

Installation Guide

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Installation

This guide provides detailed instructions for setting up `code-agent` and its dependencies on your local machine.

1. Prerequisites

Before you begin, ensure you have the following installed:

- **Python:** Version 3.10 or newer.
- **Git:** For cloning the repository.
- **Ollama:** The agent relies on [Ollama](#) to run local language models. Please follow their instructions to install it on your system.

After installing Ollama, you must pull a model for the agent to use. We recommend starting with `llama3` or a similar instruction-tuned model.

```
ollama pull llama3
```

2. Cloning the Repository

Get the source code by cloning the repository from GitHub.

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

3. Setting up the Environment and Installing Dependencies

We strongly recommend using `uv` for fast and reliable dependency management.

Using uv (Recommended)

1. **Create and activate a virtual environment:**

```
uv venv  
source .venv/bin/activate
```

2. **Install the package:** To install the project with all core and development dependencies, run:

```
uv pip install -e .[dev]
```

This installs the package in “editable” mode, which means that changes you make to the source code will be immediately available without needing to reinstall.

Using pip

If you prefer to use `pip`, you can follow these steps:

1. **Create and activate a virtual environment:**

```
python -m venv .venv  
source .venv/bin/activate
```

2. **Install the package:**

```
pip install -e .[dev]
```

4. Configuration

The agent’s behavior is controlled by the `code_agent/config/llm_config.json` file. Before running the agent for the first time, ensure the `ollama_model` specified in this file matches the model you pulled with Ollama.

Example `llm_config.json`:

```
{  
  "ollama_model": "llama3",  
  "temperature": 0.7,  
  "ollama_host": "http://localhost:11434"  
}
```

5. Verifying the Installation

You can verify that the installation was successful by running the interactive chat agent.

```
code-agent chat
```

If the agent starts up and you see the “Agent ready!” message, your installation is complete.