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Model Context Protocol



Model Context Protocol

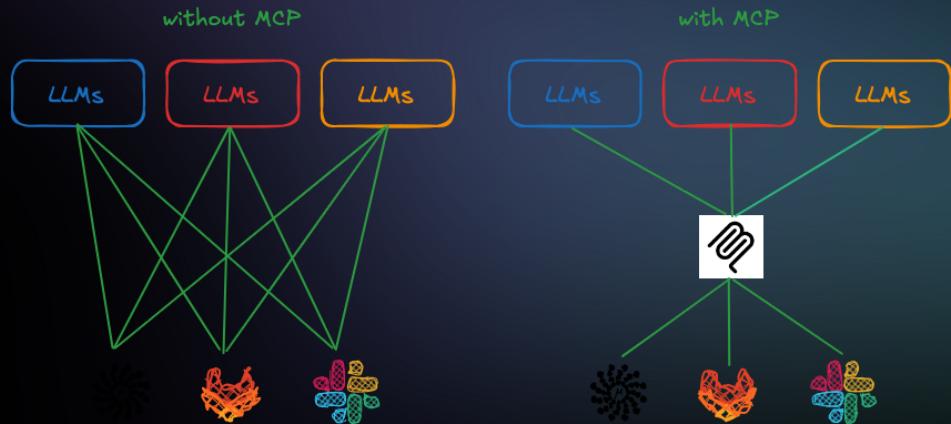
Progress

-  **What is MCP**
USB-C ports for AI applications
-  **Why we need**
Evolution from "toy" to "tool"
-  **MCP Core Component**
Host, Client & Server, etc.
-  **Advanced code examples**
How to create a MCP Server
-  **The Future**
Building the next-generation AI ecosystem together

What is MCP

Model Context Protocol



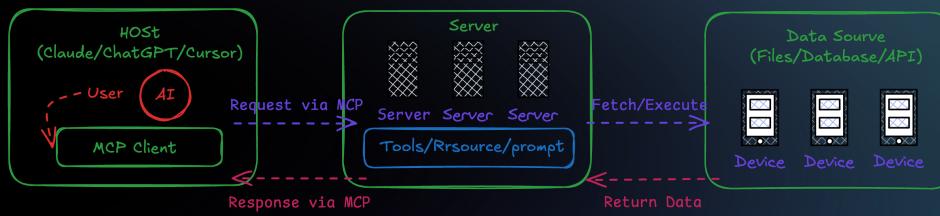


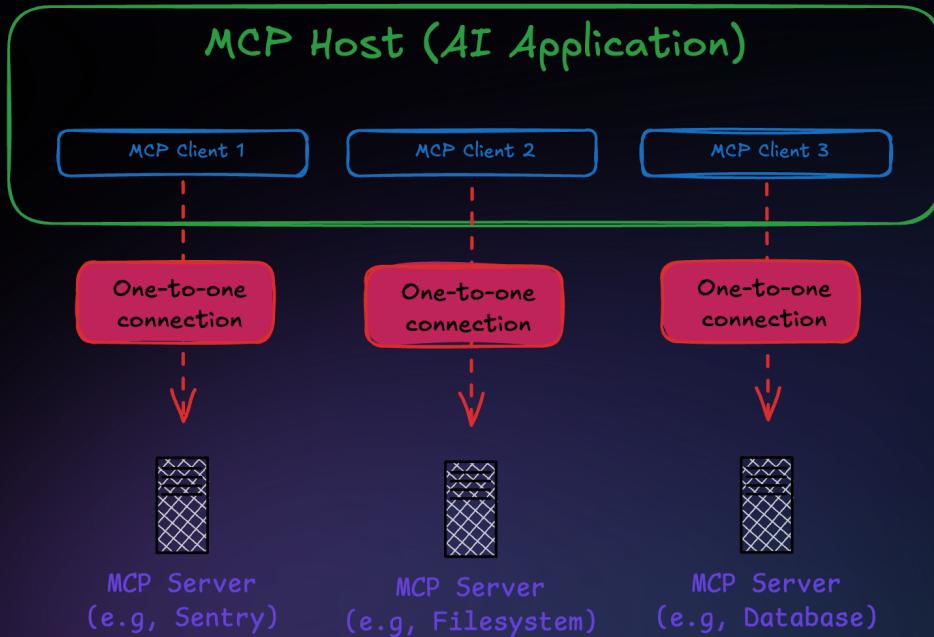
Why we need MCP?

Evolution from "toy" to "tool"

MCP Core Component

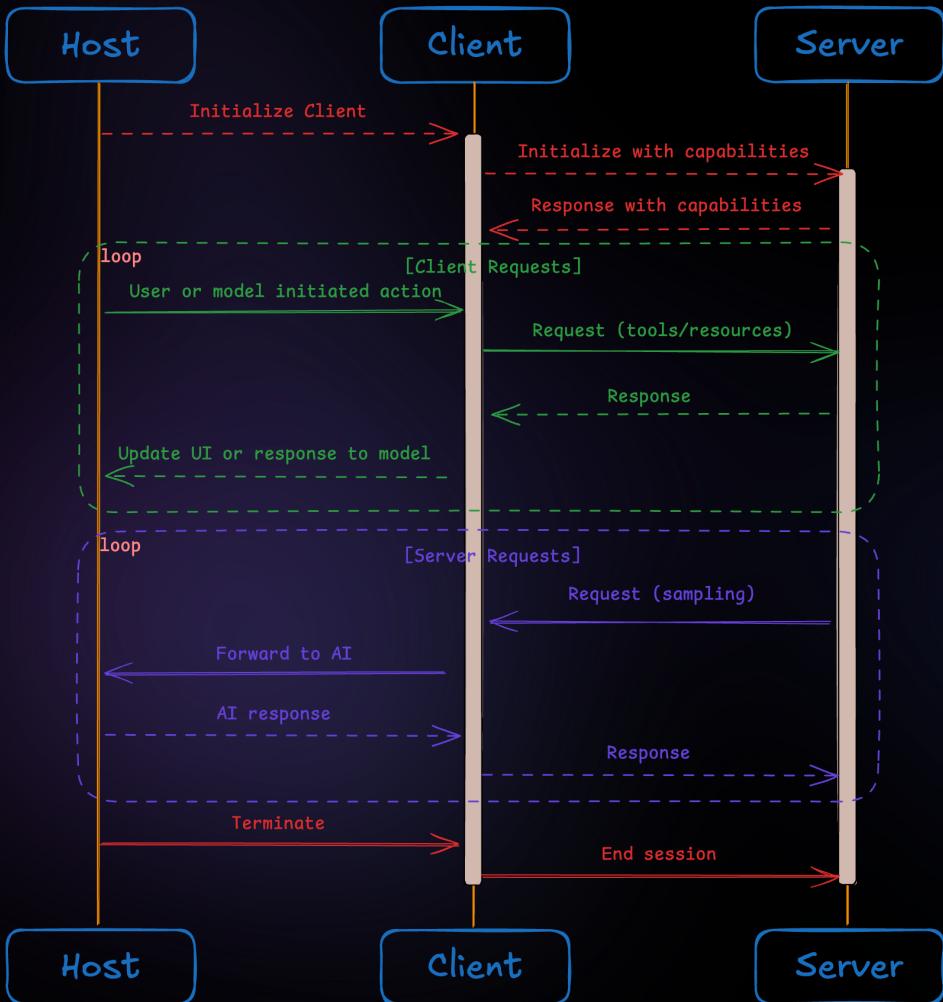
Host / Client / Server





MCP Architecture

Follows a client-host-server architecture



Capability Negotiation

a capability-based negotiation system

Demos

MCP Server

- Search Bilibili User Info With Claude
- Create MCP Server
- Register Tools
- Create Transport
 - StdioServerTransport
 - connect

```
#!/usr/bin/env node
import process from 'node:process'
import { McpServer } from '@modelcontextprotocol/sdk/server/mcp.js'
import { StdioServerTransport } from '@modelcontextprotocol/sdk/server/stdio.js'
import { registerSearchTools } from './tools/search'
import { registerUserTools } from './tools/user'
import { registerVideoTools } from './tools/video'

const server = new McpServer({
  name: 'bilibili-mcp-server',
  version: '0.0.1',
})

async function main(): Promise<void> {
  registerUserTools(server)
  registerSearchTools(server)
  registerVideoTools(server)

  const transport = new StdioServerTransport()
  await server.connect(transport)
}

main().catch((e) => {
  console.error('error in main():', e)
  // eslint-disable
  process.exit(1)
})
```

Welcome



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Future & Vision



Standardization

Provides a common language for AI to interact



Decoupling

Independent development and innovation



Composability

Ability Combination



Interoperability

Multi-environment support



Potential

Integrate Vitest UI, Oxlint visualization, etc.

Thank You

Slides available at yzl.me