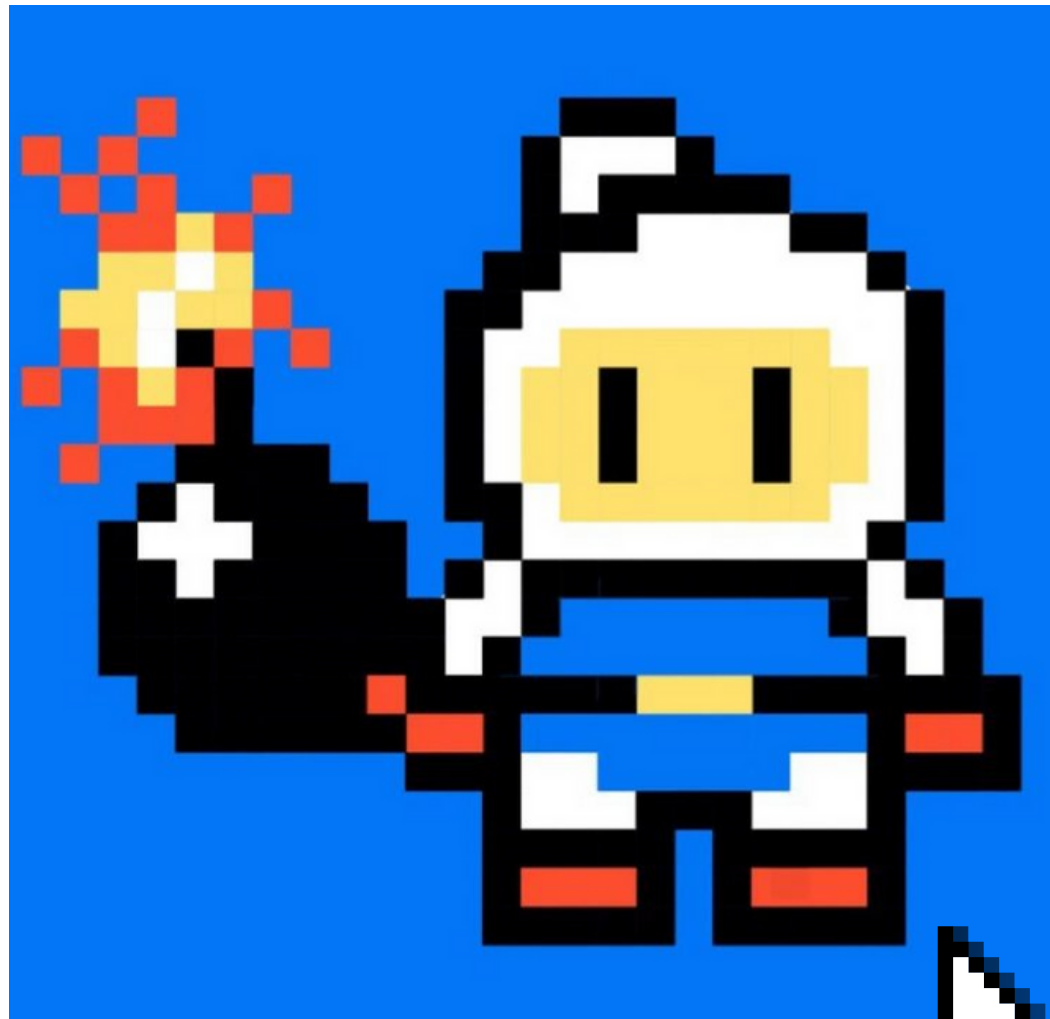
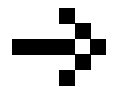


Bomberman XYZ



WITH RSocket

Learn the basics of RSocket Java & JS with an online game example





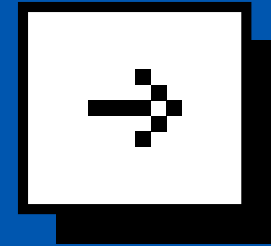
Sergey Tselovanikov



Oleh Dokuka



Step 1: The Plan



Intro

Learn the RSocket basics and the target application architecture and design

Game Server

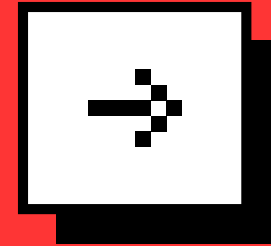
Connect Browser UI to Game Server via RSocket.
Integrate Spring with Micrometer

Mesh

Connect multiple game servers together via RSocket



Step 2: Before You Start

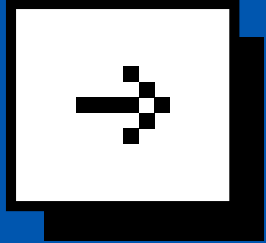


Who this workshop is for

- You know a bit of Spring
- You know a bit of Reactive Programming
- You want to learn more!

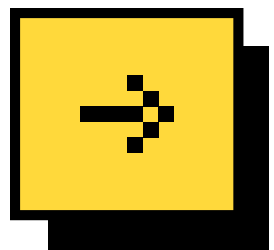


Step 3: What's next



- Open *workshop.bombberman.xyz* and clone the repo. Start from the *initial* branch, peak (don't) at *master*.
- You can follow the steps
- We are going to code
- You need to ask questions. We will be answering them.





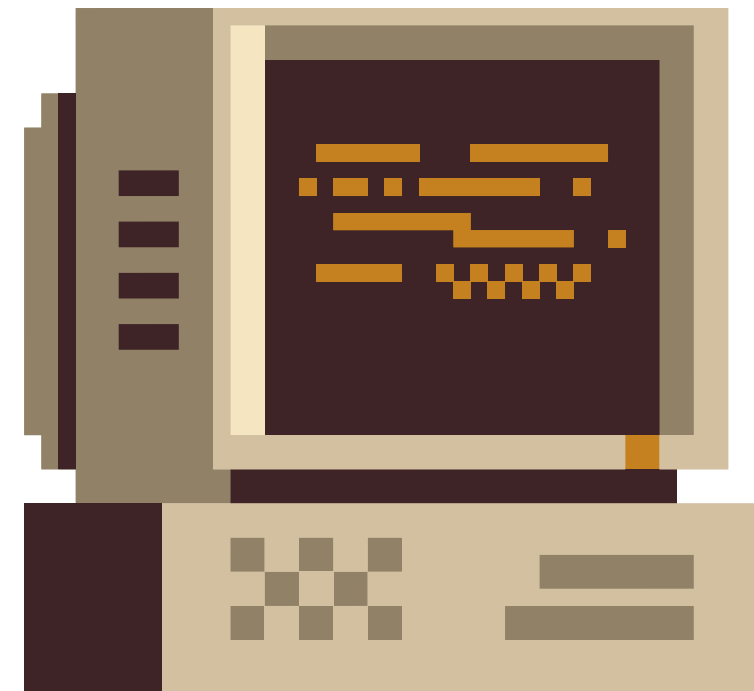
- Open Source Layer 5/6 communication protocol
- Implements Reactive Streams semantics
- Supports both RPC and event-based messaging
- Up to 10x faster than HTTP/1.1, using 90% less resources



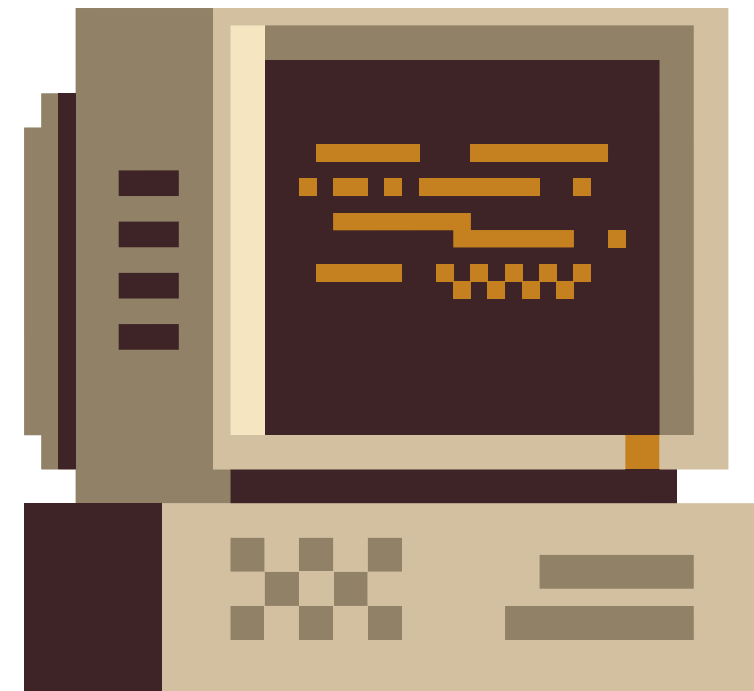
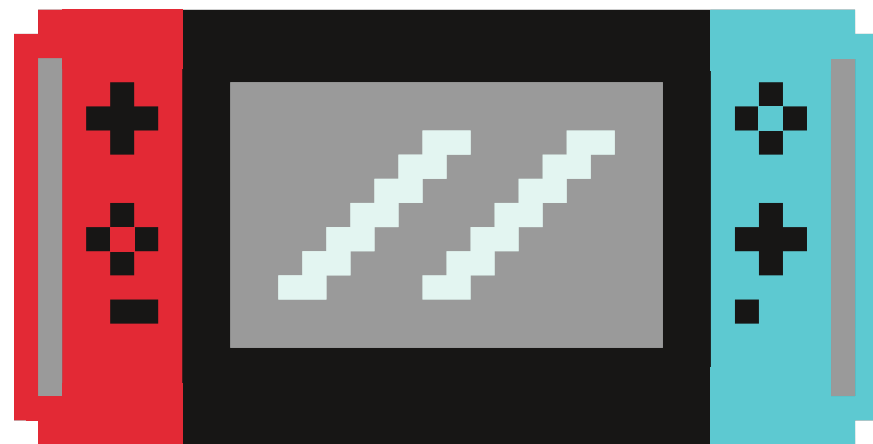
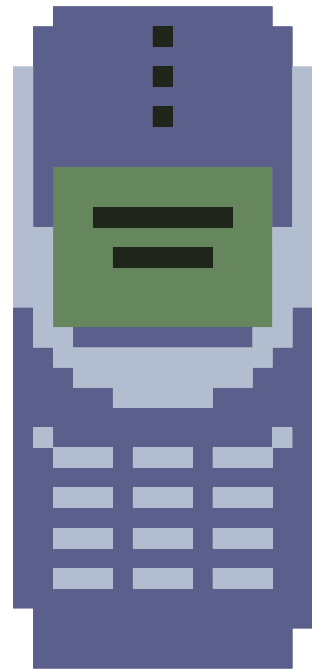
Architecture 1.0



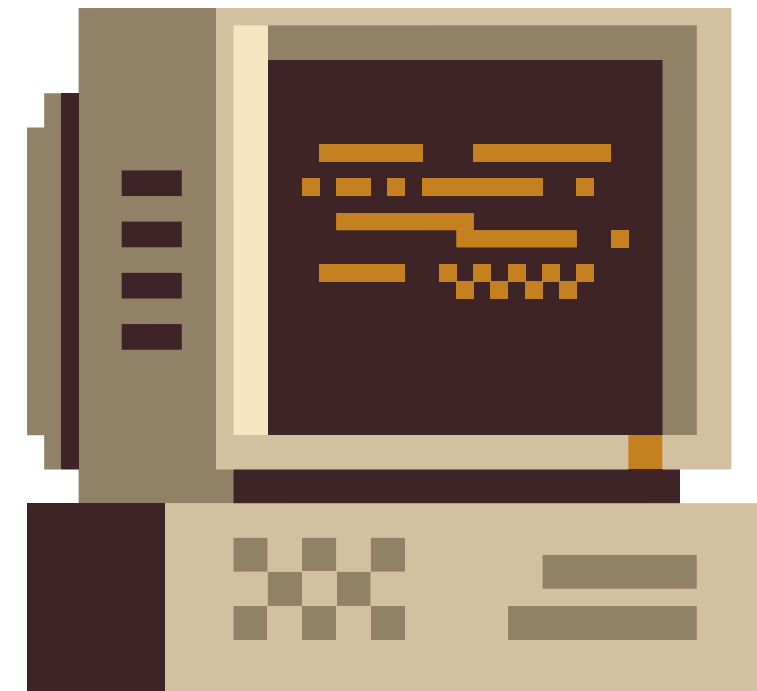
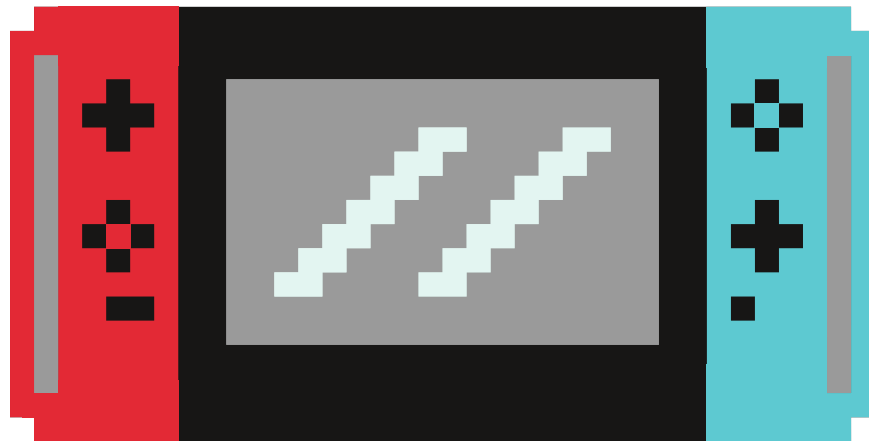
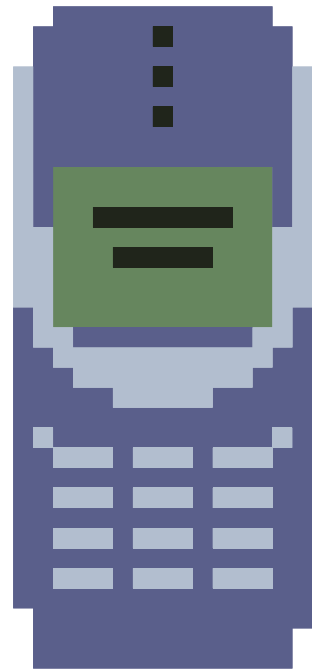
Architecture 1.0



Architecture 1.0



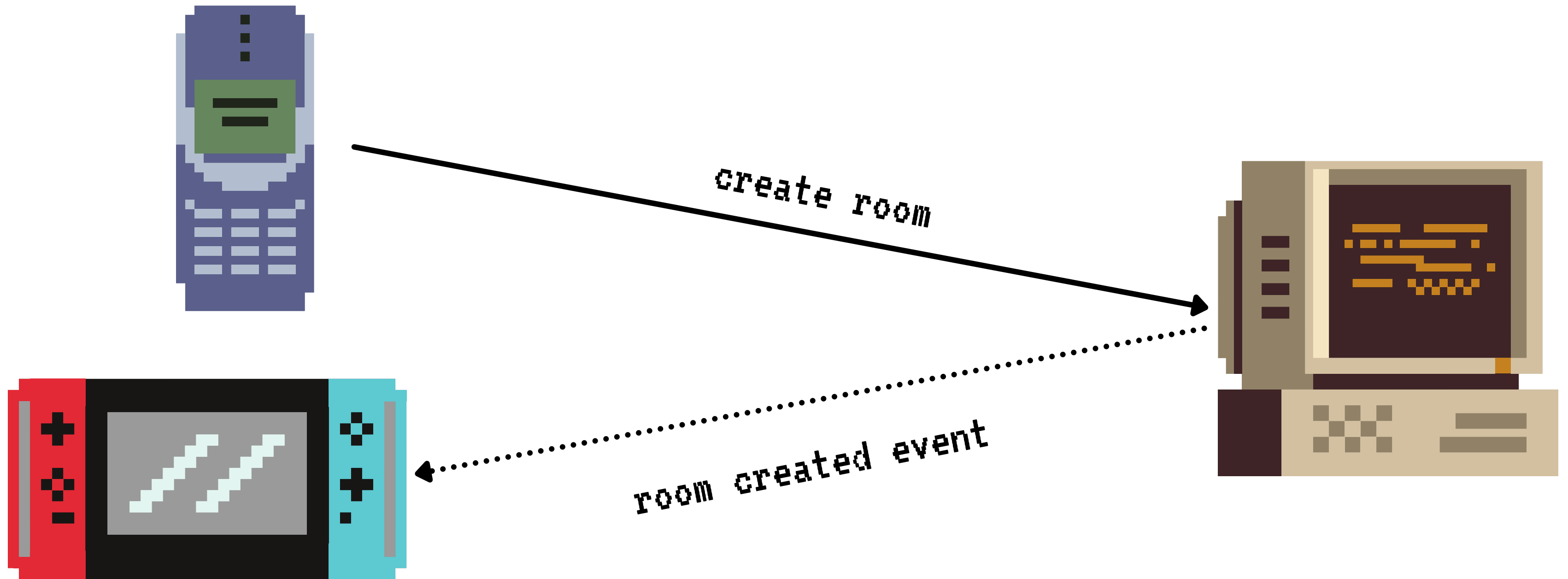
Architecture 1.0



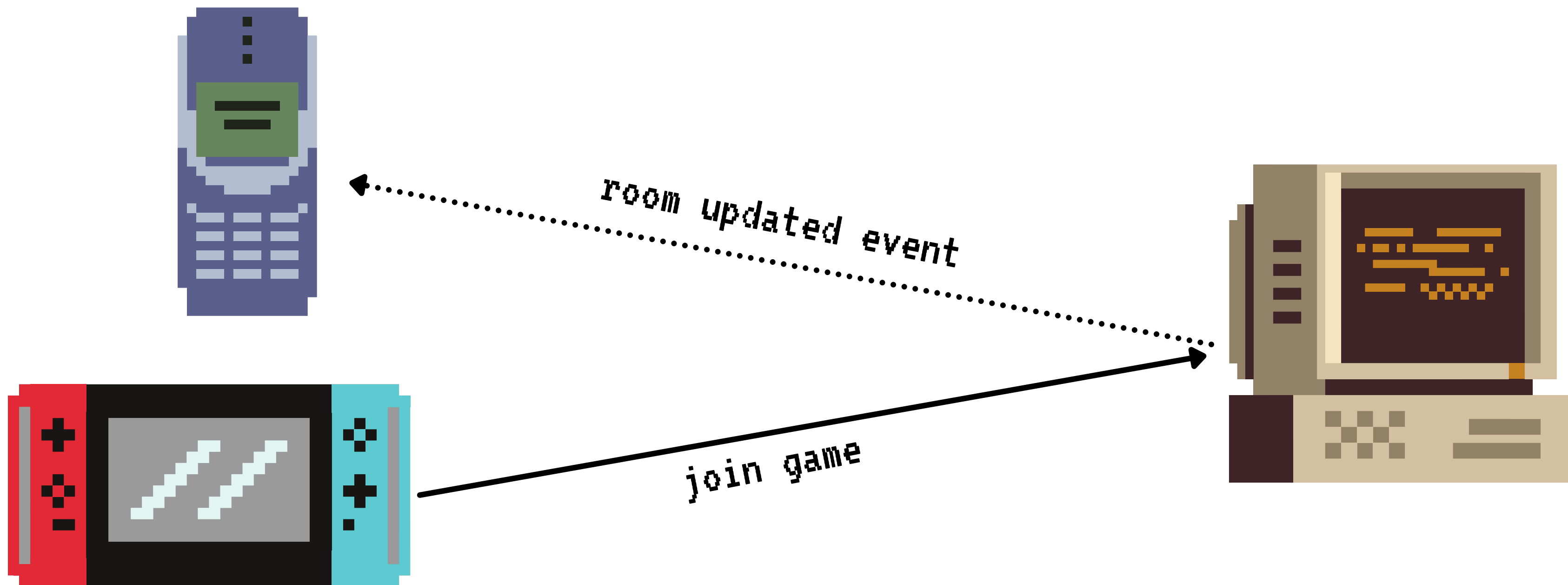
Rooms :
room1, room2

Players :
player1, player2

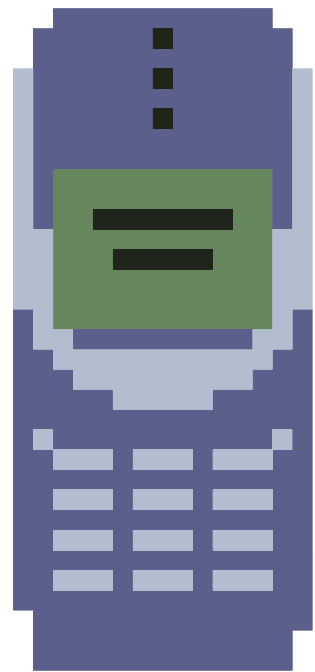
Architecture 1.0



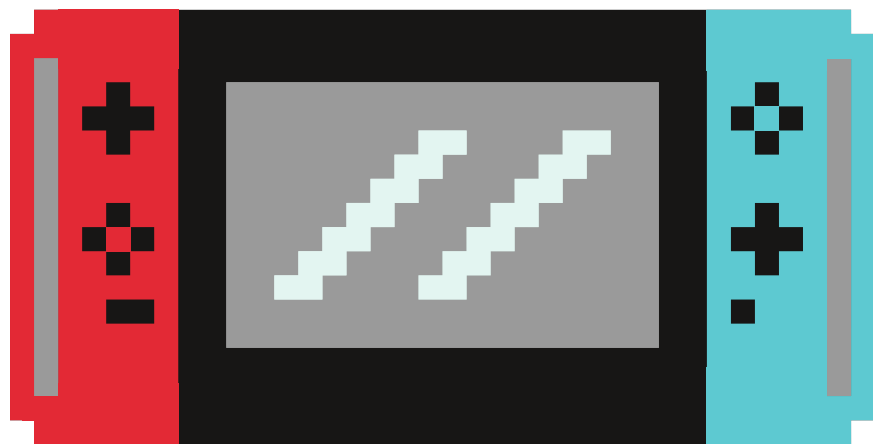
Architecture 1.0



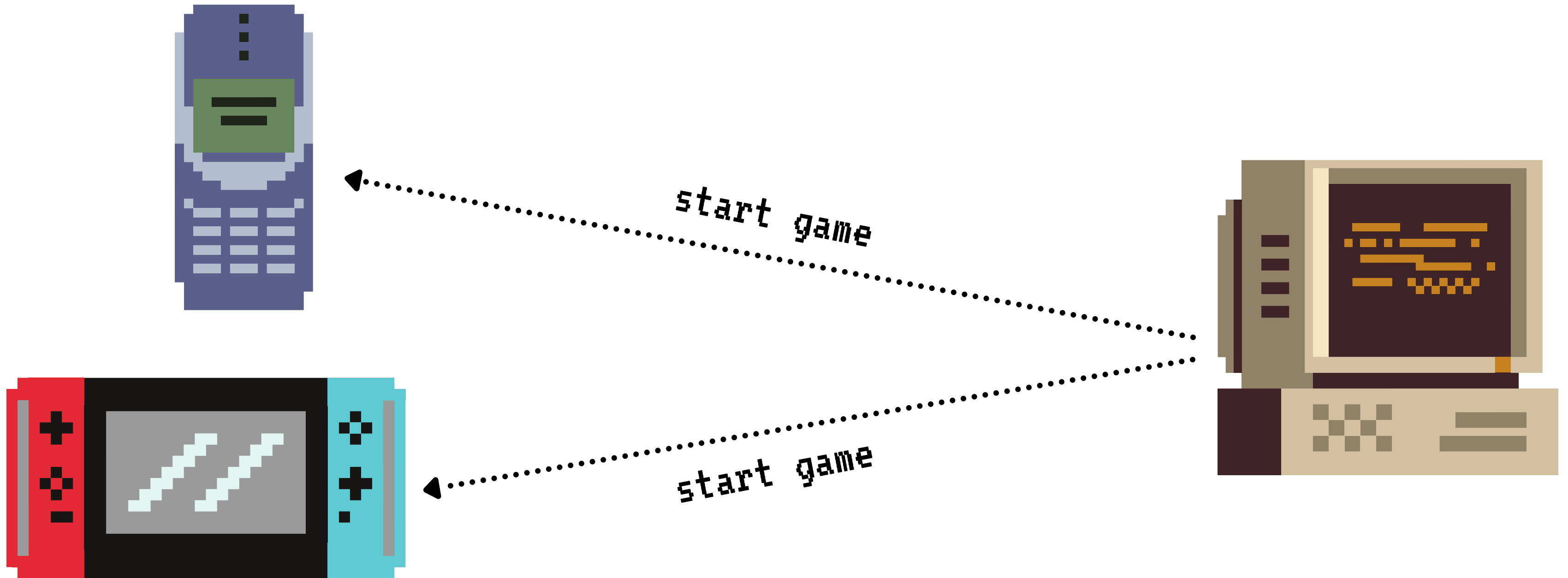
Architecture 1.0



launch game



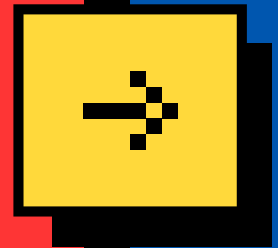
Architecture 1.0





LET'S CODE

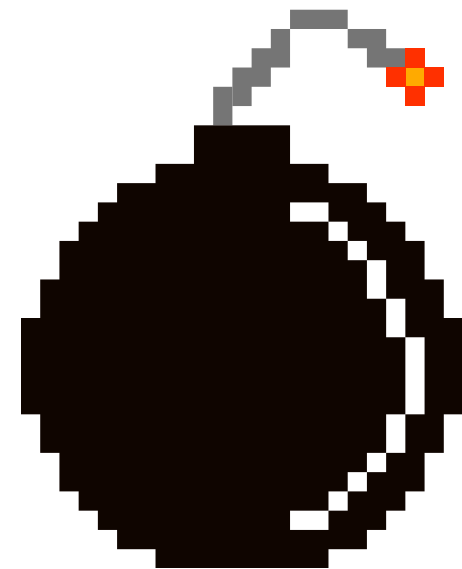
We hope you'll learn something new!





Performance

Performance is important...





Observability

Observability is more important...



What to monitor



CPU monitoring is important ...

What to monitor



CPU monitoring is important ...



Memory can be surprisingly important

What to monitor



CPU monitoring is important ...

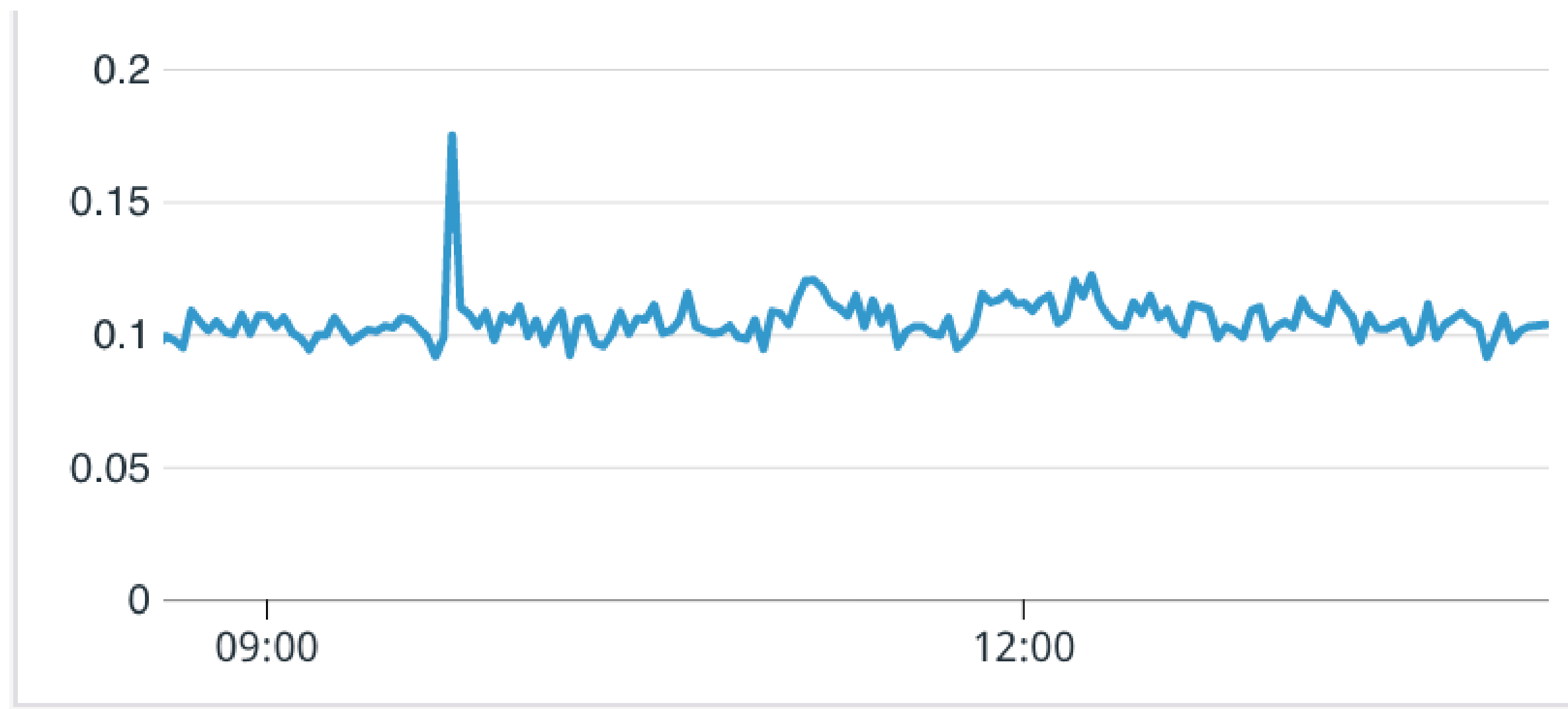


Memory can be surprisingly important



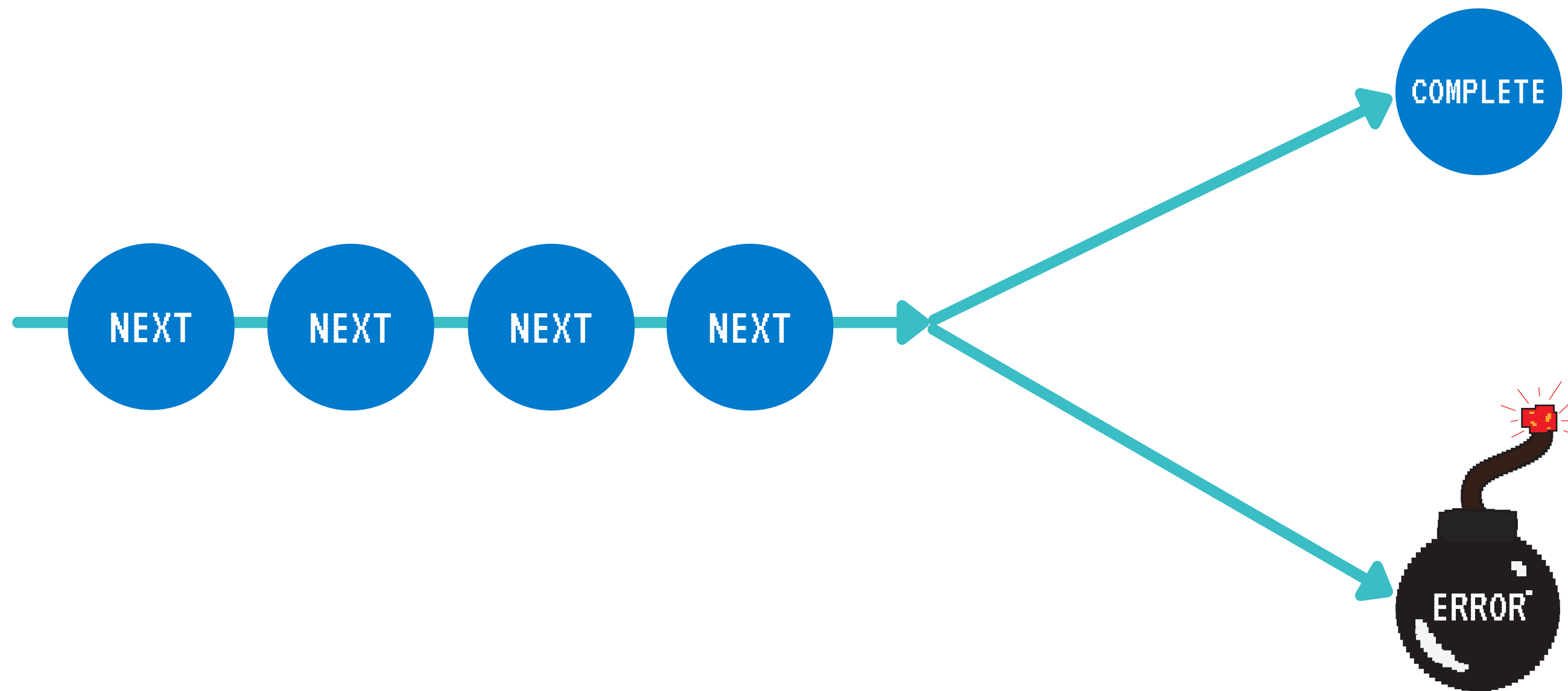
There are things specific to highly collaborative applications

Streams

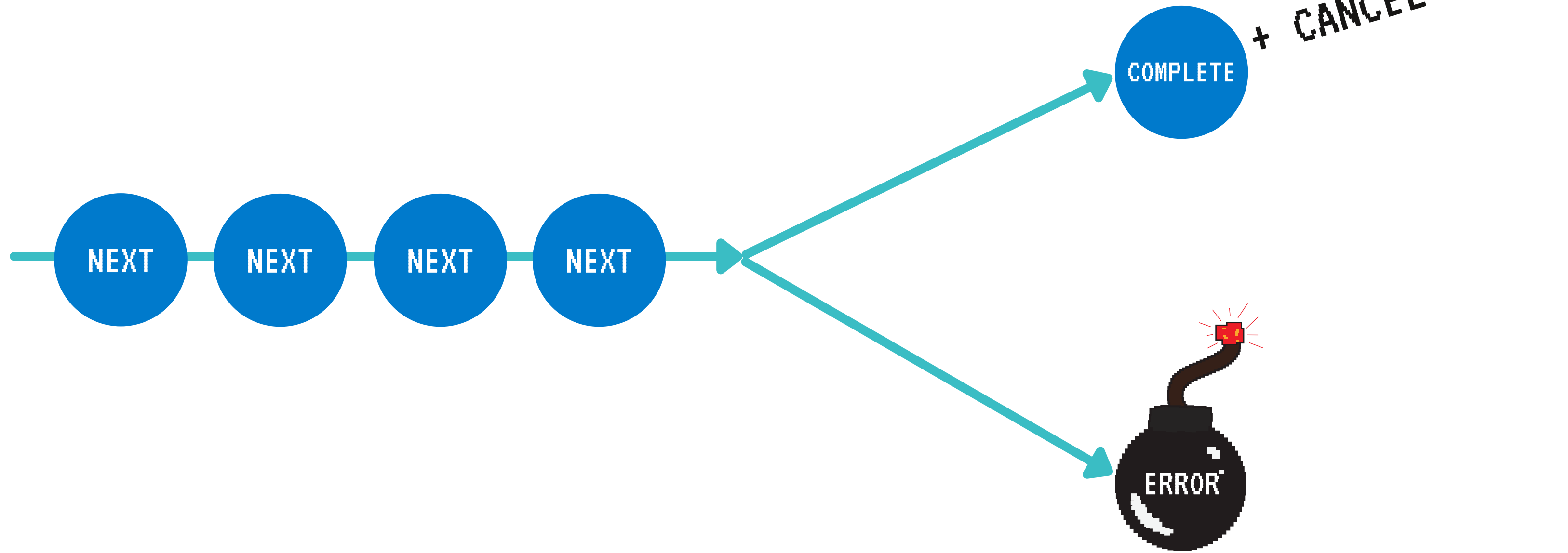


Error Rate

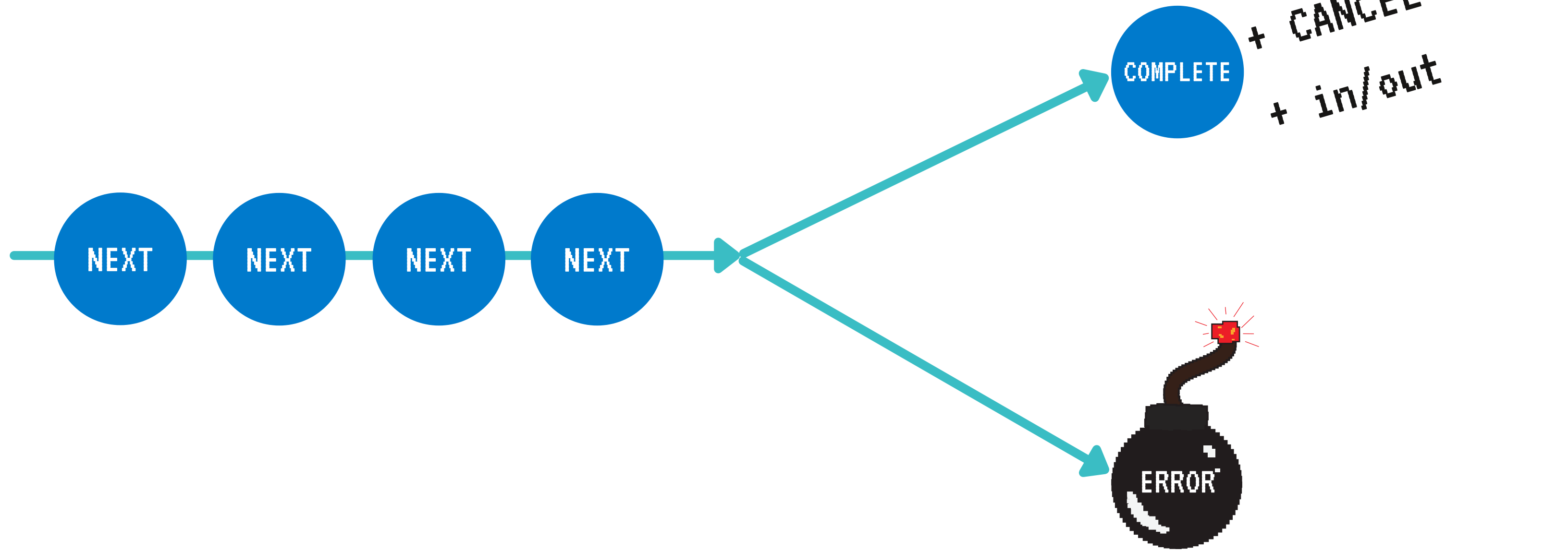
Streams



Streams



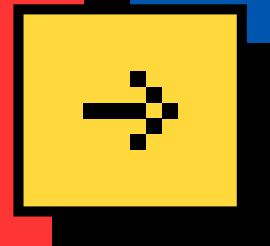
Streams



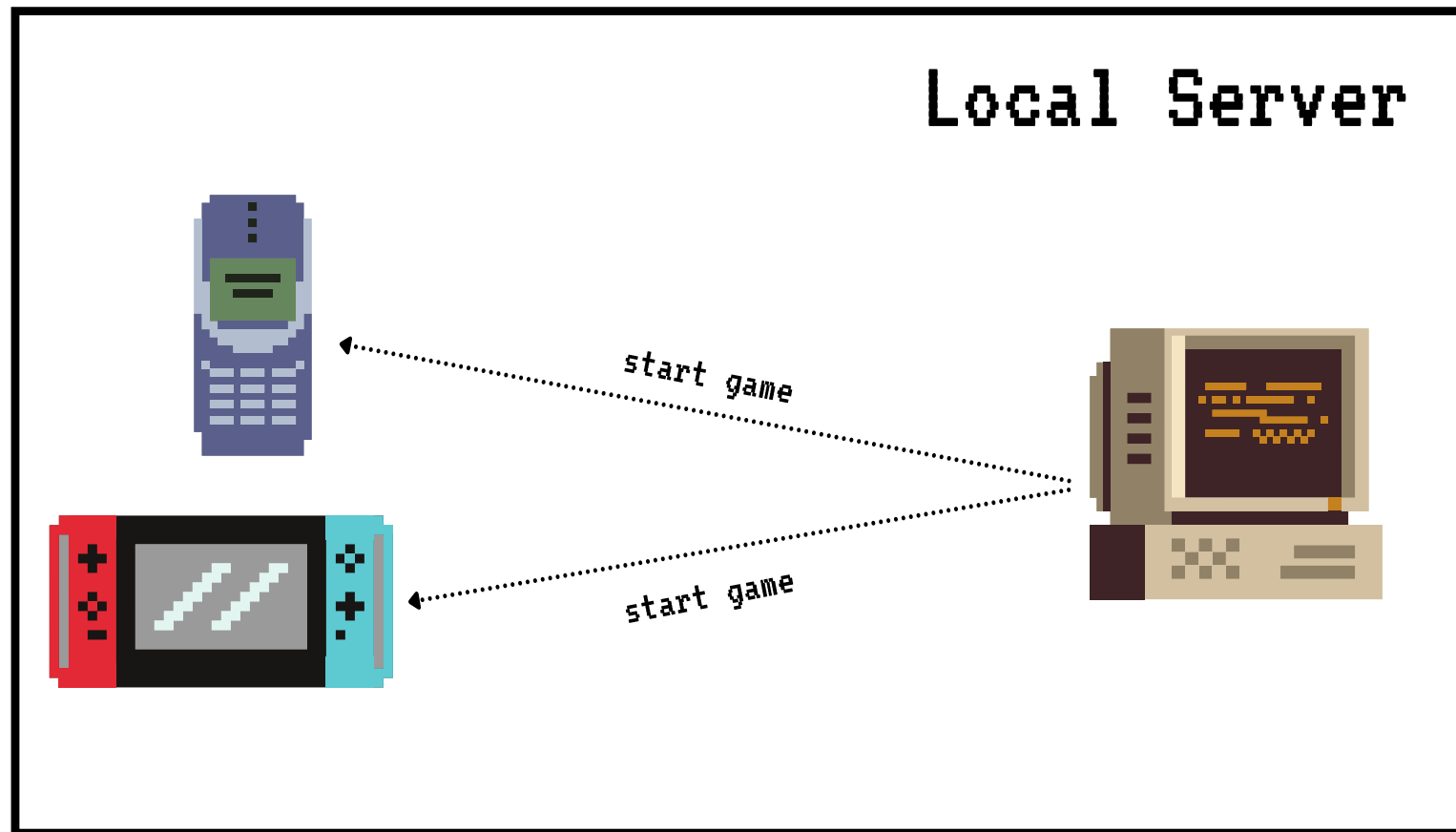


LET'S CODE

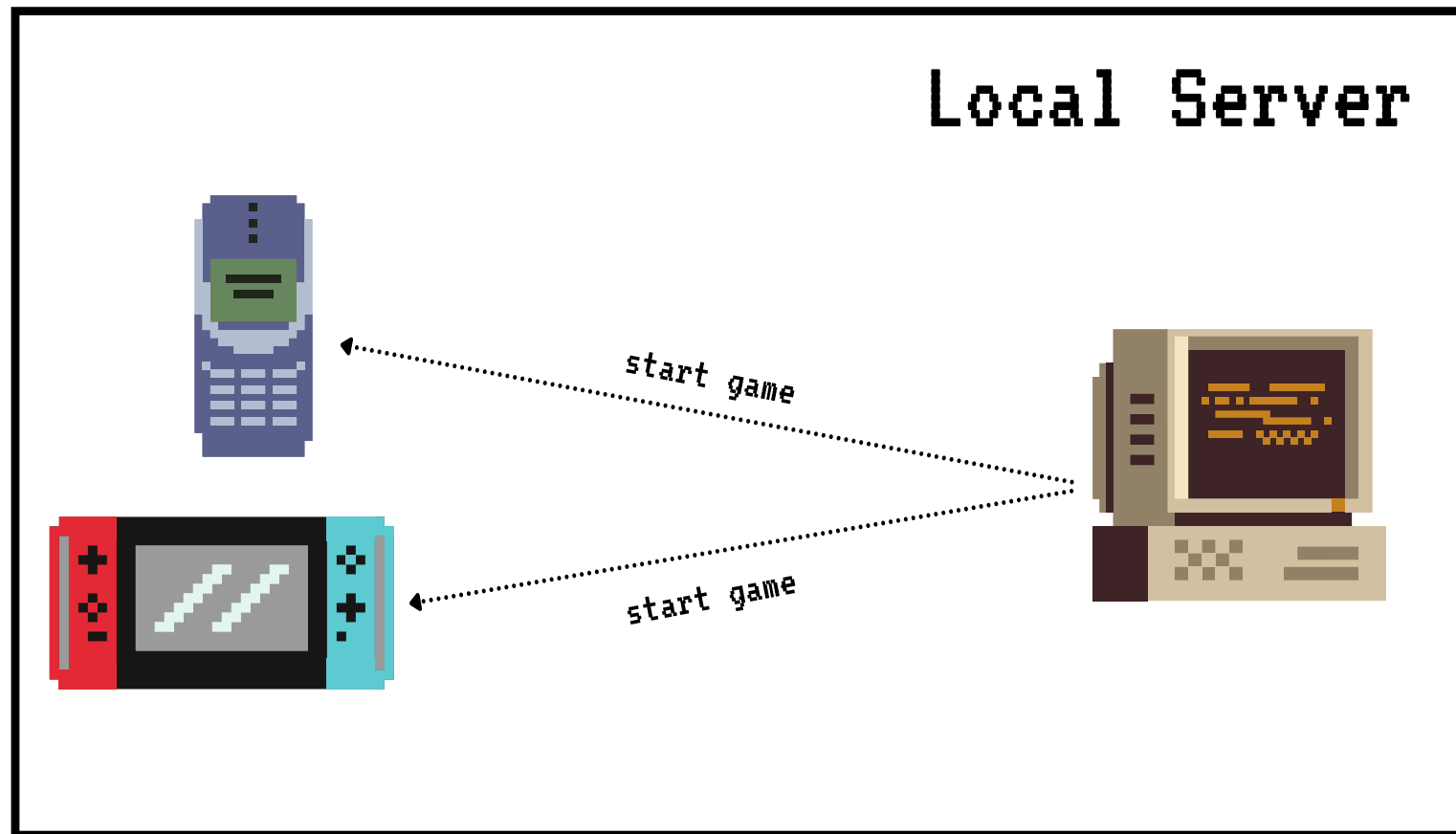
We hope you'll learn more things about RSocket observability!



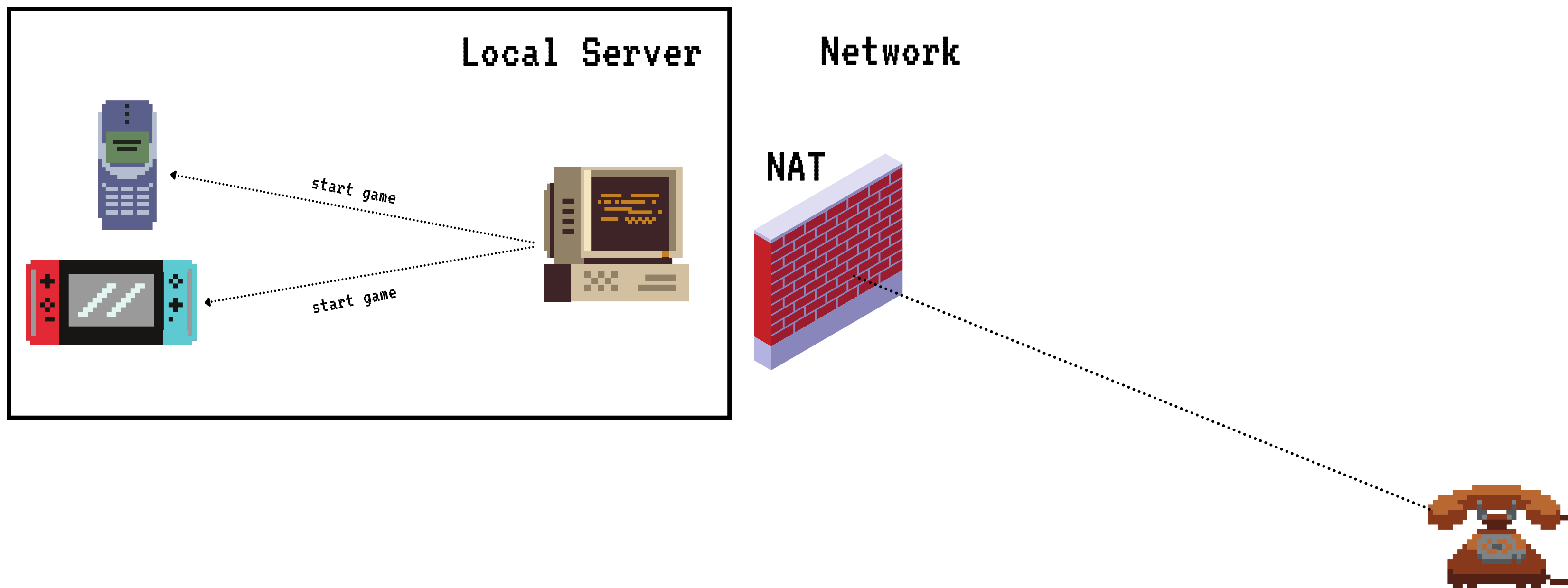
Architecture 1.0



Architecture 1.0



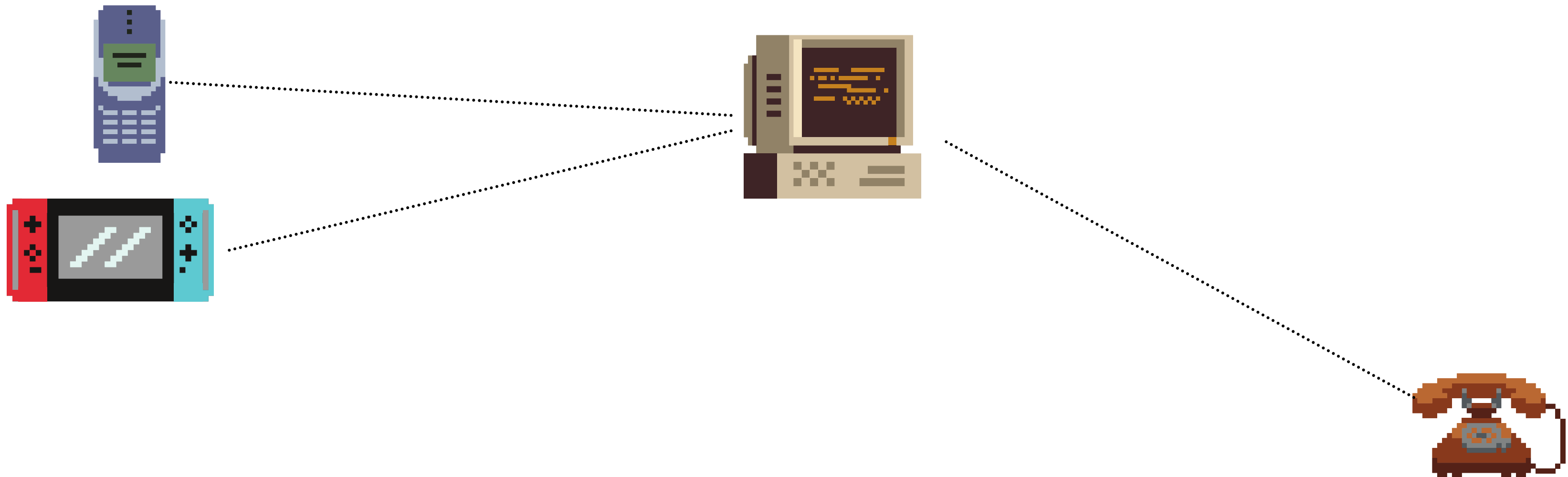
Architecture 1.0



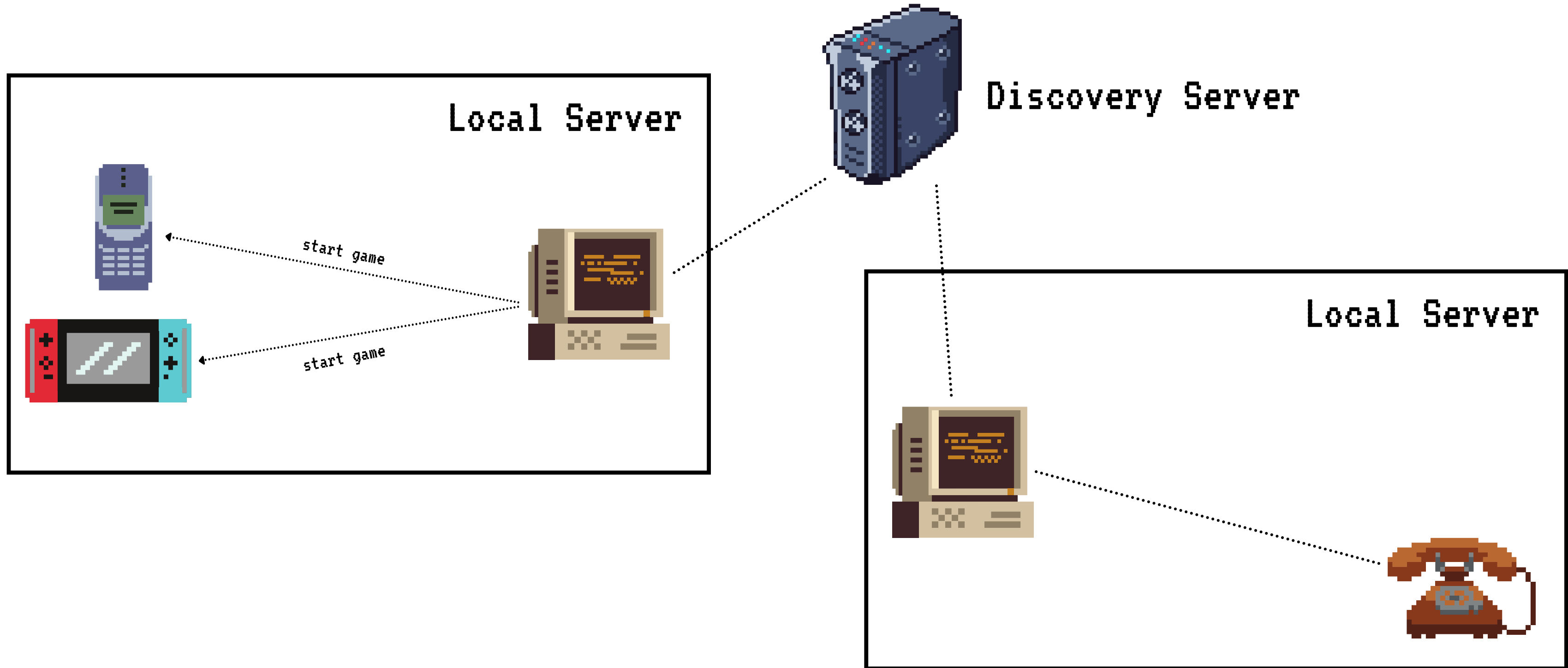
Architecture 1.0



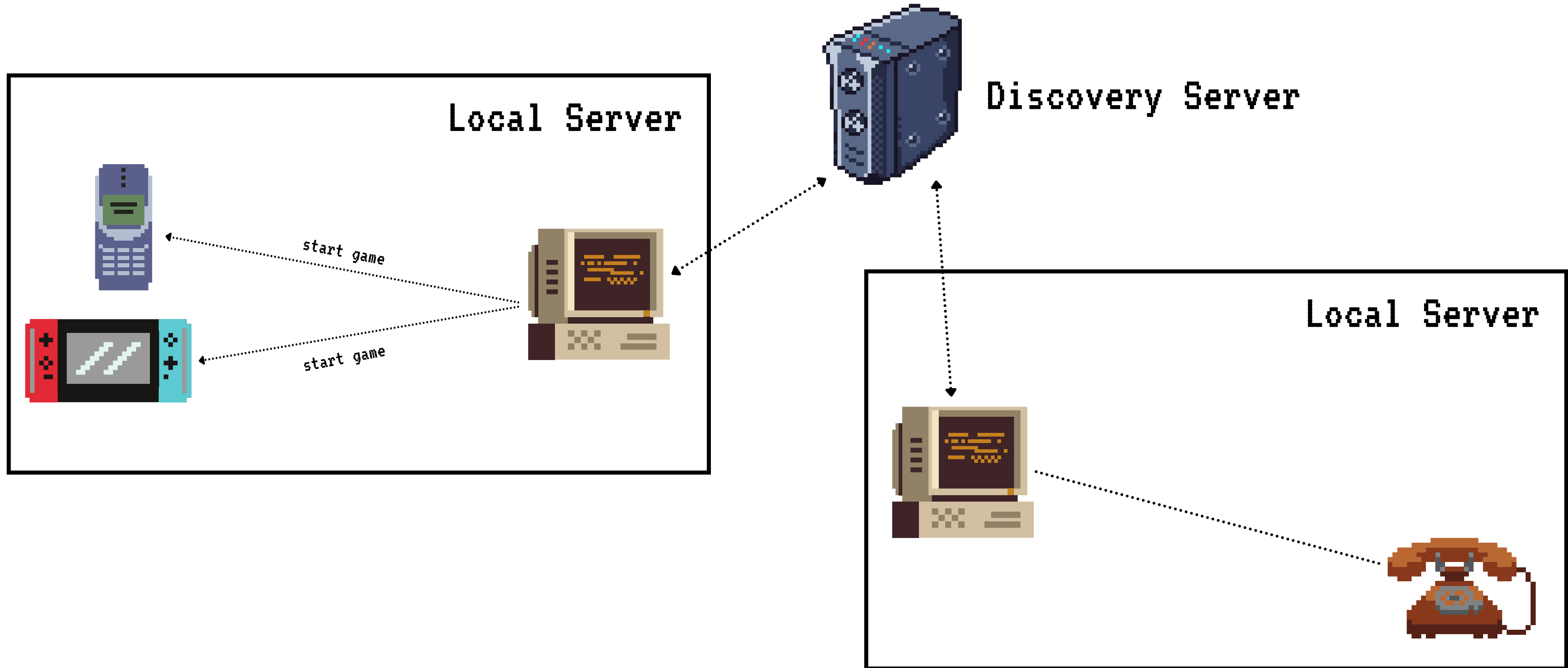
Hosted Server



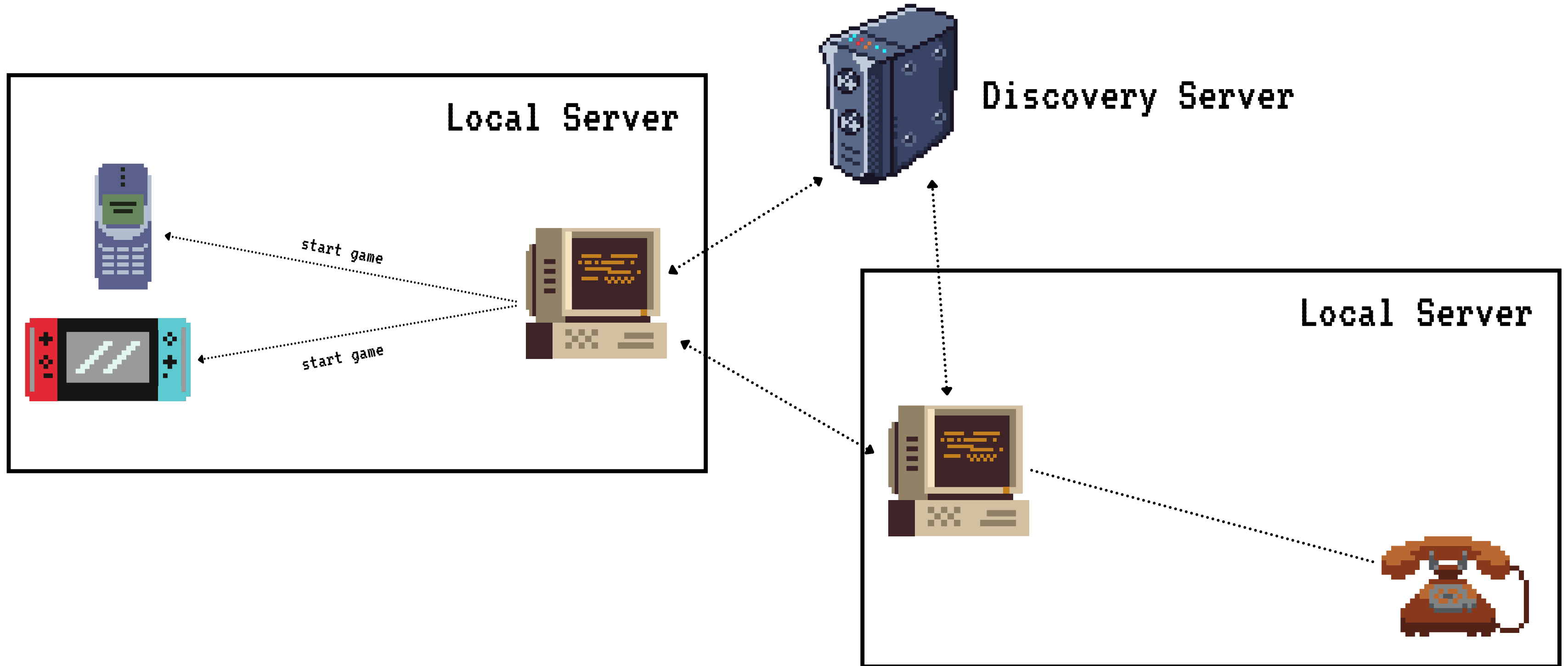
Architecture 2.0



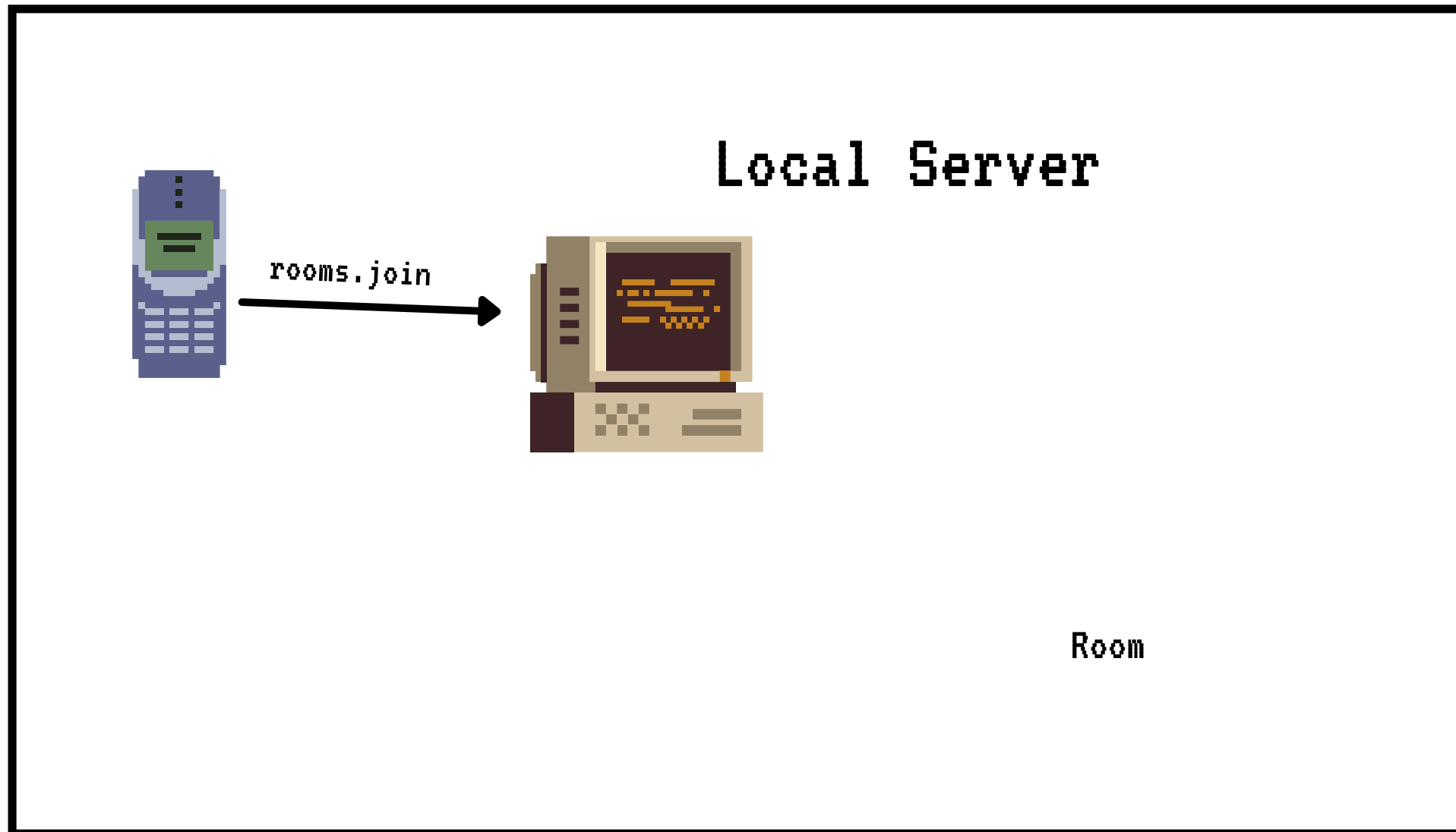
Architecture 2.0



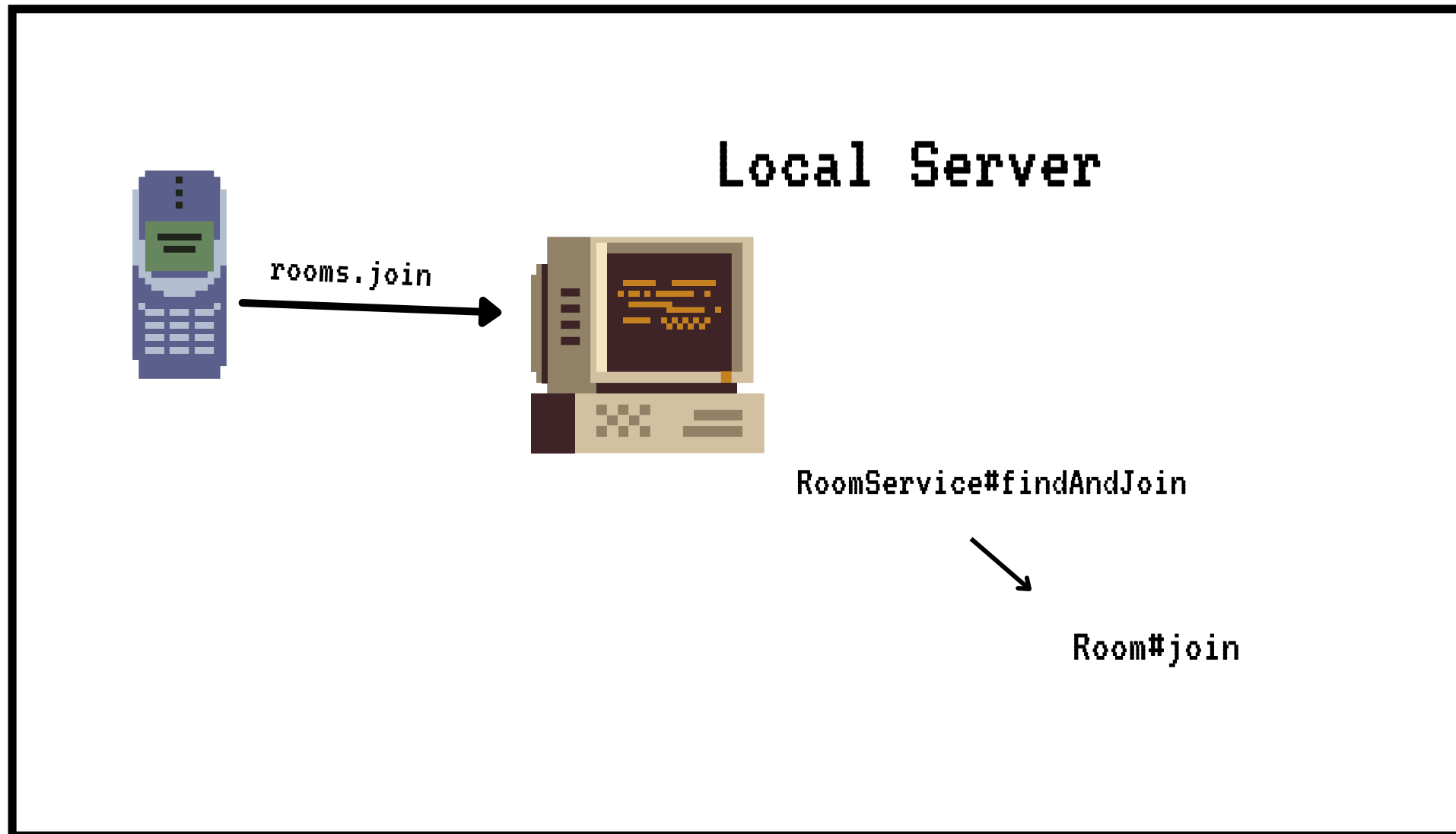
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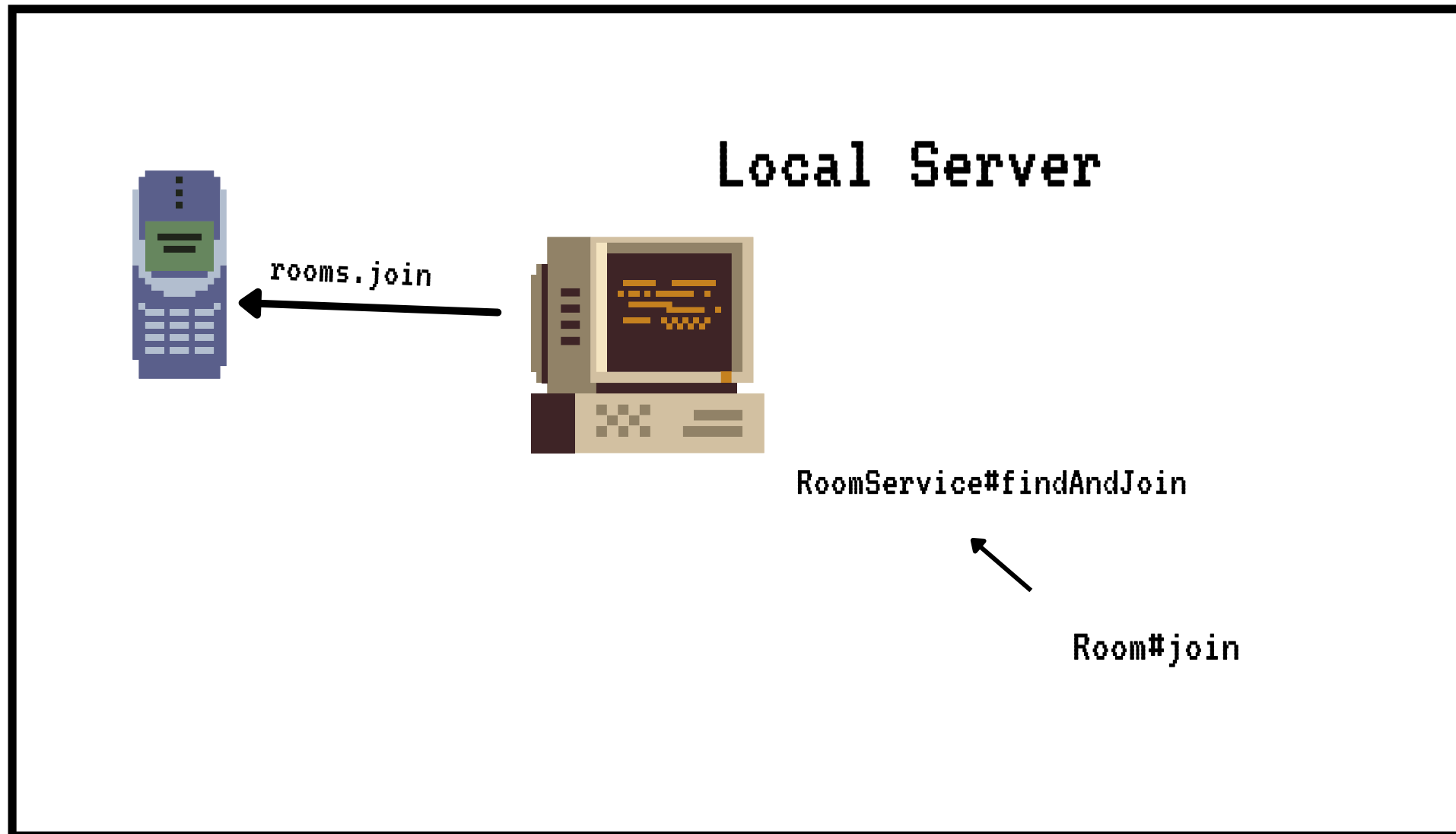
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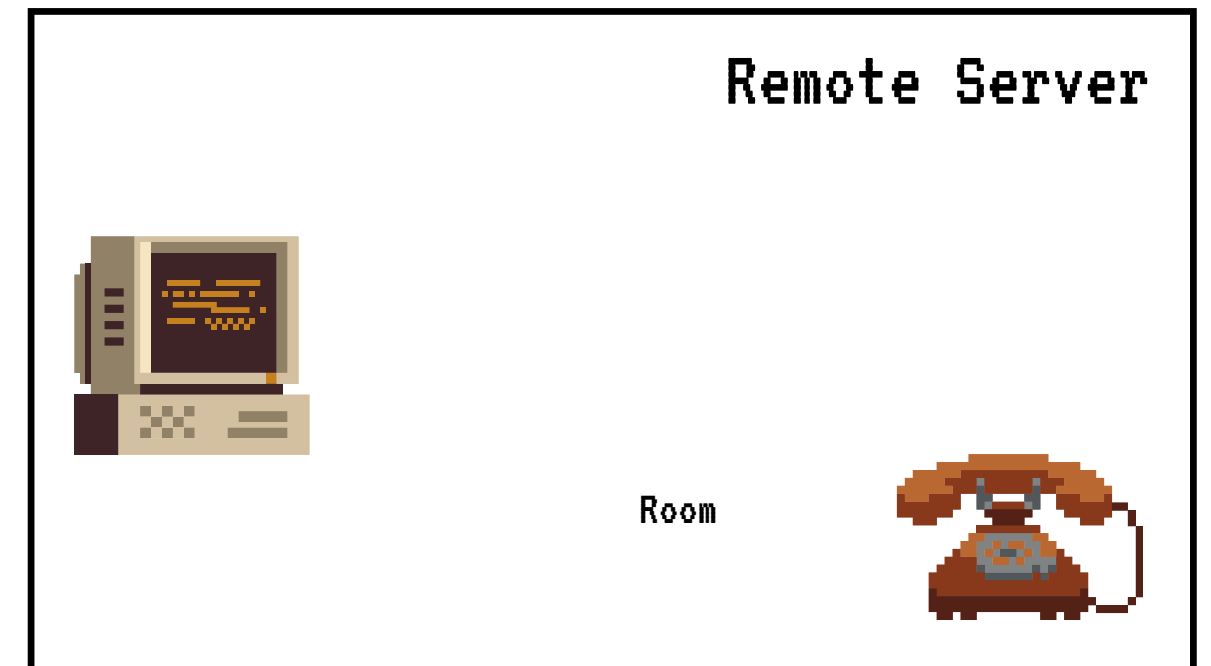
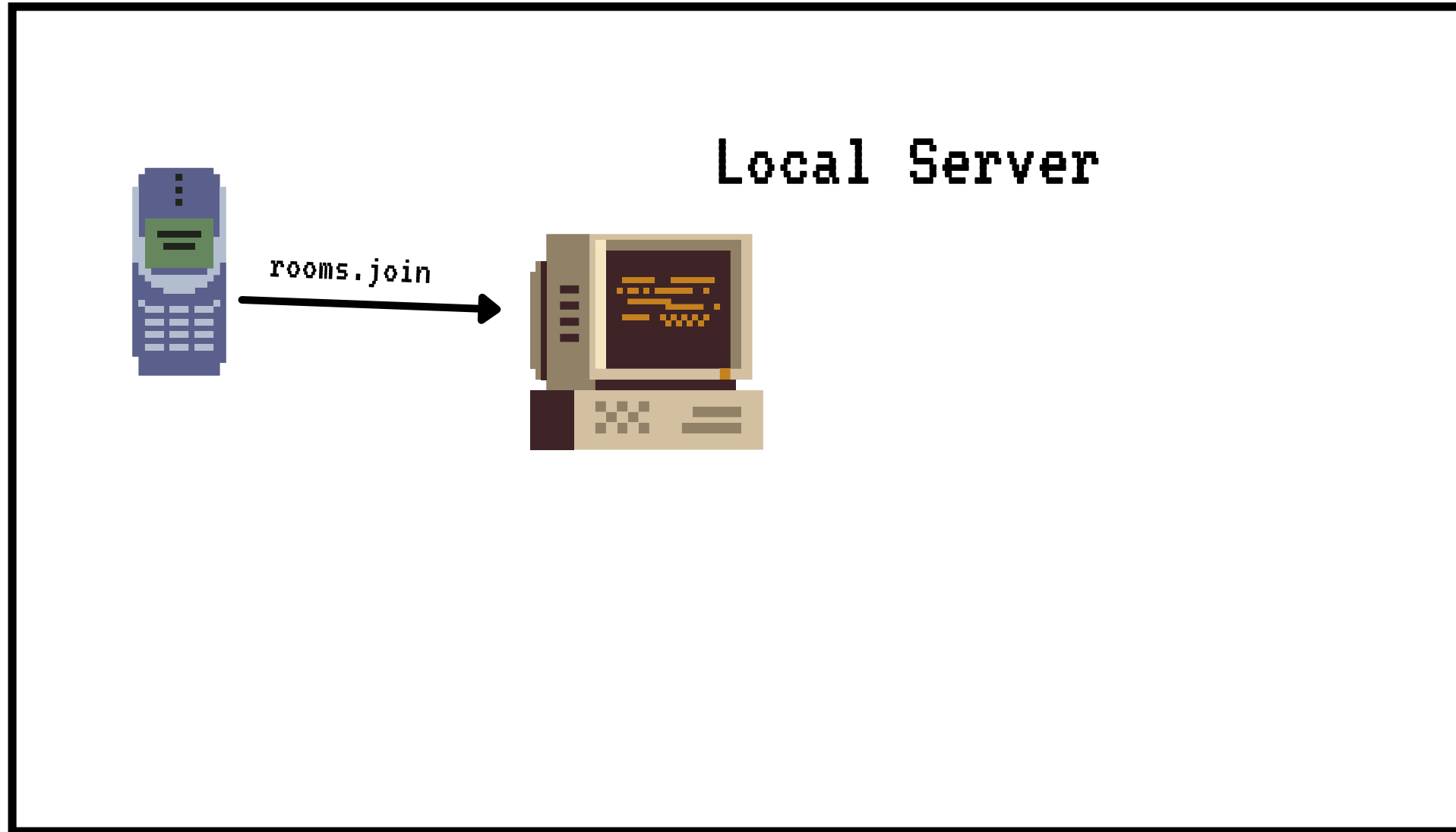
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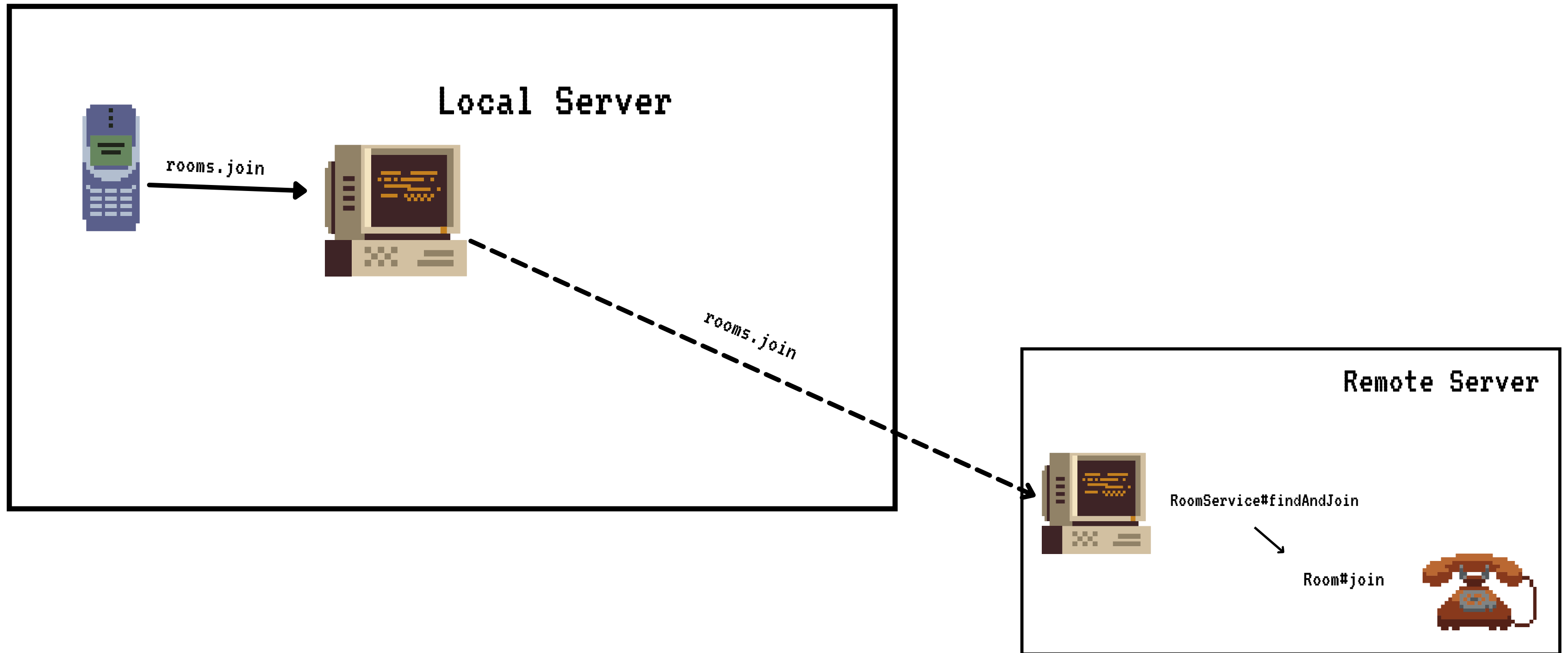
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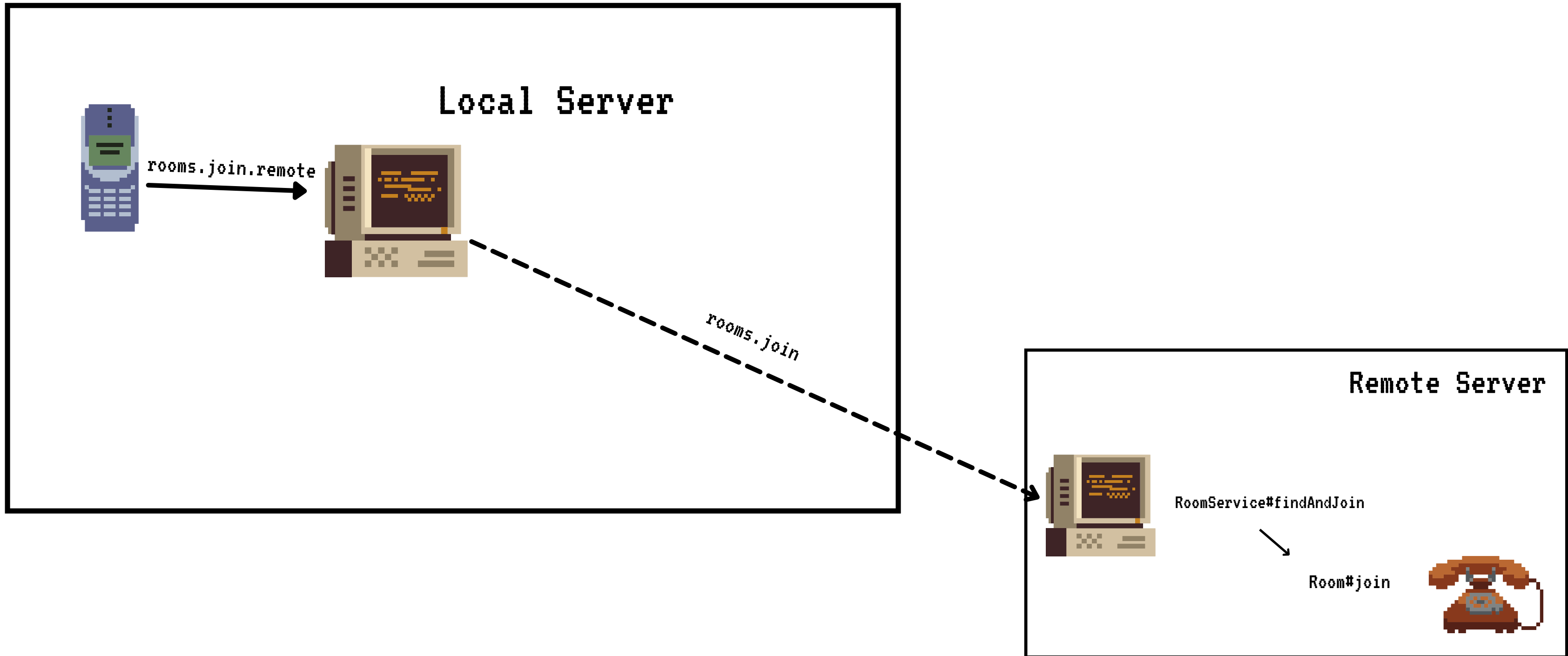
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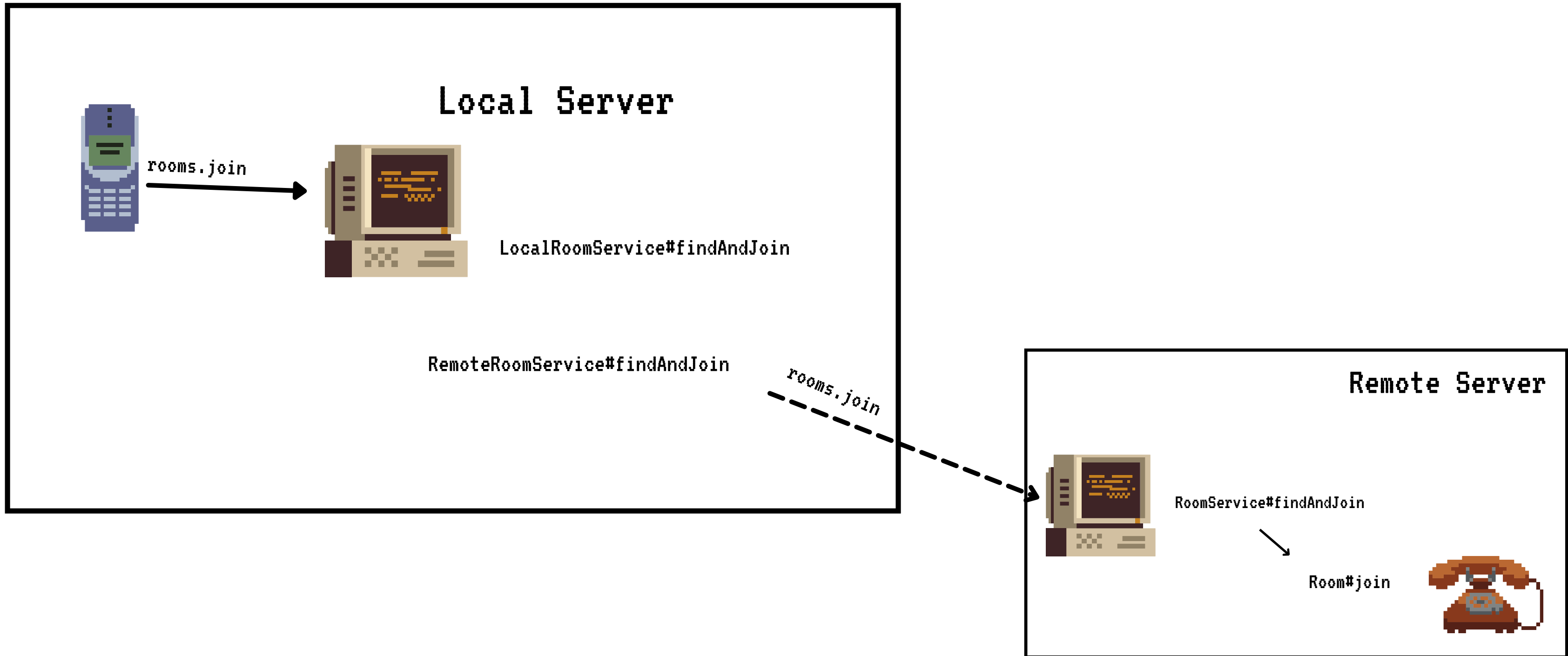
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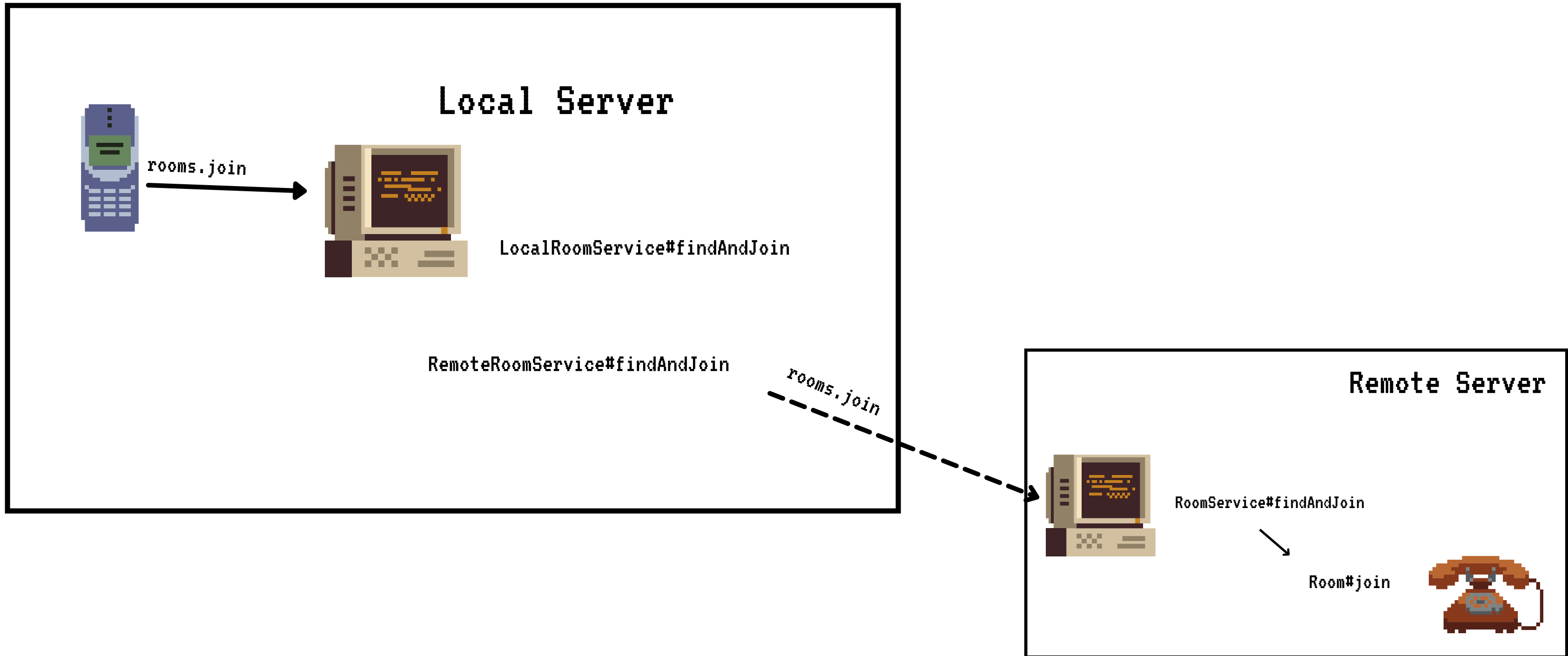
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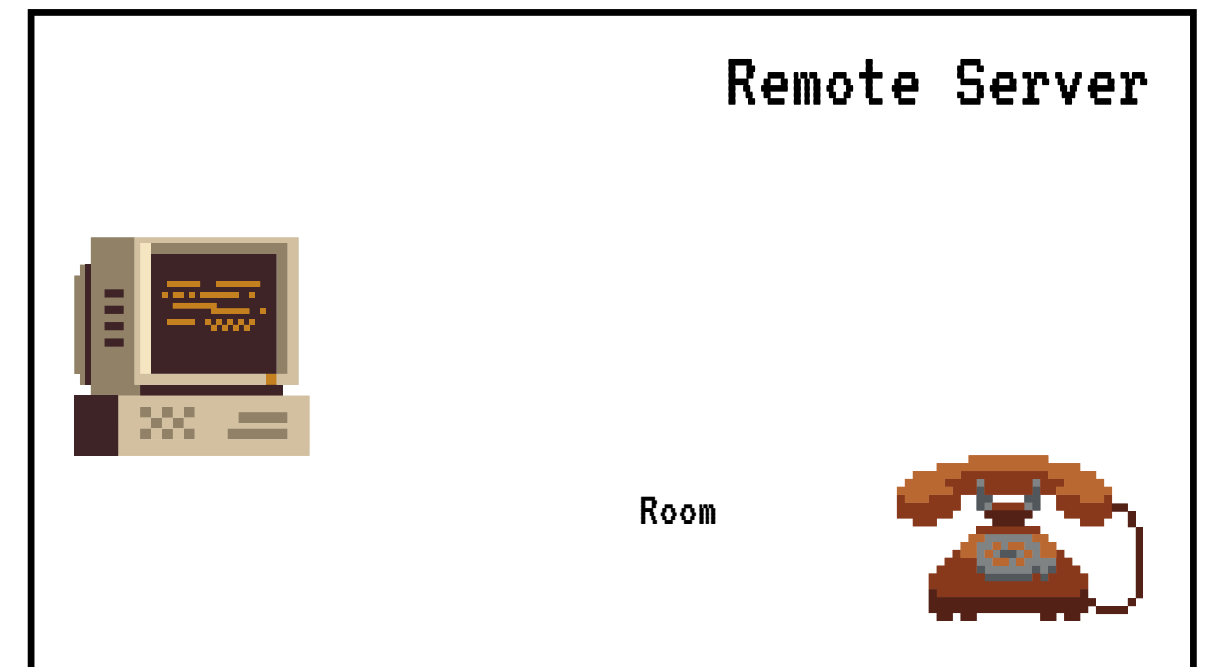
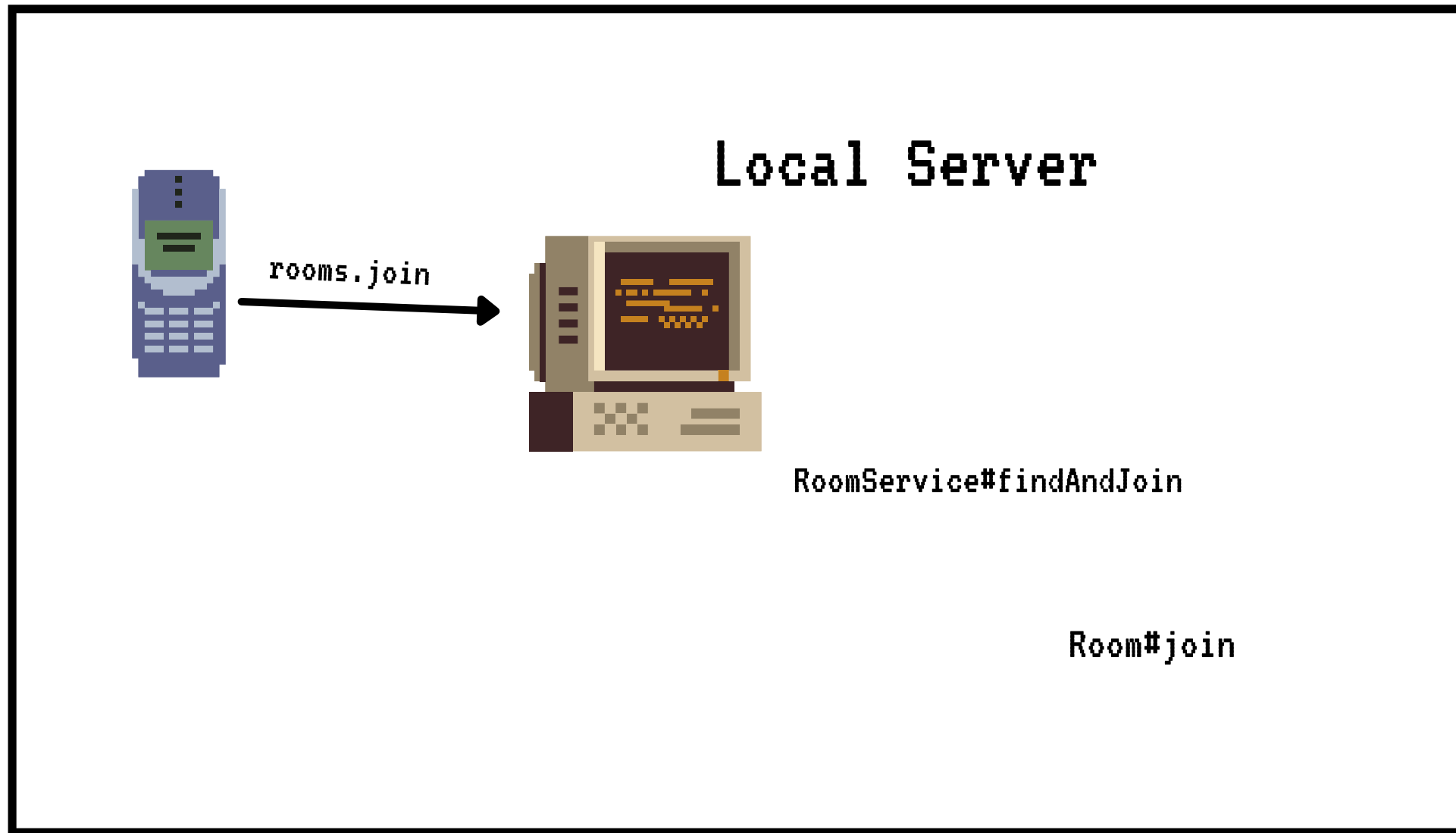
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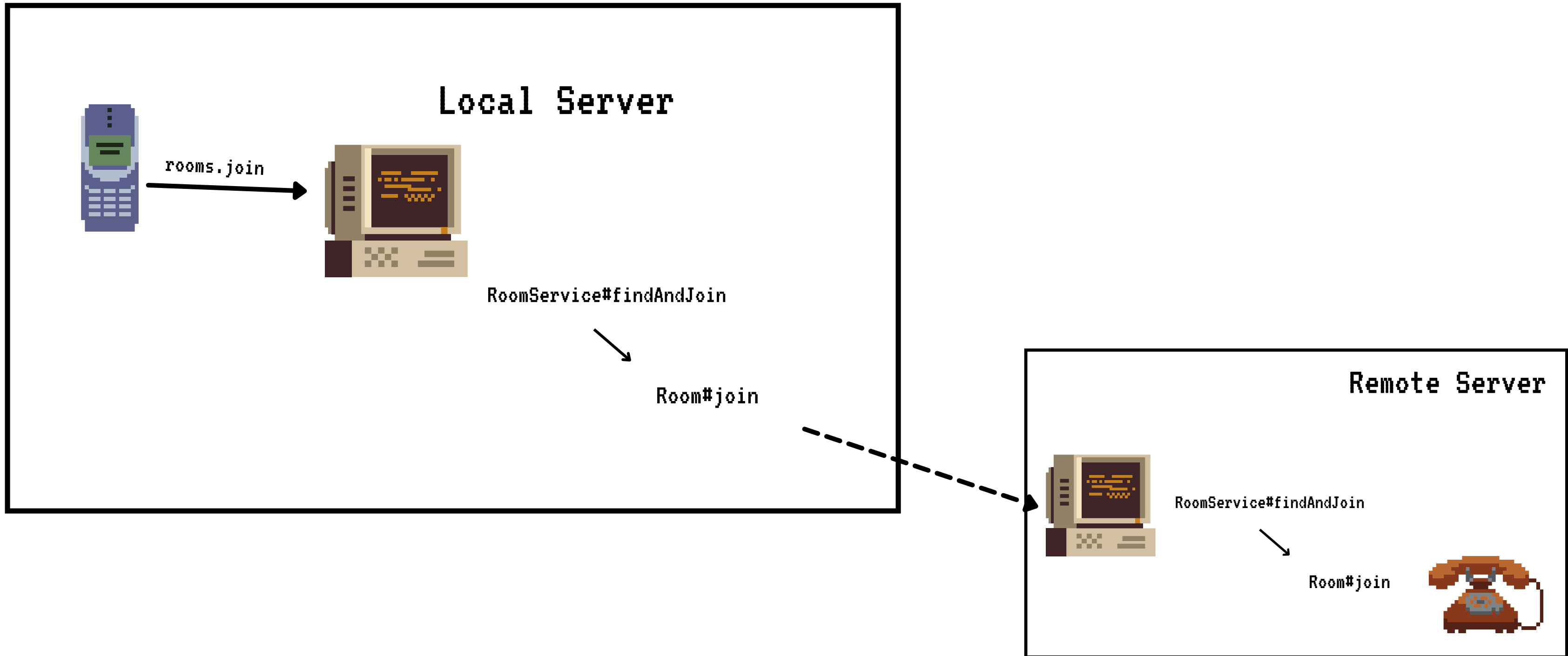
Architecture 2.0



Architecture 2.0



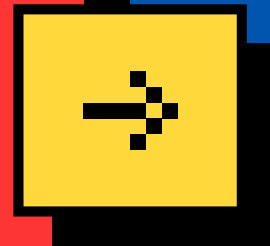
Architecture 2.0





LET'S CODE

We hope you'll learn more things about RSocket observability!





THANK YOU!

We hope you learned a lot of new things!

