320-321, 330-334,
core/paper.py                  174    106    39%   36-74, 115-117, 149-150, 162, 179, 195-218, 223, 232-252, 273-277, 289-296, 3
core/prompt_queue.py           266     46    83%   289, 292-293, 311-313, 321-335, 346, 414-419, 458, 481-484, 508-509, 517-520,
core/prompt_suggestions.py     141     11    92%   143, 167, 187-198, 267, 329, 405
core/rag_mcp.py                119     35    71%   61, 110, 398-462
core/reproducibility.py         98      5    95%   65, 70-71, 85, 129
core/resources.py               97     12    88%   59-60, 66-67, 74-75, 103, 116, 121-122, 141, 171
core/security.py                64      9    86%   45-54, 79-80, 172, 180
core/session.py                115     22    81%   48, 66-67, 85, 95, 127-128, 138-139, 164, 178-193
core/social_media.py           128     17    87%   114, 131, 158-159, 190, 317-345
core/style_transfer.py         102      2    98%   138, 150
core/task_spooler.py           147     18    88%   50-51, 99, 103, 109, 175, 189, 200, 217, 227-228, 236-240, 245, 254-255
core/tokens.py                  66      0   100%
core/two_repo.py                79      9    89%   91-93, 101-102, 138, 151, 154-155
core/verification.py           163     58    64%   87, 101, 108, 203, 208, 234, 297-330, 344-361, 370-403, 424-464
core/voice.py                  140     76    46%   52-125, 133-176, 213, 224, 233-245, 266, 301-328
core/website.py                199     21    89%   81, 91, 215, 232, 265, 276-284, 328, 358-364, 380, 411-413, 430, 433, 450, 45
-----------------------------------------------------------
TOTAL                         8076   3465    57%
================== 709 passed, 1 skipped in 195.43s (0:03:15) ==================
```

A1. Code audit

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet audit
Auditing project for half-baked features...
No half-baked features detected.
```

A2. Fresh audit

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet fresh-audit
Running fresh-agent audit (no prior context)...

Quality Score: 3/10

Strengths:
  + Basic type hints present
  + Simple, clear function implementations
  + Docstrings provided for functions

Issues:
   Code Duplication: Identical calculator implementation exists in multiple
locations (_build/src/calculator.py and src/calculator.py)
```

```
   Project Structure: Unclear purpose for duplicate directories (_build/,
clean/, experiments/) with identical 'validated.py' files
   Minimal Implementation: Extremely limited codebase with only basic calculator
functions, suggesting an incomplete or placeholder project
   Testing: No test files or test coverage for calculator functions
   Security: No input validation for add() and multiply() functions, potential
for integer overflow or type-related vulnerabilities
```

A3. Test gen (project-wide)

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet test-gen
Generating tests for project: demo-project
Claude did not return test code for calculator.py
No test files generated. Check that .py files exist in src/ or project root.
```

A4. Memory export

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet memory export
Knowledge exported to knowledge/demo-project_export.json
```

A5. Package publish

[EXPECTED FAIL]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet package publish
PYPI_TOKEN not found. Set it in secrets/.env or as an environment variable.
Get a token at: https://pypi.org/manage/account/token/
```

A6. Discover with cite

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet discover 'large language model efficiency' --cite --max 2
Searching PaperBoat for: large language model efficiency

  1. Efficient Transformers: A Survey of Compression and Acceleration Methods
     Authors: Tianchu Li, Yiran Chen, Xin Chen
     Year: 2025
     Abstract: Comprehensive review of techniques to reduce computational and
memory overhead in transformer-based large language models, including pruning,
quantization, and knowledge distillation approaches.
     URL: https://arxiv.org/abs/2025.01234

  2. LoRA++: Advanced Low-Rank Adaptation for Efficient Model Fine-Tuning
     Authors: Elena Rodriguez, Michael Zhang, Sarah Kim
     Year: 2025
     Abstract: Introduces an improved low-rank adaptation technique that
significantly reduces computational complexity and memory requirements during
large language model fine-tuning.
     URL: https://arxiv.org/abs/2025.05678
  + Added to bib: Li2025
  + Added to bib: Rodriguez2025
```

A7. MCP search sequential

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet mcp-search 'sequential thinking'
Found MCP: sequential-thinking
  Source:
https://github.com/modelcontextprotocol/servers/tree/main/src/sequentialthinking
  Install: npx -y @modelcontextprotocol/server-sequential-thinking
Install sequential-thinking? (yes/no) [yes]:
```

A8. Queue submit + drain

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet queue submit --prompt 'Hello world test' &amp;&amp; ricet que
Queued prompt 8f3b1664: Hello world test
Draining queue (waiting for all prompts)...
```

A9. Config notifications

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet config notifications
Notification method (email, slack, none) [none]: Settings updated.
```

A9. Config compute

[EXPECTED FAIL]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet config compute
Compute type (local-cpu, local-gpu, cloud, cluster) [local-cpu]: GPU name []: Aborted.
```

A10. Resume

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet resume 2&gt;&amp;1 | head -5
Usage: ricet resume [OPTIONS] SESSION_NAME
Try 'ricet resume --help' for help.
╭─ Error ──────────────────────────────────────────────────────────────────────╮
│ Missing argument 'SESSION_NAME'.                                             │
╰──────────────────────────────────────────────────────────────────────────────╯
```

A11. Help: init

[PASS]

```
$ ricet init --help 2&gt;&amp;1 | head -5
Usage: ricet init [OPTIONS] PROJECT_NAME

 Initialize a new research project with full onboarding.
```

A11. Help: config

[PASS]

```
$ ricet config --help 2&gt;&amp;1 | head -5
Usage: ricet config [OPTIONS] [SECTION]

 View or reconfigure project settings.
```

A11. Help: start

[PASS]

```
$ ricet start --help 2&gt;&amp;1 | head -5
Usage: ricet start [OPTIONS]

 Start an interactive research session.
```

A11. Help: overnight

[PASS]

```
$ ricet overnight --help 2&gt;&amp;1 | head -5
Usage: ricet overnight [OPTIONS]

 Run overnight autonomous mode.
```

A11. Help: status

[PASS]

```
$ ricet status --help 2&gt;&amp;1 | head -5
Usage: ricet status [OPTIONS]

 Show current project status.
```

A11. Help: list-sessions

[PASS]

```
$ ricet list-sessions --help 2&gt;&amp;1 | head -5
Usage: ricet list-sessions [OPTIONS]

 List all sessions.
```

A11. Help: agents

[PASS]

```
$ ricet agents --help 2&gt;&amp;1 | head -5
Usage: ricet agents [OPTIONS]

 Show swarm agent status.
```

A11. Help: memory

[PASS]

```
$ ricet memory --help 2&gt;&amp;1 | head -5
Usage: ricet memory [OPTIONS] ACTION [QUERY]

 Manage project knowledge: search, log decisions, export/import, stats.
```

A11. Help: metrics

[PASS]

```
$ ricet metrics --help 2&gt;&amp;1 | head -5
Usage: ricet metrics [OPTIONS]

 Show claude-flow performance metrics.
```

A11. Help: auto

[PASS]

```
$ ricet auto --help 2&gt;&amp;1 | head -5
Usage: ricet auto [OPTIONS] ACTION

 Manage autonomous routines: scheduled tasks and topic monitoring.
```

A11. Help: maintain

[PASS]

```
$ ricet maintain --help 2&gt;&amp;1 | head -5
Usage: ricet maintain [OPTIONS]

 Run daily maintenance pass (tests, docs, fidelity, verification).
```

A11. Help: repro

[PASS]

```
$ ricet repro --help 2&gt;&amp;1 | head -5
Usage: ricet repro [OPTIONS] ACTION

 Reproducibility tracking: log runs, list history, show details, hash datasets.
```

A11. Help: mcp-search

[PASS]

```
$ ricet mcp-search --help 2&gt;&amp;1 | head -5
Usage: ricet mcp-search [OPTIONS] NEED

 Search the MCP catalog for a server matching your need.
```

A11. Help: mcp-create

[PASS]

```
$ ricet mcp-create --help 2&gt;&amp;1 | head -5
Usage: ricet mcp-create [OPTIONS] NAME

 Generate a new MCP server from scratch using Claude.
```

A11. Help: zapier

[PASS]

```
$ ricet zapier --help 2&gt;&amp;1 | head -5
Usage: ricet zapier [OPTIONS] ACTION

 Zapier integration commands.
```

A11. Help: paper

[PASS]

```
$ ricet paper --help 2&gt;&amp;1 | head -5
Usage: ricet paper [OPTIONS] ACTION

 Paper pipeline commands.
```

A11. Help: mobile

[PASS]

```
$ ricet mobile --help 2&gt;&amp;1 | head -5
Usage: ricet mobile [OPTIONS] ACTION

 Manage mobile companion server for secure on-the-go monitoring.
```

A11. Help: website

[PASS]

```
$ ricet website --help 2&gt;&amp;1 | head -5
Usage: ricet website [OPTIONS] ACTION

 Manage project website for sharing results.
```

A11. Help: publish

[PASS]

```
$ ricet publish --help 2&gt;&amp;1 | head -5
Usage: ricet publish [OPTIONS] PLATFORM

 Draft and publish research summaries to social platforms.
```

A11. Help: verify

[PASS]

```
$ ricet verify --help 2&gt;&amp;1 | head -5
Usage: ricet verify [OPTIONS] TEXT

 Run verification and fact-checking on a piece of text.
```

A11. Help: debug

[PASS]

```
$ ricet debug --help 2&gt;&amp;1 | head -5
Usage: ricet debug [OPTIONS] COMMAND

 Run an automatic debug loop on a failing command.
```

A11. Help: projects

[PASS]

```
$ ricet projects --help 2&gt;&amp;1 | head -5
Usage: ricet projects [OPTIONS] ACTION

 Manage multiple research projects.
```

A11. Help: worktree

[PASS]

```
$ ricet worktree --help 2&gt;&amp;1 | head -5
Usage: ricet worktree [OPTIONS] ACTION [BRANCH]

 Manage git worktrees for parallel experiments.
```

A11. Help: queue

[PASS]

```
$ ricet queue --help 2&gt;&amp;1 | head -5
Usage: ricet queue [OPTIONS] ACTION

 Queue prompts for dynamic multi-agent dispatch.
```

A11. Help: adopt

[PASS]

```
$ ricet adopt --help 2&gt;&amp;1 | head -5
Usage: ricet adopt [OPTIONS] SOURCE

 Adopt an existing repository as a Ricet project.
```

A11. Help: link

[PASS]

```
$ ricet link --help 2&gt;&amp;1 | head -5
Usage: ricet link [OPTIONS] REPO_PATH

 Link an external repository for cross-repo RAG (read-only).
```

A11. Help: unlink

[PASS]

```
$ ricet unlink --help 2&gt;&amp;1 | head -5
Usage: ricet unlink [OPTIONS] NAME

 Remove a linked repository from cross-repo RAG.
```

A11. Help: reindex

[PASS]

```
$ ricet reindex --help 2&gt;&amp;1 | head -5
Usage: ricet reindex [OPTIONS]

 Re-index all linked repositories for cross-repo RAG.
```

A11. Help: docs

[PASS]

```
$ ricet docs --help 2&gt;&amp;1 | head -5
Usage: ricet docs [OPTIONS]

 Auto-update project documentation from source code.
```

A11. Help: two-repo

[PASS]

```
$ ricet two-repo --help 2&gt;&amp;1 | head -5
Usage: ricet two-repo [OPTIONS] ACTION

 Manage two-repo structure (experiments/ vs clean/).
```

A11. Help: browse

[PASS]

```
$ ricet browse --help 2&gt;&amp;1 | head -5
Usage: ricet browse [OPTIONS] URL

 Fetch a URL and extract its text content (useful for literature review).
```

A11. Help: infra

[PASS]

```
$ ricet infra --help 2&gt;&amp;1 | head -5
Usage: ricet infra [OPTIONS] ACTION

  Manage infrastructure, Docker, CI/CD, and secrets.
```

A11. Help: runbook

[PASS]

```
$ ricet runbook --help 2&gt;&amp;1 | head -5
Usage: ricet runbook [OPTIONS] FILE

  Parse and optionally execute code blocks from a markdown runbook.
```

A11. Help: cite

[PASS]

```
$ ricet cite --help 2&gt;&amp;1 | head -5
Usage: ricet cite [OPTIONS] QUERY

  Search literature and add citations to references.bib.
```

A11. Help: discover

[PASS]

```
$ ricet discover --help 2&gt;&amp;1 | head -5
Usage: ricet discover [OPTIONS] QUERY

  Search PaperBoat (paperboatch.com) for recent cross-discipline papers.
```

A11. Help: sync-learnings

[PASS]

```
$ ricet sync-learnings --help 2&gt;&amp;1 | head -5
Usage: ricet sync-learnings [OPTIONS] SOURCE_PROJECT

  Transfer encyclopedia entries and meta-rules from another project.
```

A11. Help: fidelity

[PASS]

```
$ ricet fidelity --help 2&gt;&amp;1 | head -5
Usage: ricet fidelity [OPTIONS]

  Check whether current work aligns with GOAL.md.
```

A11. Help: test-gen

[PASS]

```
$ ricet test-gen --help 2&gt;&amp;1 | head -5
Usage: ricet test-gen [OPTIONS]

  Auto-generate pytest tests for project code.
```

A11. Help: package

[PASS]

```
$ ricet package --help 2&gt;&amp;1 | head -5
Usage: ricet package [OPTIONS] ACTION

 Prepare and publish your project as a pip package.
```

A11. Help: audit

[PASS]

```
$ ricet audit --help 2&gt;&amp;1 | head -5
Usage: ricet audit [OPTIONS]

 Audit project code for half-baked features and stubs.
```

A11. Help: fresh-audit

[PASS]

```
$ ricet fresh-audit --help 2&gt;&amp;1 | head -5
Usage: ricet fresh-audit [OPTIONS]

 Run a fresh-eyes audit of the project using Claude with no context.
```

A11. Help: review-claude-md

[PASS]

```
$ ricet review-claude-md --help 2&gt;&amp;1 | head -5
Usage: ricet review-claude-md [OPTIONS]

 Review and simplify the project's CLAUDE.md.
```

A11. Help: voice

[PASS]

```
$ ricet voice --help 2&gt;&amp;1 | head -5
Usage: ricet voice [OPTIONS]

 Record a voice prompt, transcribe, and execute.
```

A12. Lifecycle: status

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet status
TODO:
# TODO

- [ ] Define a one-liner project description in `knowledge/GOAL.md`
- [ ] Specify concrete success criteria replacing the placeholder items
- [ ] Set a timeline constraint
- [ ] Set a compute budget constraint
- [ ] List required tools/libraries under "Must use"
- [ ] List prohibited tools/libraries under "Must NOT"
- [ ] Define the first task to work on
- [ ] Add any hard rules to `knowledge/CONSTRAINTS.md`
- [ ] Upload or link relevant reference papers to `reference/papers/`
- [ ] Uplo

Progress:
# Progress



Claude-Flow:
  Version: claude-flow v3.1.0-alpha.3
```

A12. Lifecycle: memory stats

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet memory stats
Encyclopedia stats:
  Tricks: 2 entries
  Decisions: 22 entries
  What Works: 0 entries
  What Doesn't Work: 0 entries
```

A12. Lifecycle: repro list

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet repro list
Experiment runs:
  exp-001  python train.py --lr 0.001 (2026-02-02)
```

A12. Lifecycle: projects list

[PASS]

```
$ cd /tmp/ricet-test/demo-project &amp;&amp; ricet projects list
Registered projects:
  adopted-project — /tmp/existing-repo
  hello-test — /tmp/ricet-test/hello-test
  my-repo — /tmp/pytest-of-fusar/pytest-143/test_adopt_local_directory0/my-repo
  repo2 — /tmp/pytest-of-fusar/pytest-143/test_adopt_creates_gitattribut0/repo2
*
  demo-project — /tmp/ricet-test/demo-project
  adopted-project2 — /tmp/existing-repo2
  test-proj —
/tmp/pytest-of-fusar/pytest-139/test_adopt_registers_project0/reg-test
  forked-repo —
/tmp/pytest-of-fusar/pytest-143/test_adopt_url_with_fork0/forked-repo
  cloned — /tmp/pytest-of-fusar/pytest-143/test_adopt_url_no_fork0/cloned
  test-skip — /tmp/ricet-test/test-skip
  adopted-project3 — /tmp/existing-repo3
```

Unit Test Suite: 709 passed, 1 skipped (all pass)