Ollama Run LLMs locally

CONCEPTS

The CLI is a client: it talks to a local server on port 11434. Desktop and systemd installs start it for you.

Registry ollama.com
↓ pull
Local models ollama ls
↓ run
Server port 11434
↓ HTTP API
Clients CLI, curl, apps

RUN AND CHAT

ollama run *<model>*
Start an interactive chat

ollama run *<model>* **"***<prompt>***"**
Answer one prompt and exit

cat *<file>* **| ollama run** *<model>* **"***<prompt>***"**
Feed a file as context

"""
Start and end multi-line input

MANAGE MODELS

ollama pull *<model>*
Download or update a model

ollama ls
List downloaded models

ollama ps
List loaded models

ollama stop *<model>*
Unload a running model

ollama rm *<model>*
Remove a model

ollama show *<model>*
Show details of a model

ollama create *<name>* **-f** *<Modelfile>*
Build a model from a Modelfile

IN-CHAT COMMANDS

/? / /help
Show help for slash commands

/bye
Leave the chat

/clear
Clear the session context

/set system *<text>*
Set the system message

/set parameter *<name> <value>*
Change a parameter, e.g. temperature

MODELFILE

Custom model

```
FROM llama3.2
PARAMETER temperature 0.7
PARAMETER num_ctx 8192
SYSTEM """You are a concise
assistant."""
```

FROM *<model or path>*
Base model, GGUF file or weights dir

PARAMETER *<name> <value>*
Set a runtime parameter

SYSTEM """*<text>***"""**
Set the system message

PARAMETER num_ctx *<n>*
Context window in tokens

SERVER AND ENVIRONMENT

ollama serve
Run the server in the foreground

OLLAMA_HOST=0.0.0.0:11434
Listen on all interfaces

REST API

POST /api/chat
Chat with message history

POST /api/generate
Complete a single prompt