Quick Start

This guide provides the essential steps to get `code_agent` installed and running on your local machine.

1. Prerequisites

- **Python 3.10+**: Ensure you have a modern version of Python installed.
- `uv or pip`: A Python package manager. `uv` is recommended for its speed.
- **Ollama**: For the agent's LLM capabilities, you need Ollama installed and running. You also need to have a model pulled. We recommend starting with `llama3`.

  ```
  ollama pull llama3
  ```

2. Installation

First, clone the repository and navigate into the project directory.

```
git clone https://github.com/your-username/code_agent.git
cd code_agent
```

Next, create a virtual environment and install the package in editable mode. Including the `[dev]` dependencies is recommended for development.

```
# Create and activate the virtual environment
uv venv
source .venv/bin/activate

# Install the package
uv pip install -e .[dev]
```

3. Configuration

Before running the agent, make sure your `code_agent/config/llm_config.json` is set up to use the model you have downloaded. For example:

```json
{
  "ollama_model": "llama3",
  "temperature": 0.7
}
```

4. Basic Usage

You can now use `code_agent` directly from your terminal.

Interactive Chat

The primary way to use the agent is through the interactive chat session.

```
code-agent chat
```

You can now give instructions to the agent in plain English: > "Create a Python file named 'app.py' and add a simple Flask 'Hello, World!' application to it."

Project Scaffolding

To create a new, well-structured Python project, use the `scaffold` command.

```
code-agent scaffold my-new-project --name MyProject
```

This will generate a new directory `my-new-project` with a recommended layout for source code, tests, and documentation.

Next Steps

You have now installed `code_agent` and seen how to perform basic tasks. To learn more, check out these documents:

- **Usage**: See a wide range of examples for both CLI and Python API usage.
- **Tools**: Discover the full suite of tools available to the agent.
- **Configuration**: Learn how to configure `code_agent` for your needs.
- **Agent Workflow**: Understand how the agent processes your requests.