META-META Club

WORKBOOK · MODULE 1 OF 6

CLI vs MCP

Agent-Built 3D. Two ways to let an agent drive your tools.

Pro studios | 2 lessons | 70 min | 4-question practice quiz | Notes pages

IN THIS MODULE

CLI vs MCP

Two ways to let an agent drive your tools.

#	LESSON	TYPE	TIME	DONE
1.1	CLI vs MCP	READ	30 min	☐
1.2	Talk: What AI agents can build	VIDEO	40 min	☐

How to use this workbook

- Work through each lesson on metametaclub.com/learn, or listen to its narration, then use the page here to take notes.
- Tick the steps as you go, and write your answers under **Check yourself** before you look anything up.
- Do the practice quiz at the end, then mark it with the answer key on the last pages.
- Keep every **Ship it** piece. Together they become what you show.

Before you start

What do you already know about this, and what do you want to be able to make by the end?

LESSON 1.1 · READ · 30 MIN

CLI vs MCP

Learn the two ways an AI agent can drive 3D tools, and choose the right one for a task.

Key points

Two ways in

CLI (command line). The agent writes a script and runs the tool from a terminal. For Blender, that means a Python file run headless:

The agent reads the output, looks at the render, and edits the script. Everything is a file, so everything can be saved, diffed and rerun.

MCP (Model Context Protocol). An open protocol that lets an agent call tools exposed by a server. An MCP server for Blender or Unity runs next to the app and offers actions such as "create object", "get scene info" or "take screenshot".

When each one wins

	CLI	MCP
Repeatable builds	Strong: the script is the record	Weaker: steps live in a chat
Live, visual tweaks	Slower: rerun each time	Strong: the app stays open
Batch jobs and renders	Strong	Possible, but awkward
Setup	Tool plus a terminal	Tool plus a server and add-on
Review	Read the script	Read the call log

A simple rule: **use MCP to explore, use the CLI to build.** Poke around live with MCP until you know what you want. Then have the agent write it down as a script you can run again.

Safety

Both give an agent real power over your files. Work in a project folder, keep it under version control, and read scripts before you run them.

Steps checklist

- [ ] Install Blender and confirm `blender --version` works in your terminal (or note the full path to the executable).
- [ ] Write a two-line script that adds a cube and saves the file. Run it with `-b -P`.
- [ ] Read the MCP introduction linked below, and find the config file your agent uses.
- [ ] Write down one task you would do with each approach.

This lesson has code samples. They are in the lesson on metametaclub.com/learn.

SHIP IT

A short note: one CLI task, one MCP task, and why.

☐ Shipped. Link or file: _____

Check yourself

1. What does an MCP server expose to an agent?

2. Why is a script easier to review than a chat full of tool calls?

3. Which approach would you use to render 50 variations overnight?

LESSON 1.2 · VIDEO · 40 MIN

Talk: What AI agents can build

Watch the talk this course grew from and turn it into a plan for your next six weeks.

Key points

About the talk

"What AI agents can build" is a Virtual is Real talk on directing agents to make 3D. It covers the arc this course follows: CLI vs MCP, a room from a prompt, scaling from a villa to a coast to an estate, a drawing set from the model, Unity over MCP, and the skills loop that makes good results repeatable.

How to watch it

Don't watch it like a show. Watch it like a builder with a notebook.

For each section, write down:

- **The ask.** What did the presenter ask the agent to do?
- **The result.** What came back on the first try?
- **The fix.** What did a person change, and why?
- **The reuse.** Could this step be saved and run again?

What to look for

- **Small asks win.** Agents do better with one clear change at a time than with a long wish list.
- **Scripts are memory.** When something works, it gets saved as code or as a skill, not left in the chat.
- **Taste is the job.** The agent is fast at placing things. Deciding what is good, and what to cut, stays with you.
- **The pipeline is the point.** Blender to browser to Unity is one flow, held together by open formats.

Steps checklist

- [ ] Open the talk page linked below.
- [ ] Make a four-column table: ask, result, fix, reuse.
- [ ] Fill one row per section of the talk.
- [ ] Circle the two sections you most want to try yourself.
- [ ] Write one question you still have. Bring it to the next critique.

SHIP IT

Your table, with two circled sections and one open question, posted in the course thread.

- [ ] Shipped. Link or file: _____

Check yourself

1. Can you name the six topics of the talk in order?

2. Can you give one example where a person corrected the agent?

3. Do you know which module covers each topic you circled?

PRACTICE QUIZ

Check your module

Circle one answer for each question. The answer key is on the next page.

1. What is MCP in this course?

(A) A Blender file format
(B) An open protocol that lets an agent call tools exposed by a server
(C) A 3D rendering engine
(D) A command-line flag for Unity

2. Which rule of thumb does the course give?

(A) Use the CLI to explore and MCP to build
(B) Always use MCP
(C) Use MCP to explore, the CLI to build
(D) Avoid agents for 3D

3. You need 50 render variations overnight. Which approach fits best?

(A) A CLI script run headless in a loop
(B) Clicking through the Blender UI
(C) Asking the agent over MCP one by one, live
(D) Exporting to a browser viewer

4. Why save working steps as scripts or skills?

(A) Chats are deleted after a week
(B) So good results can be reviewed and repeated
(C) Agents refuse to work without them
(D) Scripts render better images

ANSWER KEY

Answers and why

1 · B An open protocol that lets an agent call tools exposed by a server

The Model Context Protocol connects agents to tools such as Blender or Unity through servers that expose actions.

2 · C Use MCP to explore, the CLI to build

MCP is great for live poking; once you know what you want, a script makes it repeatable.

3 · A A CLI script run headless in a loop

Batch jobs are where headless scripts shine: no UI, repeatable, easy to loop.

4 · B So good results can be reviewed and repeated

Saved steps turn a lucky result into a repeatable one, which is the skills loop.

NOTES

Build log and notes

SESSION	WHAT I MADE OR LEARNED	NEXT STEP