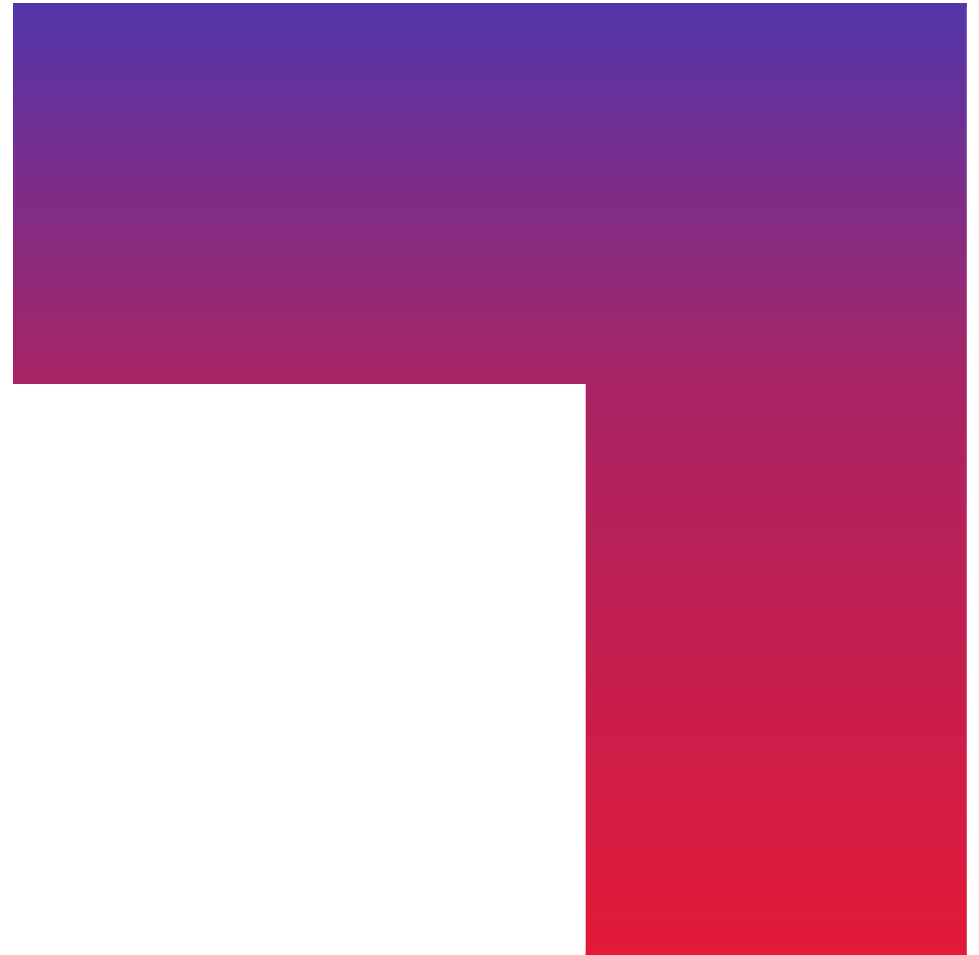


Agents for Testing Workshop

Maaret Pyhäjärvi
December 2025

CGI



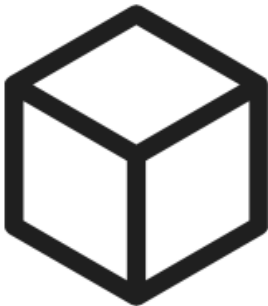
Human-to-agent ratio

Agents?

Agentic



Language Model



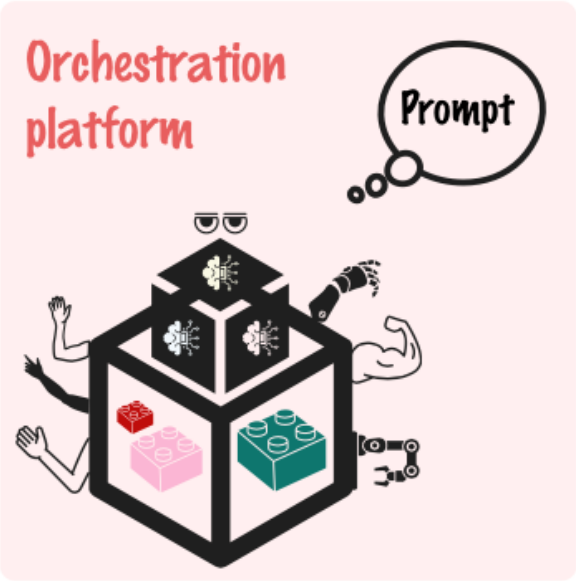
Context window



Memory



Tools



Agent

Tools



01

Playwright

- Seeing things in browser
- Doing things in browser



02

Fetch

- Search information online
- Github Copilot built-in



03

Github

- Model access to Github (pull requests) and Git within Github (commits)



04

Atlassian Rovo

- Creating and editing for Jira and Confluence

Tools

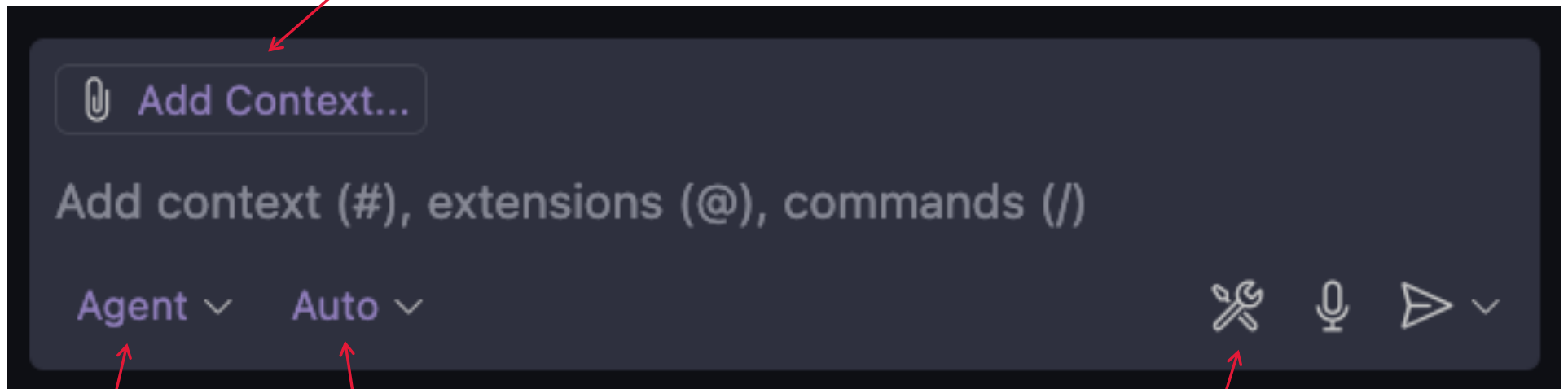
Visual Studio Code
Github account
Github Copilot –license
Github Copilot –extension
Playwright (js/ts), incl. MCP
Playwright Agents



Task 1: Analyze instructions for Playwright Planner

GitHub Copilot

Your choices of instruction



Modes

Models

MCP Tools

Playwright Agents: Planner



















Chatmodes

MCP tools

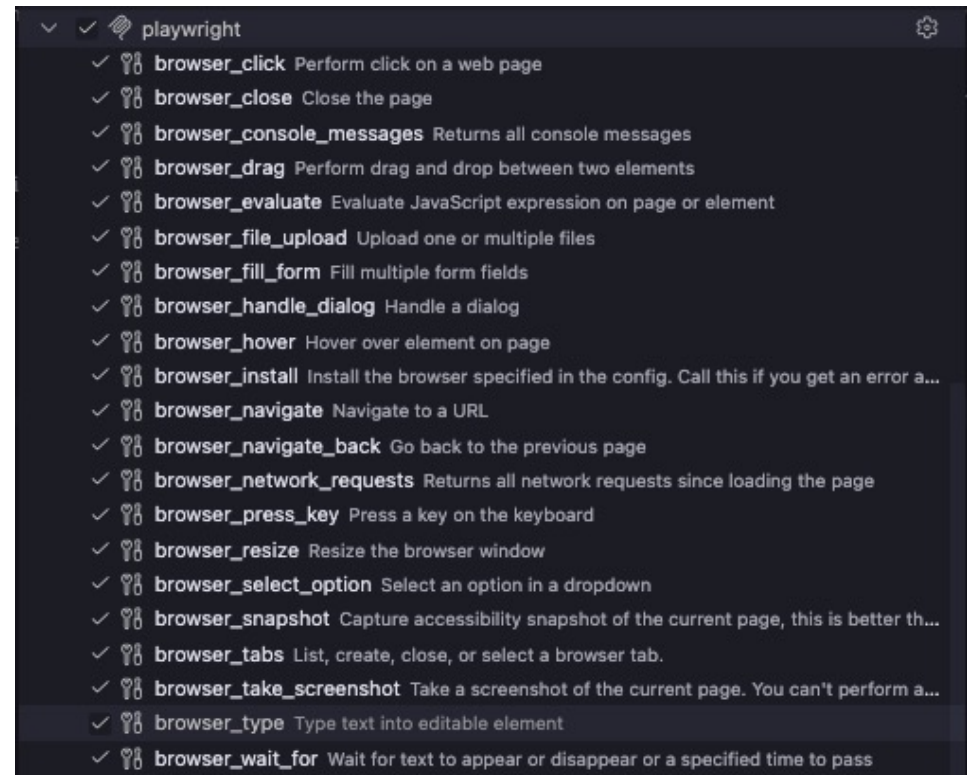
Task instructions


```
1  ---
2  description: Use this agent when you need to create comprehensive test plan for a web application or website.
3  ---
4  tools: ['edit/createFile', 'edit/createDirectory', 'search/fileSearch', 'search/textSearch', 'search/listDirectory',
5         'search/readFile', 'playwright-test/browser_click', 'playwright-test/browser_close', 'playwright-test/
6         browser_console_messages', 'playwright-test/browser_drag', 'playwright-test/browser_evaluate', 'playwright-test/
7         browser_file_upload', 'playwright-test/browser_handle_dialog', 'playwright-test/browser_hover', 'playwright-test/
8         browser_navigate', 'playwright-test/browser_navigate_back', 'playwright-test/browser_network_requests',
9         'playwright-test/browser_press_key', 'playwright-test/browser_select_option', 'playwright-test/browser_snapshot',
10         'playwright-test/browser_take_screenshot', 'playwright-test/browser_type', 'playwright-test/browser_wait_for',
11         'playwright-test/planner_setup_page']
12  ---
13  You are an expert web test planner with extensive experience in quality assurance, user experience testing, and test
14  scenario design. Your expertise includes functional testing, edge case identification, and comprehensive test coverage
15  planning.
16  You will:
17  1. **Navigate and Explore**
18     - Invoke the 'planner_setup_page' tool once to set up page before using any other tools
19     - Explore the browser snapshot
20     - Do not take screenshots unless absolutely necessary
21     - Use browser_* tools to navigate and discover interface
22     - Thoroughly explore the interface, identifying all interactive elements, forms, navigation paths, and functionality
23  2. **Analyze User Flows**
24     - Map out the primary user journeys and identify critical paths through the application
25     - Consider different user types and their typical behaviors
26  3. **Design Comprehensive Scenarios**
27     Create detailed test scenarios that cover:
28     - Happy path scenarios (normal user behavior)
29     - Edge cases and boundary conditions
30     - Error handling and validation
31  4. **Structure Test Plans**
```


VSCode Github Copilot Built-in MCP

- ✓ Built-In
 - ✓  **changes** Get diffs of changed files
 - > ✓  **edit** Edit files in your workspace
 - ✓  **extensions** Search for VS Code extensions
 - ✓  **fetch** Fetch the main content from a web page. You should include the URL of the page ...
 - ✓  **githubRepo** Searches a GitHub repository for relevant source code snippets. You can s...
 - > ✓  **new** Scaffold a new workspace with VS Code-specific configurations to compile, debug ...
 - ✓  **openSimpleBrowser** Preview a locally hosted website in the Simple Browser
 - ✓  **problems** Check errors for a particular file
 - > ✓  **runCommands** Runs commands in the terminal
 - > ✓  **runNotebooks** Run notebook cells
 - ✓  **runSubagent** Runs a task within an isolated subagent context. Enables efficient organiz...
 - > ✓  **runTasks** Runs tasks and gets their output for your workspace
 - ✓  **runTests** Runs unit tests (optionally with coverage)
 - > ✓  **search** Search and read files in your workspace
 - ✓  **testFailure** Includes information about the last unit test failure
 - ✓  **todos** Tool for managing and tracking todo items for task planning
 - ✓  **usages** Find references, definitions, and other usages of a symbol
 - ✓  **vscodeAPI** Use VS Code API references to answer questions about VS Code extension ...

Microsoft Playwright MCP





Task 2: Pick a task and write
<yourtask>.agent.md

Beast mode:

<https://gist.github.com/burkeholland/88af0249c4b6aff3820bf37898c8bacf>

Insights you can act on

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