

ASKEY

ASCII VIDEO CHAT

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PROBLEM STATEMENT



Stable video calling can only be done under high bandwidth and latency internet connection — a service not available for many around the world.

CONNECTING THE WORLD

- Massive difference, talking to family overseas using video instead solely using voice
- Video calling is expensive and not everyone can have access to the resources necessary to utilize it

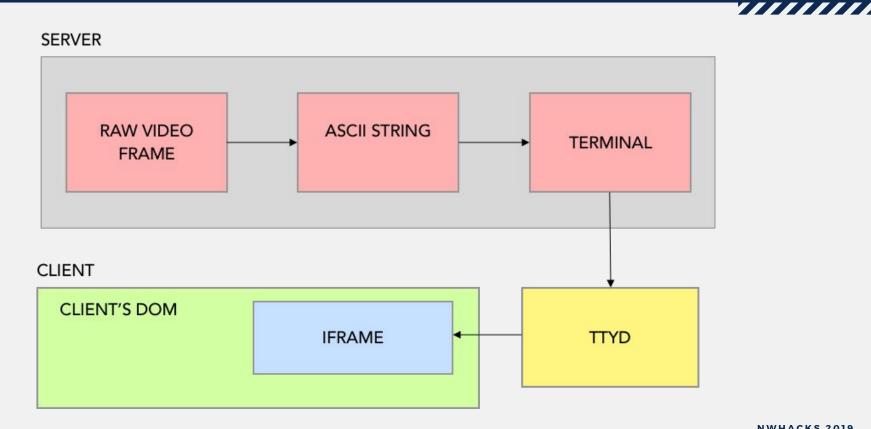
OUR SOLUTION

- Compress sequence of images to a more manageable format
- Preserve the key features of video calling including facial expressions and body gesture during compression

OUR IMPLEMENTATION

- Convert video frames to ASCII strings and use terminal on web to transfer this data
- Livestream audio utilizing FFmpeg library
- Incorporate the ASCII data to an accessible web application

HOW IT WORKS

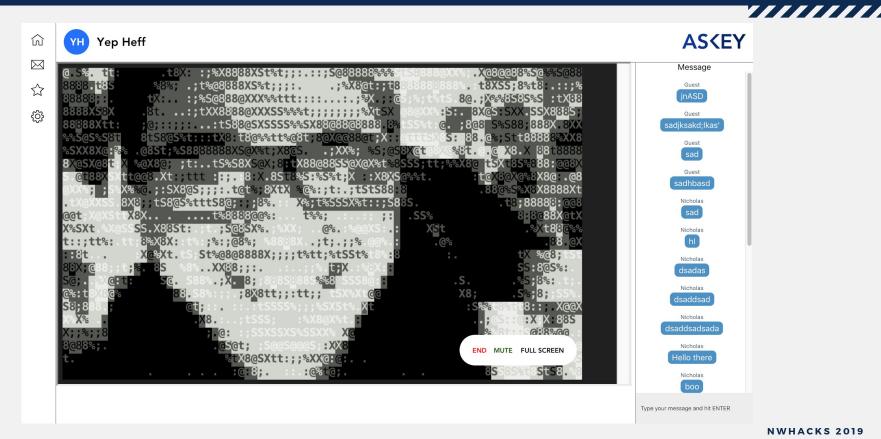


EFFICIENCY

~11 MB/s (480p RAW video) ~250 KB/s
ASKEY

1 minute of 480p RAW video streaming is equivalent to about 44 minutes of ASKEY video streaming

HOW IT LOOKS



THANK YOU NWHACKS!

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James Ali Valerian Nicholas