



# WhatsApp Works?



Powered by Enigma



# How Messaging "Used to Work"





"Merry Christmas"

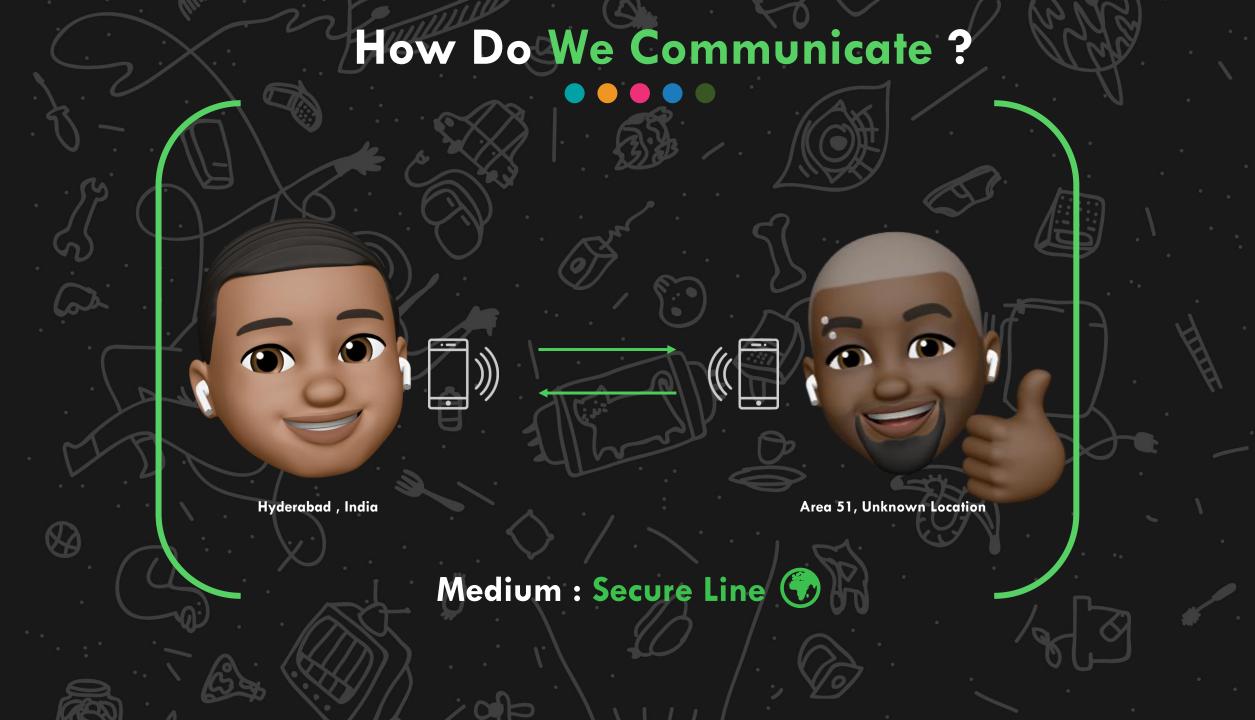
First text message by Vodafone [1992]

First Phone to support by NOKIA [1993]

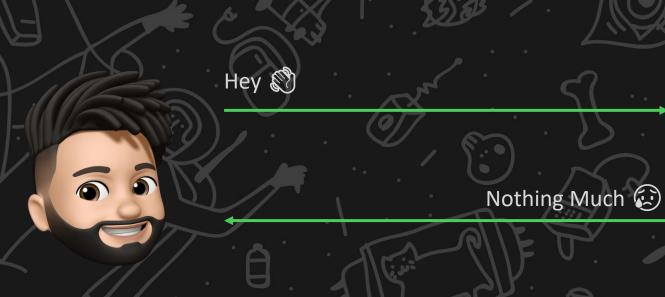
"Phone - 2 - Phone"

**Limited Text Service Per Month** [1994]

Rich Communication Service [2007]



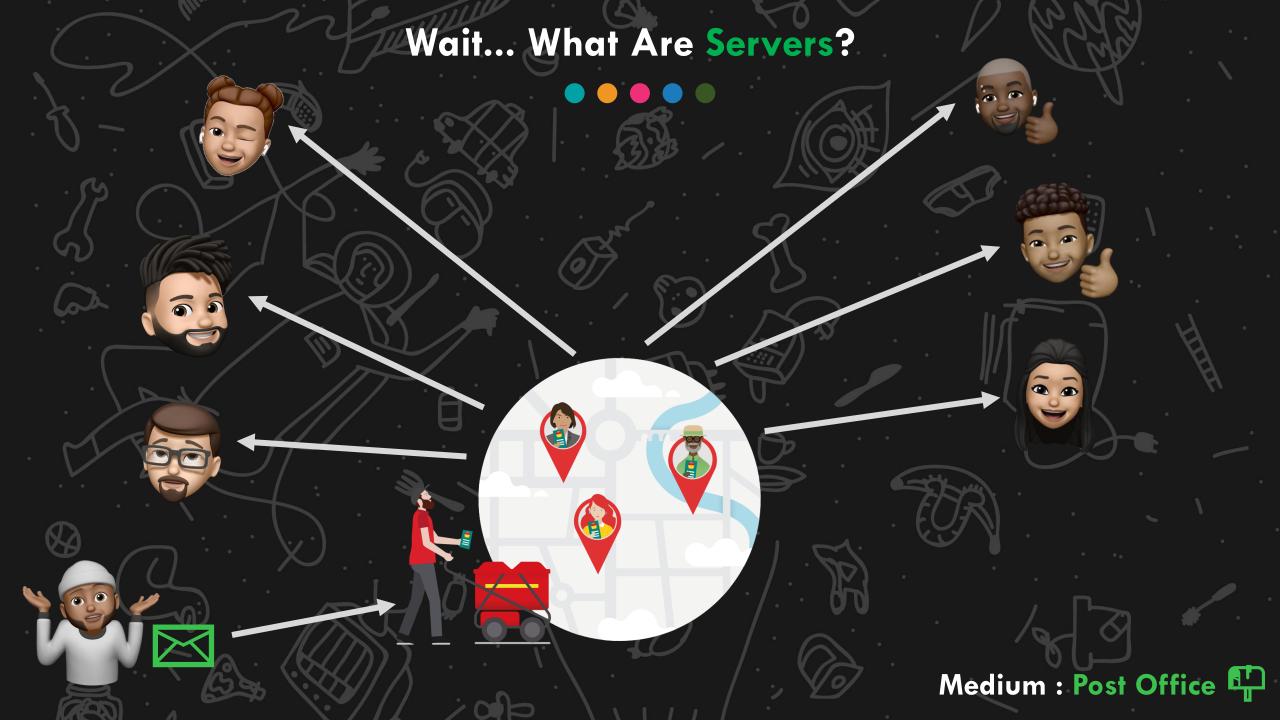
### How Text Communication Works?



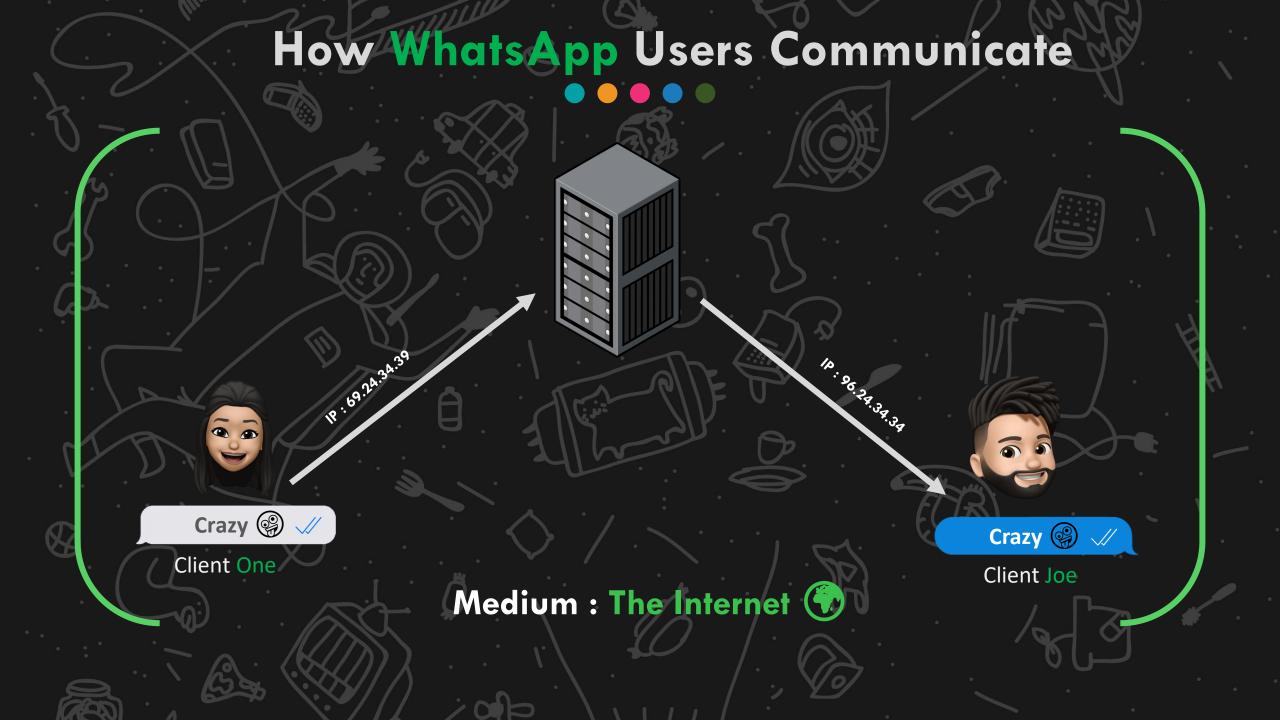
IP: 96.24.34.34

IP: 69.24.34.39

Medium: The Internet





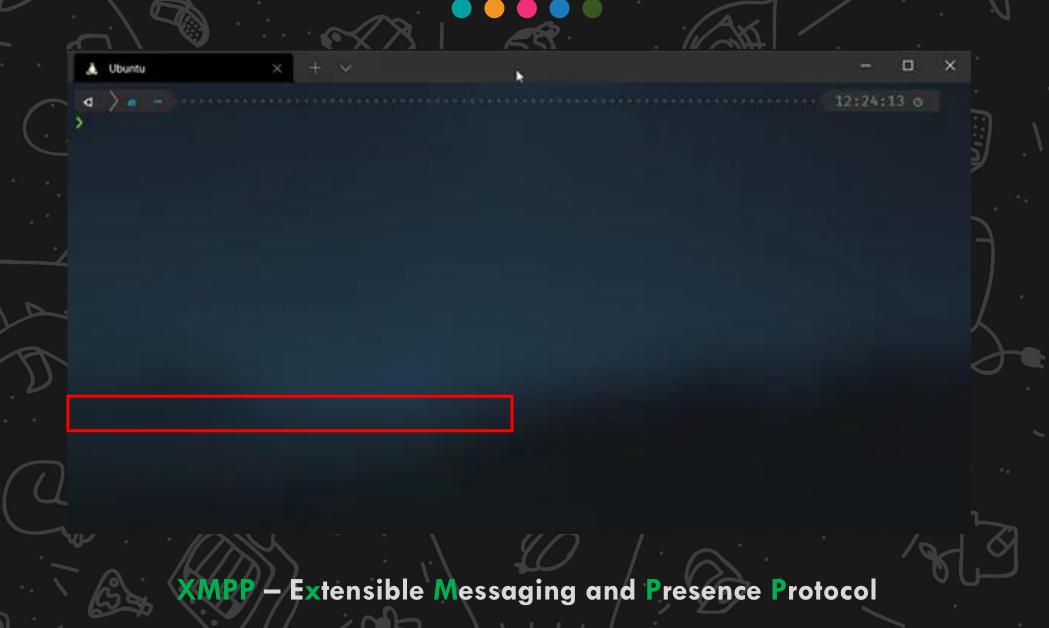


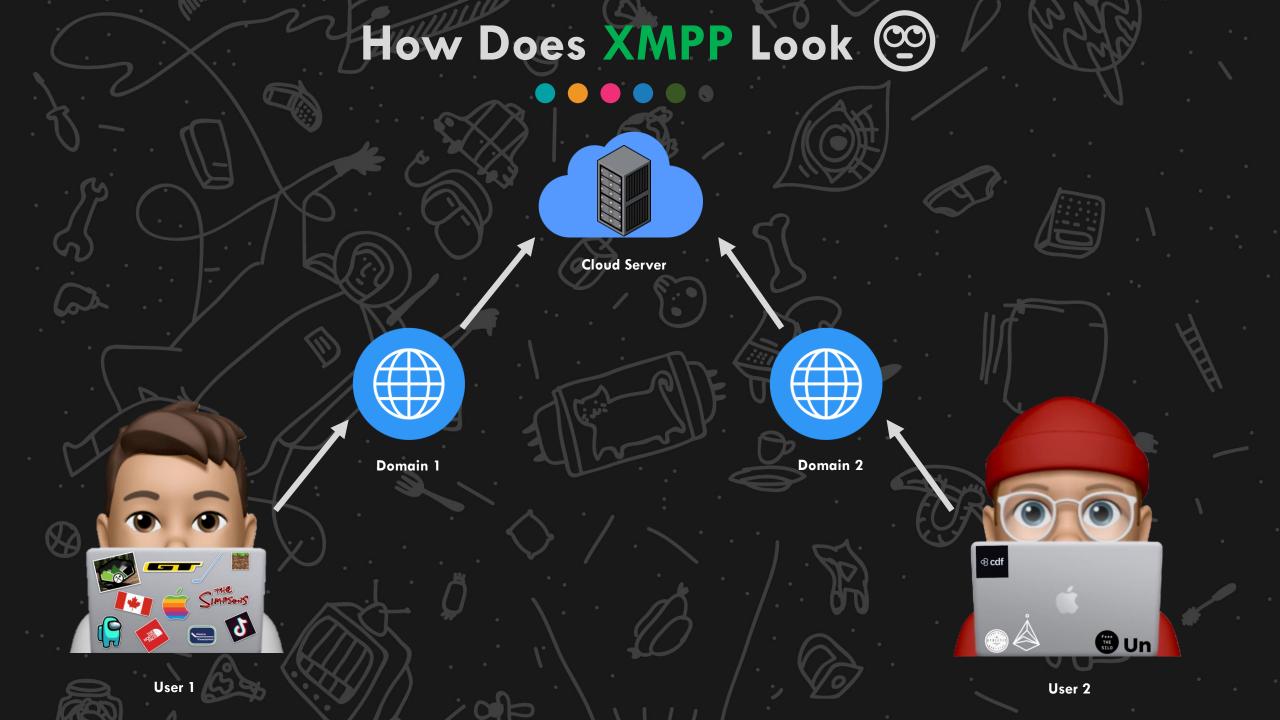
## What is a Protocol?



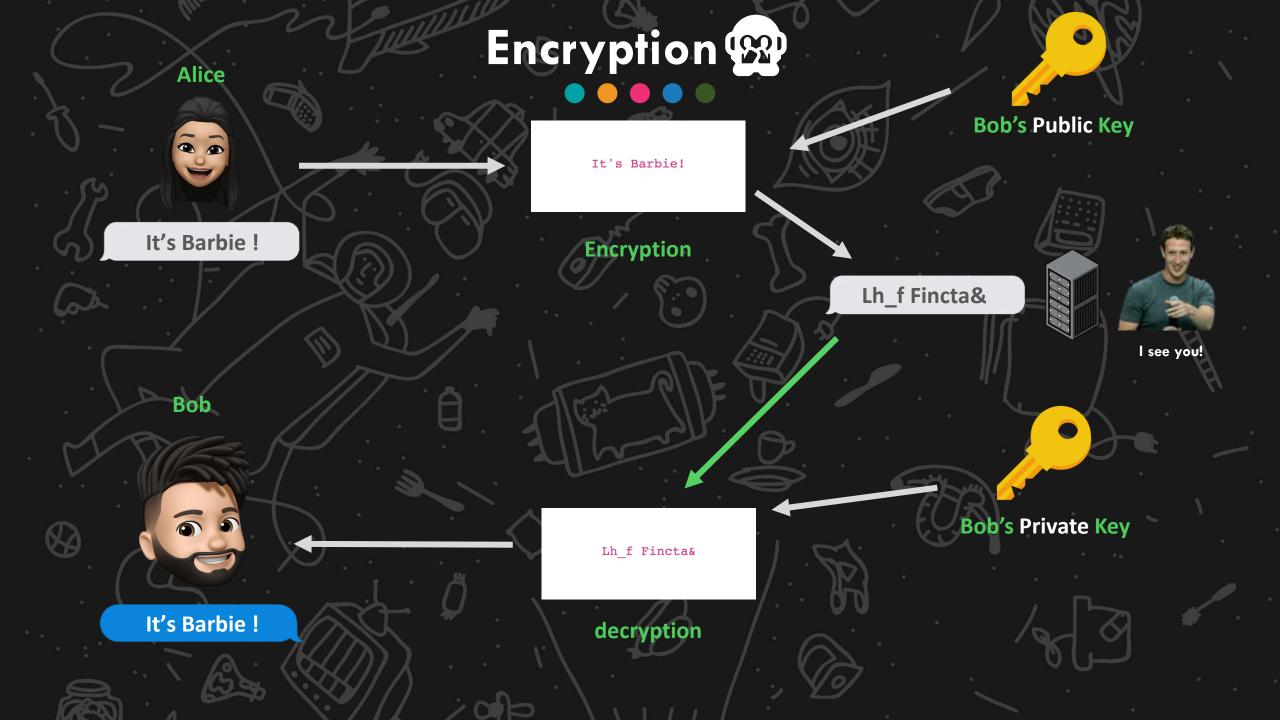
Handshake is a PROTOCOL

## Protocol behind WhatsApp





# What is being Safe? That's Encryption!











#### "PRIVACY"

Privacy in instant messaging is very important



### "TRUST ISSUES"

How much can we trust the middle-men

[Servers]

### "Open-Source?"

Since we know what's running on client and server side [Source Code]

### "Signal"

if you have Trust Issues
[Open Source]





- https://medium.com/codingurukul/whatsapp-engineering-inside-1-1ef4845ff784
- https://www.geeksforgeeks.org/xmpp-protocol/
- https://youtu.be/NmM9HA2MQGI
- https://youtu.be/DXv1boalsDI
- https://youtu.be/OVN99SgBGkM
- https://youtu.be/5g0x2xv3aHU

