



The prompt lab kick-off

Bee

Aleš Kalfas
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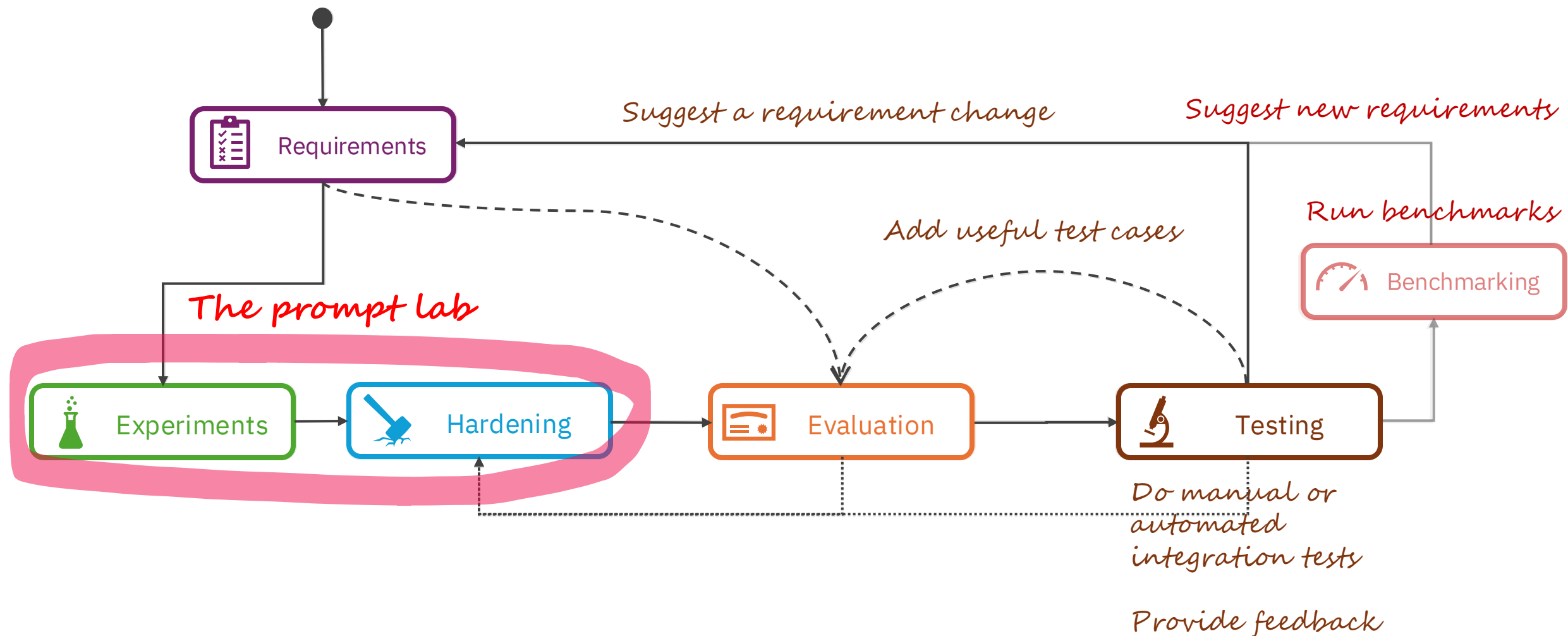
The prompt lab *context*

The optimization process



The prompt lab *context*

The optimization process





The prompt lab *concept*

Test



The prompt lab *concept*

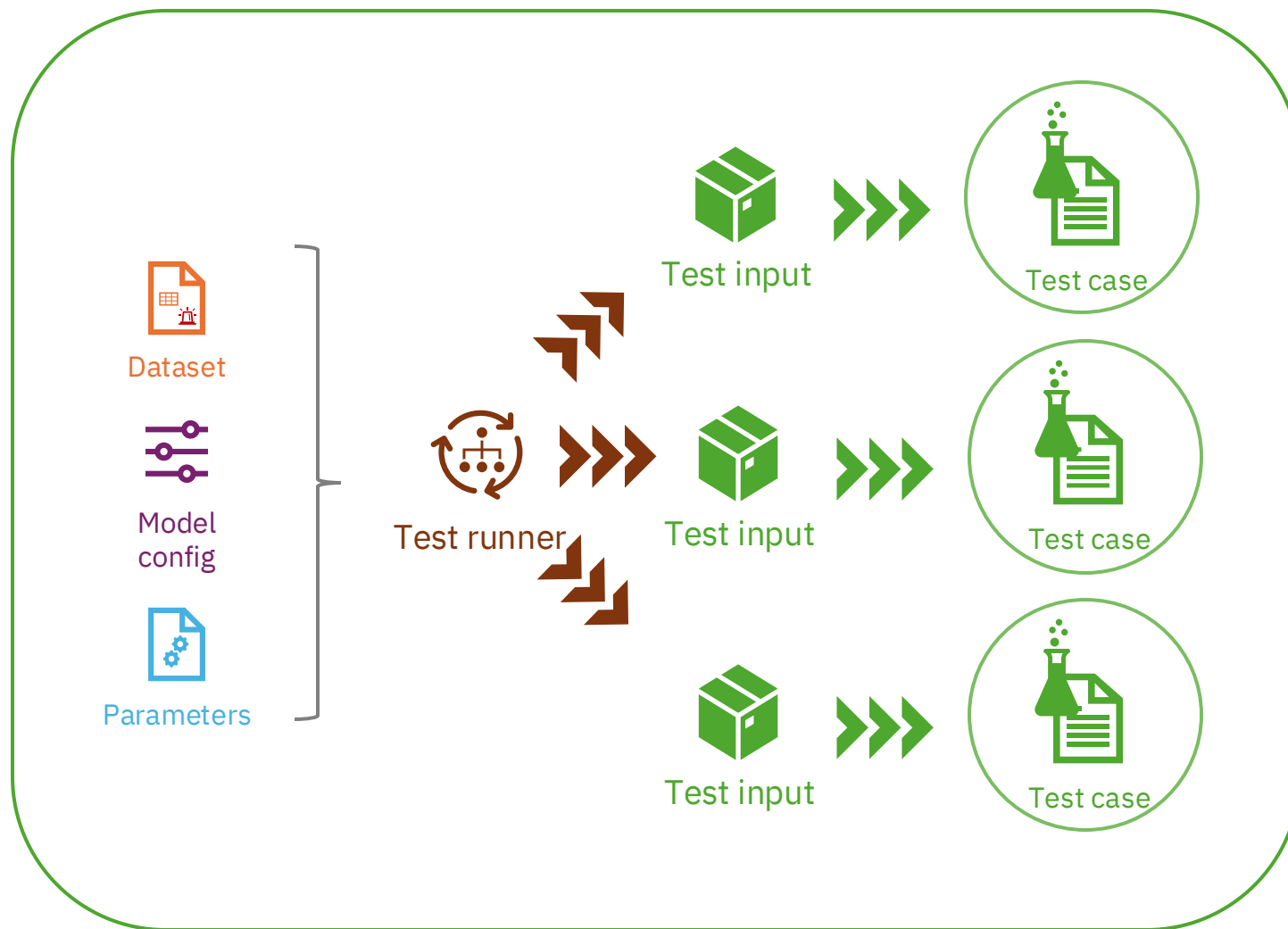
Test

Test

It is a code that takes *>dataset*,
>model config, *>parameters*,
>test case and runs them in a
test runner.



Test





The prompt lab *usage*

Configuration



The prompt lab *usage*

Configuration

Why configure?

The bee project already contains a bunch of tests that amount is multiplied by selected configurations therefore is important to setup them correctly.

The configuration is located inside the bee project **src/projects/bee/base/config.ts**.



There are already around **1,000 tests!**

Running them on a single model with minimalistic configuration takes approximately **4 hours!**

↖
Area for Improvement



The prompt lab *usage*

Configuration

```
28
29 // -----
30 // MODELS
31 // -----
32 export const SUPPORTED_MODELS_CONFIGS = fromObject({
33   "granite-8b": {
34     ...Granite,
35     name: "ibm/granite-8b-instruct-preview-4k",
36     adapter: BAMAdapter,
37   } satisfies ModelConfig<BAMModelConfigTypes>,
38   // "llama-3-1-70b": {
39   //   ...LLama,
40   //   name: "meta-llama/llama-3-1-70b-instruct",
41   //   adapter: IBMVLLMAdapter,
42   // },
43   "llama-3-1-70b-new": { Ales Kalfas, 2 weeks ago • feat: unified test approaches (#8) ...
44     ...LLamaNew,
45     name: "meta-llama/llama-3-1-70b-instruct",
46     adapter: IBMVLLMAdapter,
47   } satisfies ModelConfig<IBMVLLMModelConfigTypes>,
48   // "llama-3-1-8b-new": {
49   //   ...OllamaLLamaNew,
50   //   name: "llama3.1:8b",
51   //   adapter: OllamaAdapter,
52   // } satisfies ModelConfig<OllamaModelConfigTypes>,
53 });
54
```

Models

- Currently supported adapters include BAM, IBM vLLM, and Ollama.
- These adapters connect directly to the bee-agent-framework adapters, though this is a subset.
- It's possible to extend this set by adding other framework adapters or even entirely different ones.



The prompt lab *usage*

Configuration

Toolkits

You can configure a custom combination of tools as needed.

```
54
55 // -----
56 // TOOLS
57 // -----
58 export const BASE_TOOLKIT = [duckDuckGo, wikipedia, pythonTool];
59 export const EXTENDED_TOOLKIT = [...BASE_TOOLKIT, openMeteo, arXiv];
60 export const STANDARD_TOOLS_COMBINATIONS = [
61   [],
62   BASE_TOOLKIT,
63   // EXTENDED_TOOLKIT,
64 ];
65
```

```
65
66 // -----
67 // SWITCHES
68 // -----
69 export const SWITCHES = _combine({
70   // 🧑 Use guided parameter in LLM call if it's present in the model config parameters.
71   useGuided: [true, false],
72   // 🕒 Set created at date time to LLM messages metadata, but it's up prompt templates if they use it.
73   useTime: [false],
74   // 📦 Enable artifacts functionality.
75   useArtifacts: [true],
76 });
77
```

Switches

Switches are special controls to enable or disable various features within the tests.

useGuided Enables or disables constraint decoding on LLM calls.

useTime Enables or disables the inclusion of timestamps in user prompts.

useArtifacts Enables or disables the inclusion of artifacts in prompt parts.



The prompt lab *usage*

Configuration

```
78 // -----  
79 // RUN CONTROL  
80 // -----  
81 export const TESTS_SUITE_RUN_CONTROL: RunControlSuiteConfig = {  
82   paths: [/\artifact-/],  
83   // paths: [],  
84 };  
85  
86 export const TESTS_RUN_CONTROL: RunControlTestConfig = {  
87   level: RunControlTestLevel.CORE,  
88 };  
89
```

Filters

Filters limit the final test set across two dimensions:

- **Test suites** Filters tests that match specified regex patterns.
- **Test run** Filters specific tests within suites based on their level. Typically, test suites include CORE level and NORMAL level tests. CORE level tests should always be run when testing new prompt changes, while NORMAL tests should be run when modifying specific features.



The prompt lab *usage*

Run



The prompt lab *usage*

Run

Run

Run the current configuration named **my_setup** will produce output to the **./outputs/my_setup/test-output.html**

```
$ pnpm use test:report my_setup
```

Command-line output

The minimalist output version provides a approximate visual indication of test progress.

```
> bee-prompt-lab-poc@1.0.0 test:report /Users/kalfas/Documents/Projects/bee/git/bee-prompt-lab-poc-v2
> tsx src/test-framework/results/json-output/reporter/run-json-report.ts "my_setup"
```

```
RUN v2.1.2 /Users/kalfas/Documents/Projects/bee/git/bee-prompt-lab-poc-v2
```

```
.....
(node:47970) [DEP0040] DeprecationWarning: The `punycode` module is deprecated. Please use a userland alternative instead.
.....X.....X.....
```



The prompt lab *usage*

Run

Progress

```
> bee-prompt-lab-poc@1.0.0 test:report /Users/kalfas/Documents/Projects/bee/git/bee-prompt-lab-poc-v2
> tsx src/test-framework/results/json-output/reporter/run-json-report.ts "my_setup"

RUN v2.1.2 /Users/kalfas/Documents/Projects/bee/git/bee-prompt-lab-poc-v2
.....
(node:47970) [DEP0040] DeprecationWarning: The `punycode` module is deprecated. Please use a userland alternative instead.
.....x.....x.....

JSON report written to /Users/kalfas/Documents/Projects/bee/git/bee-prompt-lab-poc-v2/outputs/my_setup/test-output.json

-----

FAIL src/projects/bee/base/models/llama-3-1-70b-instruct/parse.test.ts > Parser > Valid inputs and schemas for thought and function
Error: Model output couldn't be parsed: Thought: My thinking...
Function: {"name":"DuckDuckGo","parameters":{"query":"Foobar"}}
> Module.parse src/projects/bee/base/models/llama-3-1-70b-instruct/parse.ts:67:9
   65|     };
   66|   }
   67|   throw new Error(`Model output couldn't be parsed: ${input}`);
      |         ^
   68| };
   69|
> src/projects/bee/base/models/llama-3-1-70b-instruct/parse.test.ts:81:22
> src/projects/bee/base/models/llama-3-1-70b-instruct/parse.test.ts:80:13

FAIL src/projects/bee/base/models/llama-3-1-70b-instruct-new/parse.test.ts > Parser > Valid inputs and schemas for thought and function
Error: Model output couldn't be parsed: Thought: My thinking...
Function: {"name":"DuckDuckGo","parameters":{"query":"Foobar"}}
> Module.parse src/projects/bee/base/models/llama-3-1-70b-instruct-new/parse.ts:67:9
   65|     };
   66|   }
   67|   throw new Error(`Model output couldn't be parsed: ${input}`);
      |         ^
   68| };
   69|
> src/projects/bee/base/models/llama-3-1-70b-instruct-new/parse.test.ts:81:22
> src/projects/bee/base/models/llama-3-1-70b-instruct-new/parse.test.ts:80:13

Test Files  2 failed | 5 passed | 39 skipped (46)
Tests      2 failed | 34 passed | 2320 skipped (2356)
Start at   14:05:29
Duration   1.20s (transform 283ms, setup 13ms, collect 889ms, tests 12ms, environment 1ms, prepare 52ms)

Error running tests: Command failed: vitest --run --silent --reporter=dot --reporter=json --outputFile=outputs/my_setup/test-output.json
New temp directory created.
Test report saved to: /Users/kalfas/Documents/Projects/bee/git/bee-prompt-lab-poc-v2/outputs/my_setup/test-output.html
```

Errors

Report



The prompt lab *usage*

Report



The prompt lab *usage*

Report

One test suite and simple setting

Test suite	Test	Parameters				Models		
		Switches			Tools	llama-3-1-70b-new		
		useGuided	useTime	useArtifacts	ReadFile	default		
						test-output.json		
						Error	Duration	Passed
Novels Extraction (16 items)								
Novels Extraction	[Multi] A_Tale_of_Unlikely_Friends.txt Authors Extract content...						00:01.4	
Novels Extraction	[Multi] A_Tale_of_Unlikely_Friends.txt Characters Extract cont...					ASSERT	00:02.9	
Novels Extraction	[Multi] A_Tale_of_Unlikely_Friends.txt Locations Extract conte...					PARSER	00:13.2	
Novels Extraction	[Multi] A_Tale_of_Unlikely_Friends.txt Story Extract content d...					PARSER	00:02.4	
Novels Extraction	[Multi] Bond_of_Fate.txt Authors Extract content data ReadFil...					PARSER	00:01.8	
Novels Extraction	[Multi] Bond_of_Fate.txt Characters Extract content data Read...						00:06.3	
Novels Extraction	[Multi] Bond_of_Fate.txt Locations Extract content data ReadF...					PARSER	00:02.4	
Novels Extraction	[Multi] Bond_of_Fate.txt Story Extract content data ReadFile ...					PARSER	00:02.2	
Novels Extraction	[Single] A_Tale_of_Unlikely_Friends.txt Authors Extract conten...						00:01.5	
Novels Extraction	[Single] A_Tale_of_Unlikely_Friends.txt Characters Extract con...					ASSERT	00:04.8	
Novels Extraction	[Single] A_Tale_of_Unlikely_Friends.txt Locations Extract cont...						00:02.3	
Novels Extraction	[Single] A_Tale_of_Unlikely_Friends.txt Story Extract content d...						00:01.9	
Novels Extraction	[Single] Bond_of_Fate.txt Authors Extract content data ReadFi...						00:03.2	
Novels Extraction	[Single] Bond_of_Fate.txt Characters Extract content data Read...						00:06.2	
Novels Extraction	[Single] Bond_of_Fate.txt Locations Extract content data Read...						00:03.2	
Novels Extraction	[Single] Bond_of_Fate.txt Story Extract content data ReadFile ...					PARSER	00:03.2	
						8	00:58.9	50 %



The prompt lab *usage*

Report

One test suite and simple setting

Switches

Tools

Models/Files
/profiles

Parameters

Test suites

Tests

Test suite		Parameters			Models		
Test		Switches			llama-3-1-70b-new		
		useGuided	useTime	useArtifacts	ReadFile	default	
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	test-output.json	
						Error	Duration
							Passed
							<input checked="" type="checkbox"/>
Novels Extraction (16 items)							
Novels Extraction	[Multi] A_Tale_of_Unlikely_Friends.txt Authors Extract content...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		00:01.4
Novels Extraction	[Multi] A_Tale_of_Unlikely_Friends.txt Characters Extract cont...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ASSERT	00:02.9
Novels Extraction	[Multi] A_Tale_of_Unlikely_Friends.txt Locations Extract conte...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PARSER	00:13.2
Novels Extraction	[Multi] A_Tale_of_Unlikely_Friends.txt Story Extract content d...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PARSER	00:02.4
Novels Extraction	[Multi] Bond_of_Fate.txt Authors Extract content data ReadFil...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PARSER	00:01.8
Novels Extraction	[Multi] Bond_of_Fate.txt Characters Extract content data Read...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		00:06.3
Novels Extraction	[Multi] Bond_of_Fate.txt Locations Extract content data ReadF...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PARSER	00:02.4
Novels Extraction	[Multi] Bond_of_Fate.txt Story Extract content data ReadFile ...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PARSER	00:02.2
Novels Extraction	[Single] A_Tale_of_Unlikely_Friends.txt Authors Extract conten...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		00:01.5
Novels Extraction	[Single] A_Tale_of_Unlikely_Friends.txt Characters Extract con...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ASSERT	00:04.8
Novels Extraction	[Single] A_Tale_of_Unlikely_Friends.txt Locations Extract cont...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		00:02.3
Novels Extraction	[Single] A_Tale_of_Unlikely_Friends.txt Story Extract content d...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		00:01.9
Novels Extraction	[Single] Bond_of_Fate.txt Authors Extract content data ReadFi...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		00:03.2
Novels Extraction	[Single] Bond_of_Fate.txt Characters Extract content data Read...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		00:06.2
Novels Extraction	[Single] Bond_of_Fate.txt Locations Extract content data Read...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		00:03.2
Novels Extraction	[Single] Bond_of_Fate.txt Story Extract content data ReadFile ...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PARSER	00:03.2
						8	00:58.9
							50 %



The prompt lab *usage*

Report

Many test suites and complex config

Test suite	Test	Parameters										Models		
		Switches		Tools								llama-3-1-70b-new		
		use... -	use... -	get... -	Du... -	Wi... -	Pyt... -	Op... -	Re... -	ZblorgColorLookup -	UserCoordinates -	default		
												test-output-basic.json		
												Error	Du...	Passed
														-
▶ 10k Filings Extraction (10 items)												5	02:51.6	50 %
▶ Adhere User Instructions (1 item)												1	00:01.8	0 %
▶ Chitchat (128 items)												10	03:51.7	92 %
▶ Create Outline Inline (40 items)												0	08:03.3	100 %
▶ Custom Tools (12 items)												12	00:13.8	0 %
▶ Duckduckgo (140 items)												140	04:46.3	0 %
▶ Duckduckgo Vs Wikipedia (144 items)												144	11:59.6	0 %
▶ General Knowledge (8 items)												3	00:17.5	63 %
▶ Novels Extraction (8 items)												2	00:24.4	75 %
▶ Openmeteo (104 items)												104	03:11.6	0 %



The prompt lab *usage*

Report

Many test suites and complex config

													140	04:46.3	0 %
▼ Duckduckgo Vs Wikipedia (144 items)															
Duckduckgo Vs Wikipedia	antoinette	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ASSERT	00:03.3	✗
Duckduckgo Vs Wikipedia	antoinette DuckDuckGo Wikipedia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.4	✗
Duckduckgo Vs Wikipedia	antoinette DuckDuckGo Wikipedia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.3	✗
Duckduckgo Vs Wikipedia	antoinette DuckDuckGo Wikipedia P...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.4	✗
Duckduckgo Vs Wikipedia	antoinette DuckDuckGo Wikipedia P...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.3	✗
Duckduckgo Vs Wikipedia	antoinette DuckDuckGo Wikipedia P...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.3	✗
Duckduckgo Vs Wikipedia	antoinette DuckDuckGo Wikipedia P...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.1	✗
Duckduckgo Vs Wikipedia	antoinette	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ASSERT	00:04.5	✗
Duckduckgo Vs Wikipedia	antoinette mother	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ASSERT	00:01.7	✗
Duckduckgo Vs Wikipedia	antoinette mother DuckDuckGo Wiki...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.2	✗
Duckduckgo Vs Wikipedia	antoinette mother DuckDuckGo Wiki...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.3	✗
Duckduckgo Vs Wikipedia	antoinette mother DuckDuckGo Wiki...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.8	✗
Duckduckgo Vs Wikipedia	antoinette mother DuckDuckGo Wiki...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.7	✗
Duckduckgo Vs Wikipedia	antoinette mother DuckDuckGo Wiki...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.8	✗
Duckduckgo Vs Wikipedia	antoinette mother DuckDuckGo Wiki...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.8	✗
Duckduckgo Vs Wikipedia	antoinette mother	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ASSERT	00:02.2	✗
Duckduckgo Vs Wikipedia	facebook founder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ASSERT	00:01.7	✗
Duckduckgo Vs Wikipedia	facebook founder DuckDuckGo Wiki...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.2	✗
Duckduckgo Vs Wikipedia	facebook founder DuckDuckGo Wiki...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.5	✗
Duckduckgo Vs Wikipedia	facebook founder DuckDuckGo Wiki...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.0	✗
Duckduckgo Vs Wikipedia	facebook founder DuckDuckGo Wiki...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.2	✗
Duckduckgo Vs Wikipedia	facebook founder DuckDuckGo Wiki...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARSER	00:01.2	✓



The prompt lab *usage*

Report

Multiple runs

Files

		Models																	
		llama-3-1-70b-new																	
Rea...	default																		
		test-output-00_serialize_run.json			test-output-01_file_parallelism.json			test-output-02_threads.json			test-output-03_nevim.json			test-output-04_grpc_concurrent.json			test-output-05_no_isolate.json		
		Error	Dur...	Passed	Error	Dur...	Passed	Error	Dur...	Passed	Error	Dur...	Passed	Error	Dur...	Passed	Error	Dur...	Passed



The prompt lab *usage*

Report

Multiple models

Models

	Parameters								Models					
	Switches			Tools					granite-8b			llama-3-1-70b-new		
	useGui...	useTime	useArti...	DuckD...	Wikepe...	Python	OpenM...	ArXiv	default			default		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	test-output.json			test-output.json		
	Error	Duration	Passed						Error	Duration	Passed	Error	Duration	Passed
DuckDuckGo Wikipedia Python ...	ASSERT	00:03.4	✗	PARSER	00:01.1	✗								
DuckDuckGo Wikipedia Python ...		00:05.8	✓		00:10.1	✓								
DuckDuckGo Wikipedia Python O...	ASSERT	00:05.8	✗	PARSER	00:01.2	✗								
DuckDuckGo Wikipedia Python O...		00:05.6	✓	ASSERT	00:11.5	✗								
python 🧑🏫🕒	ASSERT	00:05.6	✗	PARSER	00:01.4	✗								
python 🧑🏫🕒🍷		00:05.8	✓		00:11.6	✓								
🕒	ASSERT	00:06.4	✗	ASSERT	00:09.8	✗								
🕒🍷		00:05.5	✓		00:12.0	✓								
:DuckGo Wikipedia Python 🧑🏫🕒	ASSERT	00:04.9	✗	PARSER	00:01.4	✗								
:DuckGo Wikipedia Python 🧑🏫...	ASSERT	00:06.2	✗		00:07.3	✓								
:DuckGo Wikipedia Python Open...	ASSERT	00:02.7	✗	PARSER	00:01.6	✗								
:DuckGo Wikipedia Python Open...	ASSERT	00:04.7	✗		00:09.8	✓								
on 🧑🏫🕒	ASSERT	00:04.4	✗	PARSER	00:01.4	✗								
on 🧑🏫🕒🍷	ASSERT	00:05.8	✗	ASSERT	00:09.5	✗								
🕒	ASSERT	00:06.3	✗	ASSERT	00:02.7	✗								
🍷		00:03.7	✓		00:13.6	✓								
ckDuckGo Wikipedia Python 🧑🏫🕒	ASSERT	00:04.5	✗	ASSERT	00:05.2	✗								
DuckGo Wikipedia Python 🧑🏫...	ASSERT	00:04.5	✗	ASSERT	00:04.8	✗								



The prompt lab *tests*

Creation



The prompt lab *usage*

Creation

```
11
12 export default dataset(
13   conversation(
14     turn(
15       userPrompt("Hello"),
16       callLLM(
17         "User say hello",
18         RunControlTestLevel.CORE,
19         assert({ parsed: { final_answer: { exists: true } } })
20       )
21     )
22   )
23 );
24
```



The prompt lab *usage*

Creation

```
11
12 export default dataset(
13   conversation(
14     turn(
15       userPrompt("Hello"),
16       callLLM(
17         "User say hello",
18         RunControlTestLevel.CORE,
19         assert({ parsed: { final_answer: { exists: true } } })
20       )
21     )
22   )
23 );
24
```

▼ Example (2 items)	
Example	User say hello getUsername 🏃 ⌚



The prompt lab *usage*

Creation


```
12 export default dataset(  
13   conversation(  
14     turn(  
15       userPrompt("Hello"),  
16       callLLM(  
17         "User say hello",  
18         RunControlTestLevel.CORE,  
19         assert({ parsed: { final_answer: { exists: true } } })  
20       ),  
21       assistantFinalAnswer({  
22         thought: "User is greeting me I have greet him too.",  
23         finalAnswer: "Hello, how can I help you?",  
24       })  
25     ),  
26     turn(  
27       userPrompt("Do you know my name?"),  
28       callLLM(  
29         "User asks to his name",  
30         RunControlTestLevel.CORE,  
31         assert({  
32           parsed: {  
33             tool_name: { exactMatch: "getUserName" },  
34           },  
35         })  
36       )  
37     )  
38   )  
39 );  
40
```

▼ Example (2 items)	
Example	User say hello getUserName 🚶 ⌚
Example	User asks to his name getUserName 🚶 ⌚



The prompt lab *usage*

Creation

```
bee-prompt-lab-poc-v2 > src > projects > bee > tests > example > ts example.test.ts >  <function>
3  import { testRunner } from "@/projects/bee/base/test-runner.js";
4  import { getTestFile } from "@test-framework/core/index.js";
5  import { overrideFns } from "@test-framework/core/parameters.js";
6  import { describe } from "vitest";
7
8  import dataset from "../dataset.js";
9  import { zodToJsonSchema } from "zod-to-json-schema";
10 import { z } from "zod";
11
12 const testFile = getTestFile(import.meta);
13 describe.runIf(runControlSuite({ testFile }))(testFile.readableFileName, () =>
14   testRunner([
15     testFile,
16     dataset,
17     config: {
18       tools: overrideFns.addToEach([
19         {
20           name: "getUserName",
21           description: "Use to get user name.",
22           schema: JSON.stringify(zodToJsonSchema(z.object({}))),
23         },
24       ]),
25     },
26   ])
27 );
28
```



The prompt lab *usage*

Creation / Configuration

```
26 | wikipedia,
27 | } from "./tools.js";
28 |
29 | // -----
30 | // MODELS
31 | // -----
32 | export const SUPPORTED_MODELS_CONFIGS = fromObject({
33 |   "granite-8b": {
34 |     ...Granite,
35 |     name: "ibm/granite-8b-instruct-preview-4k",
36 |     adapter: BAMAdapter,
37 |   } satisfies ModelConfig<BAMModelConfigTypes>,
38 |   // "llama-3-1-70b": {
39 |   //   ...LLama,
40 |   //   name: "meta-llama/llama-3-1-70b-instruct",
41 |   //   adapter: IBMVLLMAdapter,
42 |   // },
43 |   "llama-3-1-70b-new": {
44 |     ...LLamaNew,
45 |     name: "meta-llama/llama-3-1-70b-instruct",
46 |     adapter: IBMVLLMAdapter,
47 |   } satisfies ModelConfig<IBMVLLMModelConfigTypes>,
48 |   // "llama-3-1-8b-new": {
49 |   //   ...OllamaLLamaNew,
50 |   //   name: "llama3.1:8b",
51 |   //   adapter: OllamaAdapter,
52 |   // } satisfies ModelConfig<OllamaModelConfigTypes>,
53 | });
54 |
55 | // -----
56 | // TOOLS
57 | // -----
58 | export const BASE_TOOLKIT = [duckDuckGo, wikipedia, pythonTool];
59 | export const EXTENDED_TOOLKIT = [...BASE_TOOLKIT, openMeteo, arXiv];
60 | export const STANDARD_TOOLS_COMBINATIONS = [
61 |   [],
62 |   BASE_TOOLKIT,
63 |   // EXTENDED_TOOLKIT,
64 | ];
65 |
66 | // -----
67 | // SWITCHES
68 | // -----
69 | export const SWITCHES = _combine({
70 |   // Use guided parameter in LLM call if it's present in the model config parameters.
71 |   useGuided: [true],
72 |   // Set created at date time to LLM messages metadata, but it's up prompt templates if they use it.
73 |   // You, now * Uncommitted changes
74 |   useTime: [true],
75 |   // Enable artifacts functionality.
76 |   useArtifacts: [false],
77 | });
78 |
79 | // -----
80 | // RUN CONTROL
81 | // -----
82 | export const TESTS_SUITE_RUN_CONTROL: RunControlSuiteConfig = {
83 |   paths: [/\/example/],
84 |   // paths: [],
85 | };
86 |
87 | export const TESTS_RUN_CONTROL: RunControlTestConfig = {
88 |   level: RunControlTestLevel.CORE,
89 | };
90 |
```



The prompt lab *usage*

Creation / Run

```
$ pnpm use test:report example
```

```
Test report saved to: /Users/kalfas/Documents/Projects/bee/git/bee-prompt-lab-poc-v2/outputs/my_setup/test-output.html
• → bee-prompt-lab-poc-v2 git:(main) x pnpm test:report example

> bee-prompt-lab-poc@1.0.0 test:report /Users/kalfas/Documents/Projects/bee/git/bee-prompt-lab-poc-v2
> tsx src/test-framework/results/json-output/reporter/run-json-report.ts "example"

RUN v2.1.2 /Users/kalfas/Documents/Projects/bee/git/bee-prompt-lab-poc-v2

(node:63884) [DEP0040] DeprecationWarning: The `punycode` module is deprecated. Please use a userland alternative instead.
.....x.....x.....

JSON report written to /Users/kalfas/Documents/Projects/bee/git/bee-prompt-lab-poc-v2/outputs/example/test-output.json

-----

FAIL src/projects/bee/base/models/llama-3-1-70b-instruct-new/parse.test.ts > Parser > Valid inputs and schemas for thought and function
Error: Model output couldn't be parsed: Thought: My thinking...
Function: {"name":"DuckDuckGo","parameters":{"query":"Foobar"}}
> Module.parse src/projects/bee/base/models/llama-3-1-70b-instruct-new/parse.ts:67:9
   65|     });
   66|   }
   67|   throw new Error('Model output couldn't be parsed: ${input}');
      |         ^
   68| };
   69|
> src/projects/bee/base/models/llama-3-1-70b-instruct-new/parse.test.ts:81:22
> src/projects/bee/base/models/llama-3-1-70b-instruct-new/parse.test.ts:80:13

FAIL src/projects/bee/base/models/llama-3-1-70b-instruct/parse.test.ts > Parser > Valid inputs and schemas for thought and function
Error: Model output couldn't be parsed: Thought: My thinking...
Function: {"name":"DuckDuckGo","parameters":{"query":"Foobar"}}
> Module.parse src/projects/bee/base/models/llama-3-1-70b-instruct/parse.ts:67:9
   65|     });
   66|   }
   67|   throw new Error('Model output couldn't be parsed: ${input}');
      |         ^
   68| };
   69|
> src/projects/bee/base/models/llama-3-1-70b-instruct/parse.test.ts:81:22
> src/projects/bee/base/models/llama-3-1-70b-instruct/parse.test.ts:80:13

Test Files  2 failed | 6 passed | 39 skipped (47)
Tests      2 failed | 42 passed | 1996 skipped (2040)
Start at   15:11:58
Duration   12.86s (transform 252ms, setup 11ms, collect 619ms, tests 11.96s, environment 1ms, prepare 45ms)

Error running tests: Command failed: vitest --run --silent --reporter=dot --reporter=json --outputFile=outputs/example/test-output.json
New temp directory created.
Test report saved to: /Users/kalfas/Documents/Projects/bee/git/bee-prompt-lab-poc-v2/outputs/example/test-output.html
```



Test suite	Test	Parameters							Models						
			Switches			Tools				granite-8b			llama-3-1-70b-new		
			useGui...	useTime	useArt...	DuckD...	Wikiped...	Python	getUse...	default			default		
										test-output.json			test-output.json		
										Error	Duration	Passed	Error	Duration	Passed
▼ Example (4 items)															
Example	User say hello getUserName														
Example	User say hello DuckDuckGo Wikipedia Python getUserName														
Example	User asks to his name getUserName														
Example	User asks to his name DuckDuckGo Wikipedia Python getUserN...														
									0	00:04.5	100 %	0	00:07.1	100 %	

The End