LLDB MCP

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Generative AI

AI as a Feature

Traditional tools gain AI capabilities

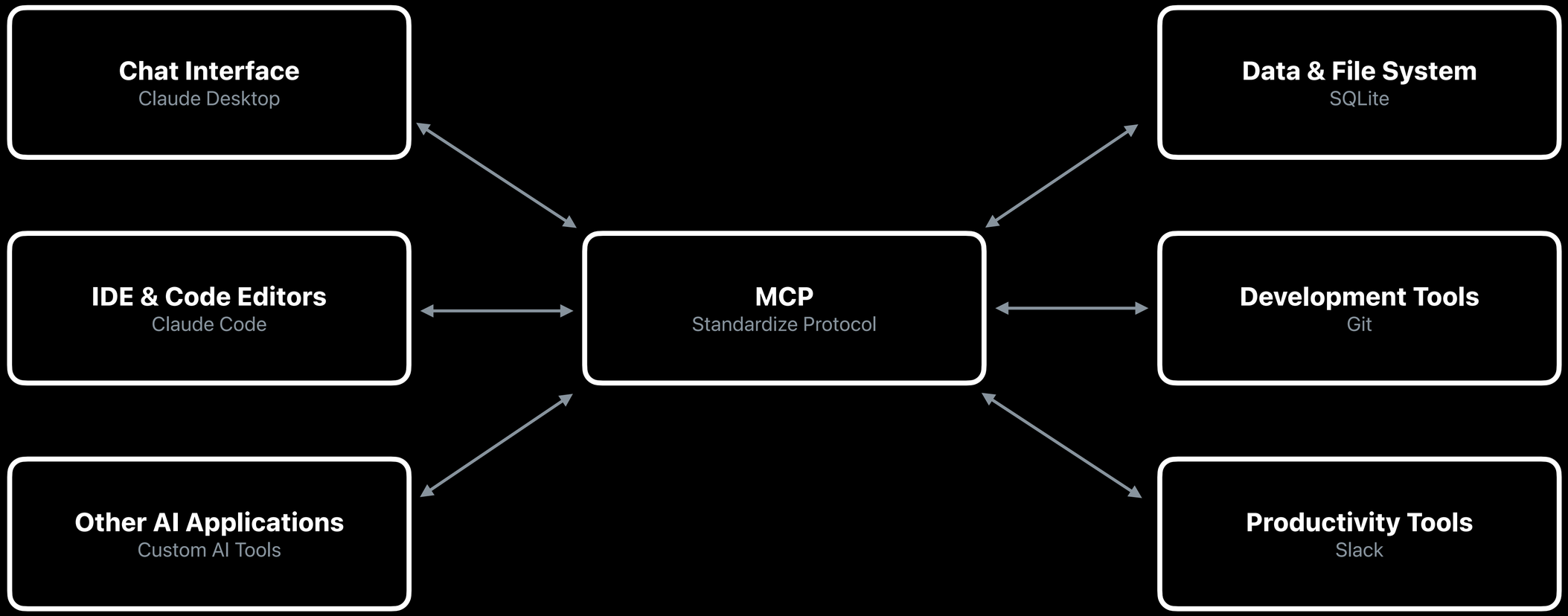
Automatically explain crashes based on the backtrace

AI as Orchestrator

AI gains traditional tool capabilities

Step through a loop until it does something special

Model Context Protocol



MCP Server

Resource

File-like data that can be read by clients

Tool

Functions that can be called by the LLM

Prompt

Templates that help users accomplish specific tasks

Tools

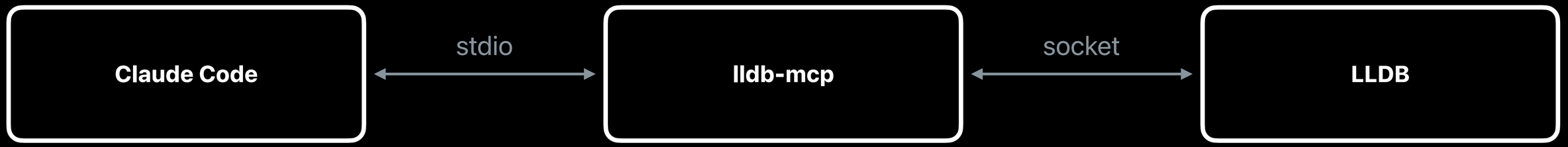
```
{
  "name": "command",
  "description": "Run any lldb command.",
  "inputSchema": {
    ...
  }
}
```

Resources

```
{
  "name": "debugger #1",
  "uri": "lldb://debugger/1",
  "description": "<description of debugger #1>",
},
{
  "name": "target #0",
  "uri": "lldb://debugger/1/target/0",
  "description": "<description of target #0>",
}
```

Connecting to LLDB MCP

```
$ claude mcp add --transport stdio LLDB /path/to/lldb-mcp
```



Connecting to LLDB MCP

```
(lldb) protocol-server start MCP listen://localhost:59999

MCP server started with connection listeners: connection://[::1]:59999,
connection://[127.0.0.1]:59999
```