TEAMRGE EVENT 2024 WHERE FUTURE OF END USER COMPUTING MEETS REALITY

10+ community sessions around GPUs, VDI, DaaS, DEX, Remoting Protocols and AI



15th February 2024 16:00 CEST / 10:00AM EDT / 07:00AM PDT

Register Now

www.teamrge.com/events

This FREE community event is made possible with support of:











Dr. Benny Tritsch

Managing Director at

Dr. Tritsch IT Consulting

Joe DaSilva PMTS, Solutions Architect, Cloud Graphics at AMD



Johan van Amersfoort Technologist EUC & Al M at ITQ

Bram Wolfs

Consultant at

Wolfs IT Solutions



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Principal Product Manager

for HDX Graphics & Seamless at Citrix

Magnar Johnson Manager | Solution Architect Sopra Steria



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Ruben Spruijt Field CTO at Dizzion



Ryan Ververs-Bijkerk Technical Evangelist at GO-INIT



Shawn Bass
Start-up advisor and
former EUC CTO of Desktop
Technologies at VMware



Thomas Poppelgaard Independent Consultant and Technology Evangelist at Poppelgaard.com





Unravelling the user experience puzzle

Eltjo van Gulik & Ryan Ververs-Bijkerk





www.go-euc.com

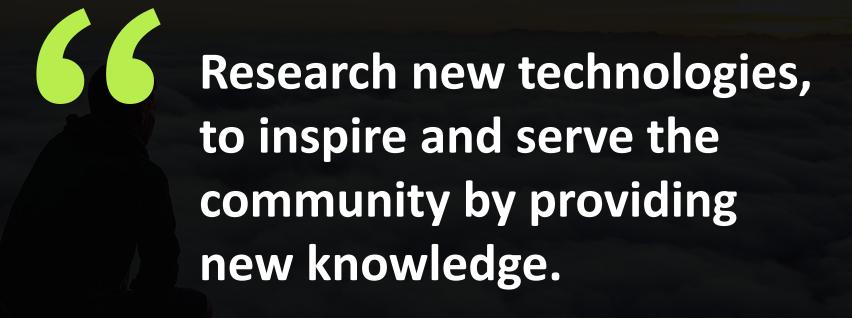
VEXPERT

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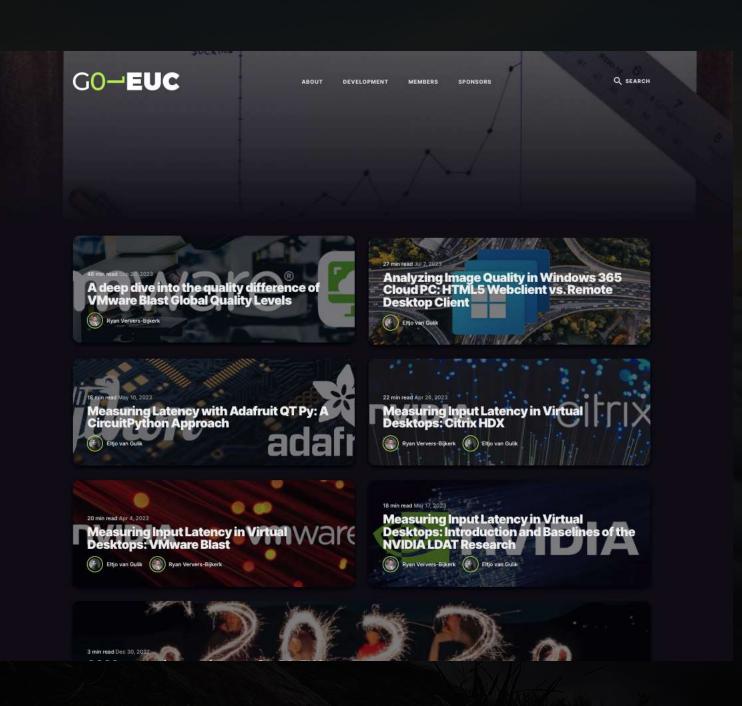


GO-EUC

Doing research is creating new knowledge







The **overall experience** of a person using a product such as a website or computer application, especially in terms of how **easy** or **pleasing** it is to use.



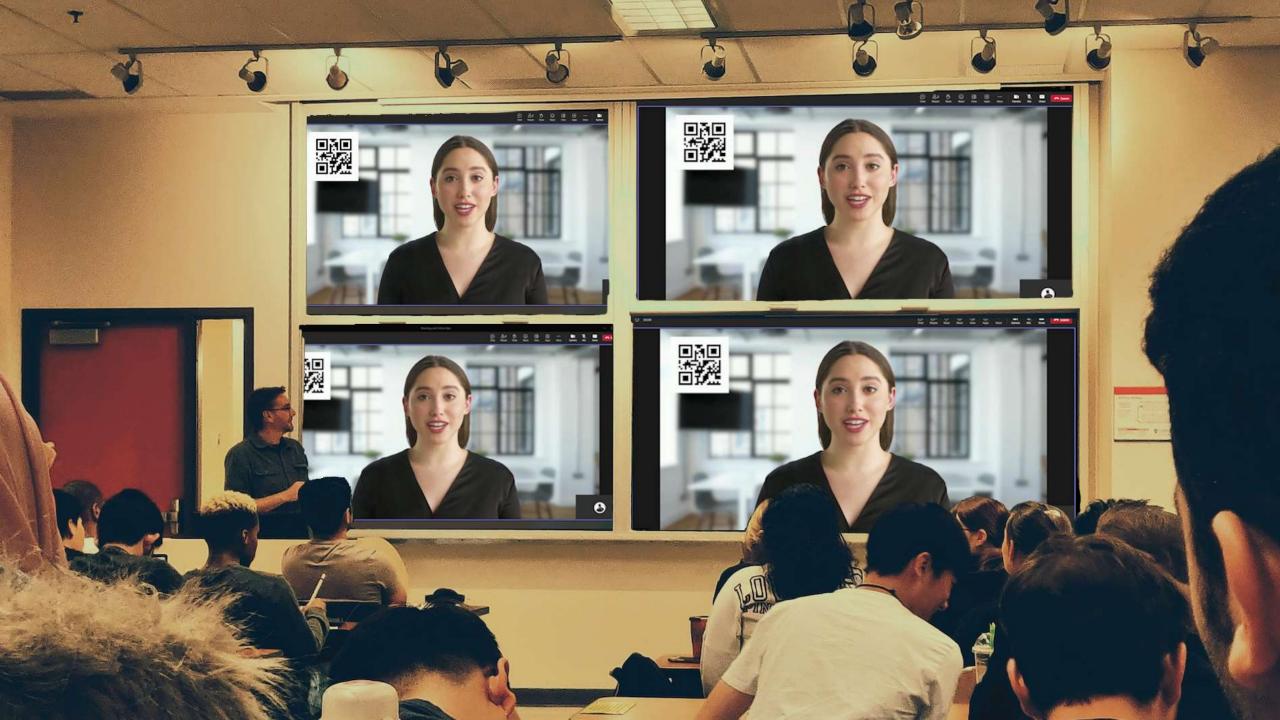




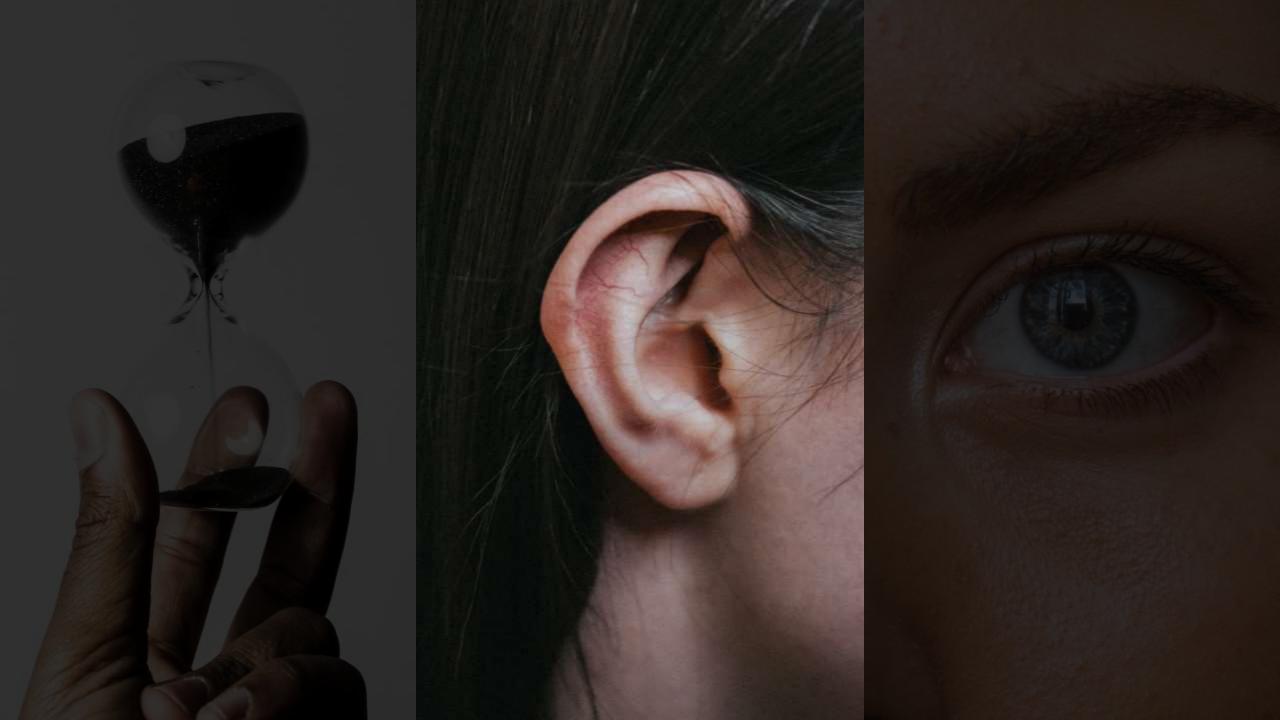




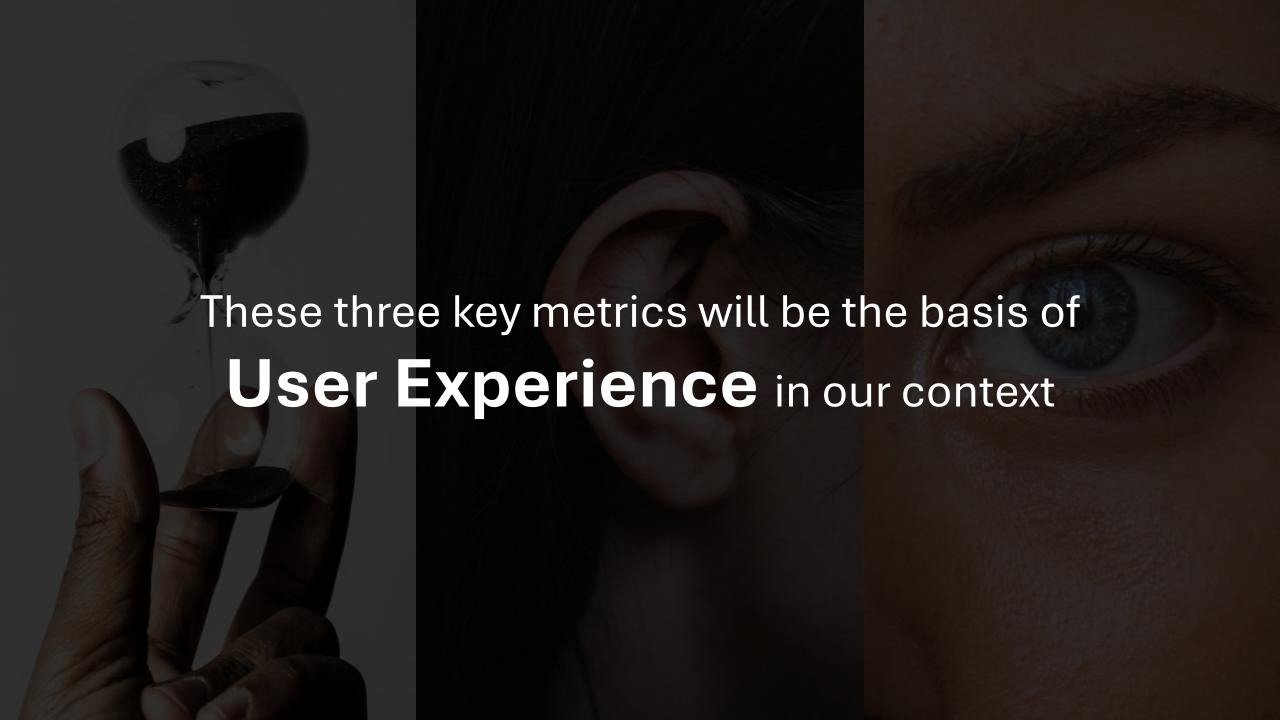








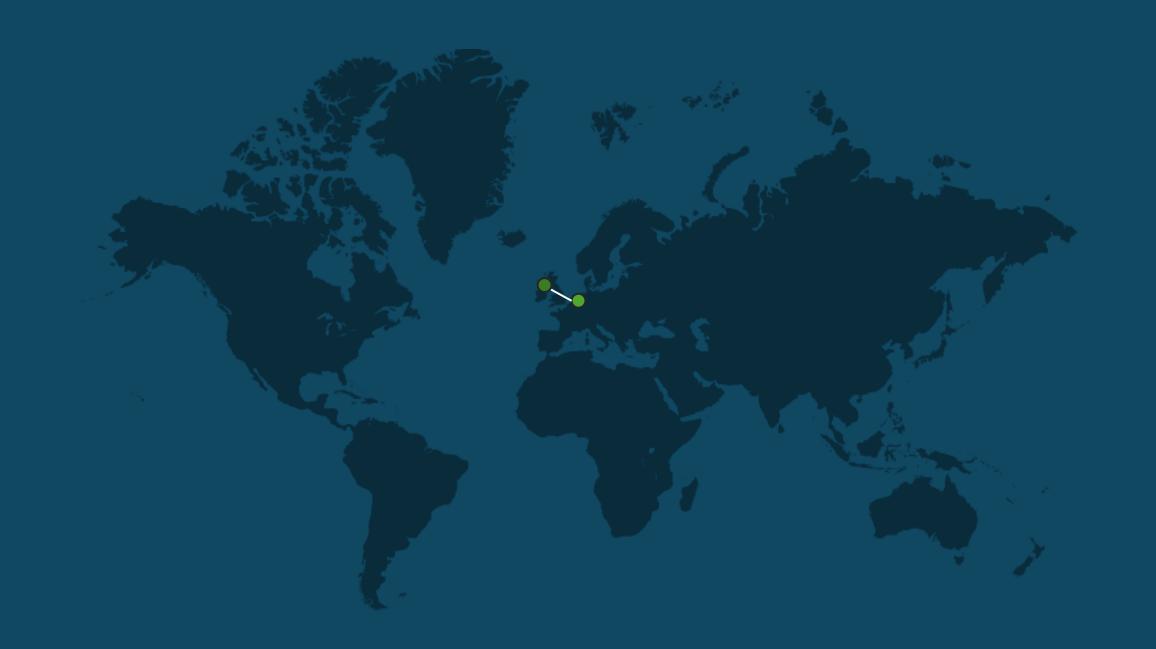




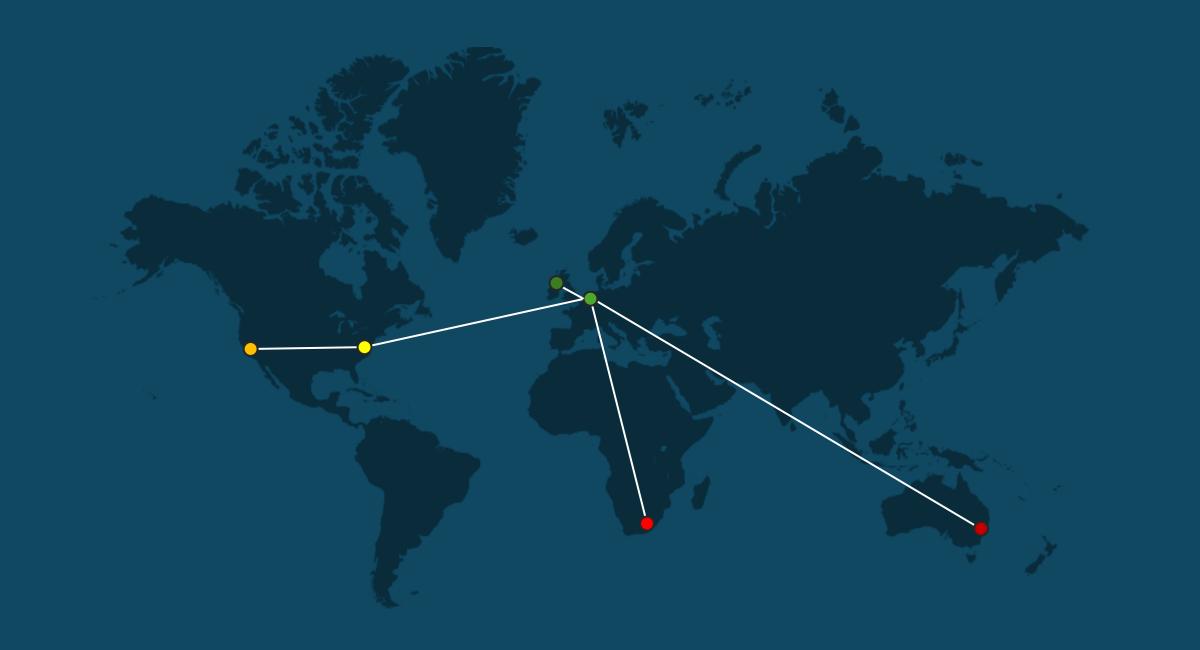


Latency refers to the time delay that occurs in a system when data or a signal is transmitted from one point to another.

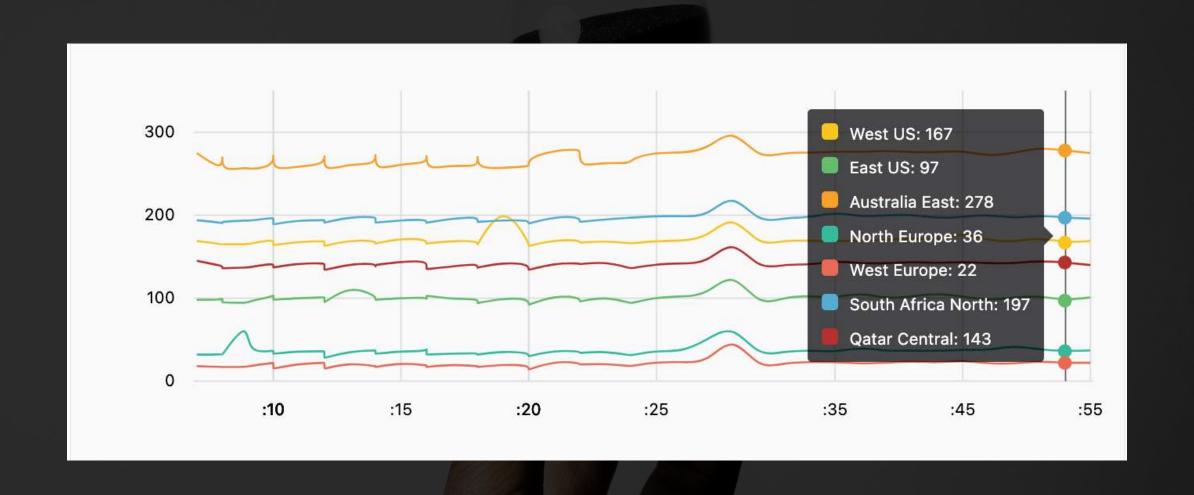












Latency is workload dependant

100-300 ms



50-100 ms



100 ms



0.001 ms

















MOUSE

CPU

RENDER QUEUE

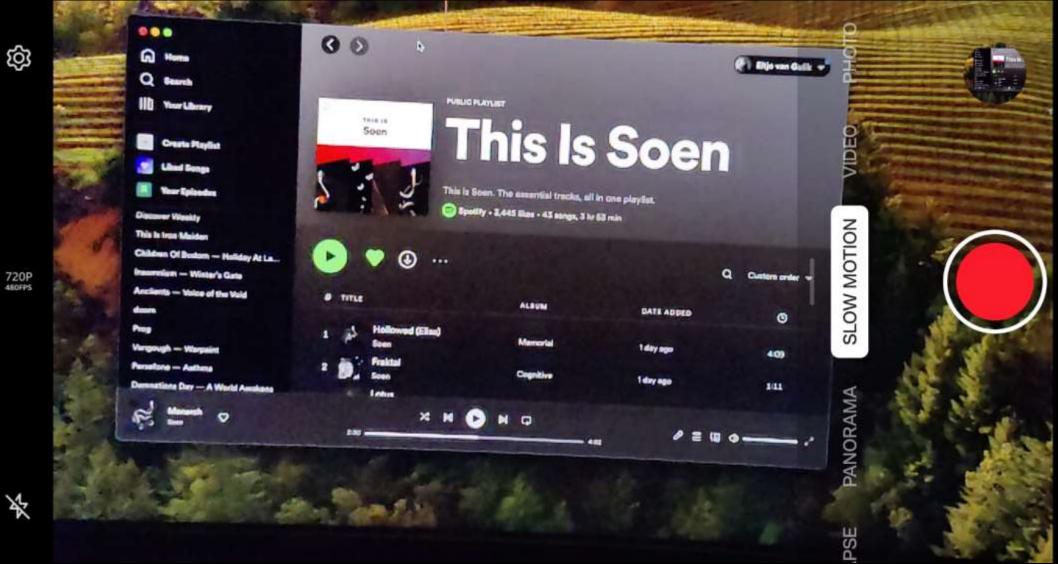
DISPLAY

INTERNET

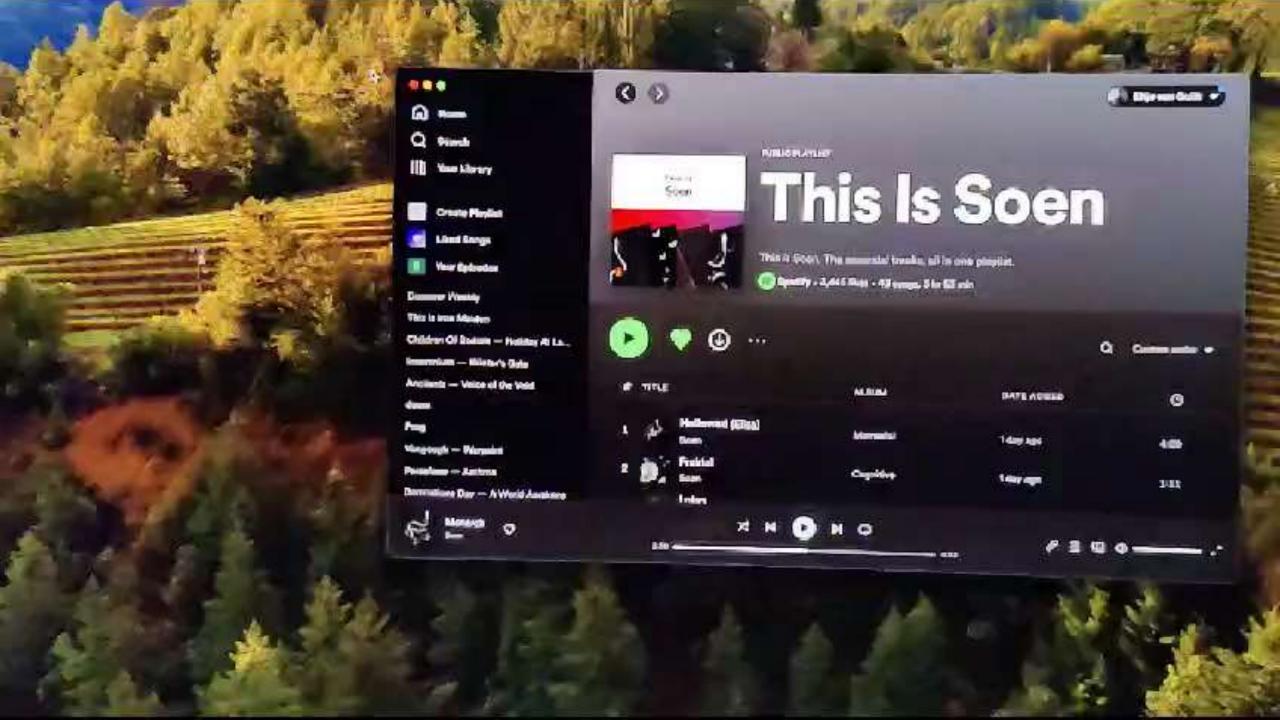
REMOTE

Time



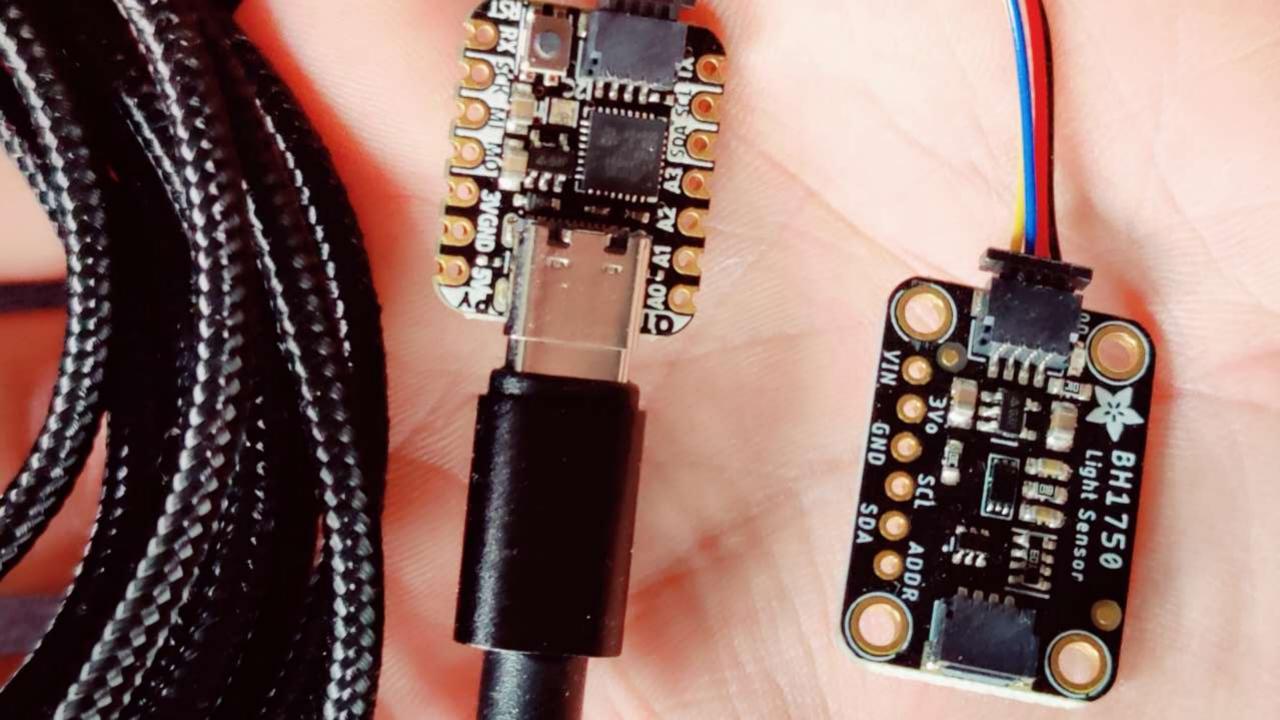


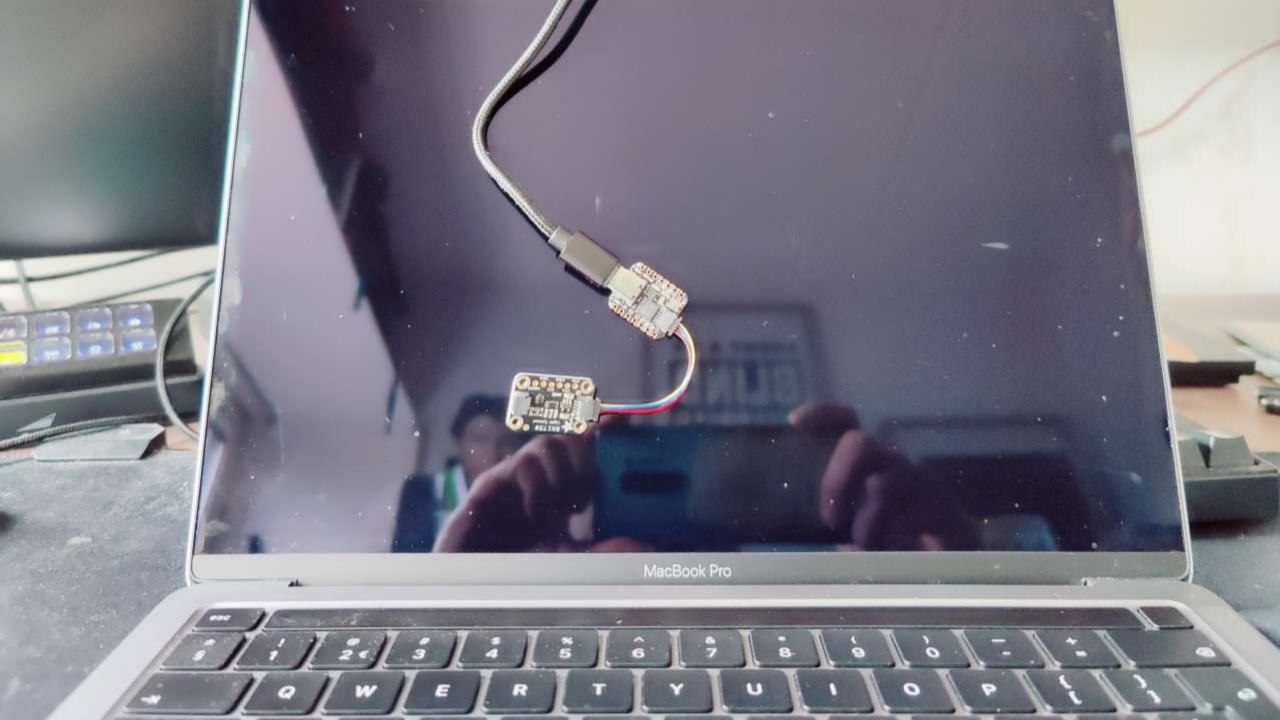










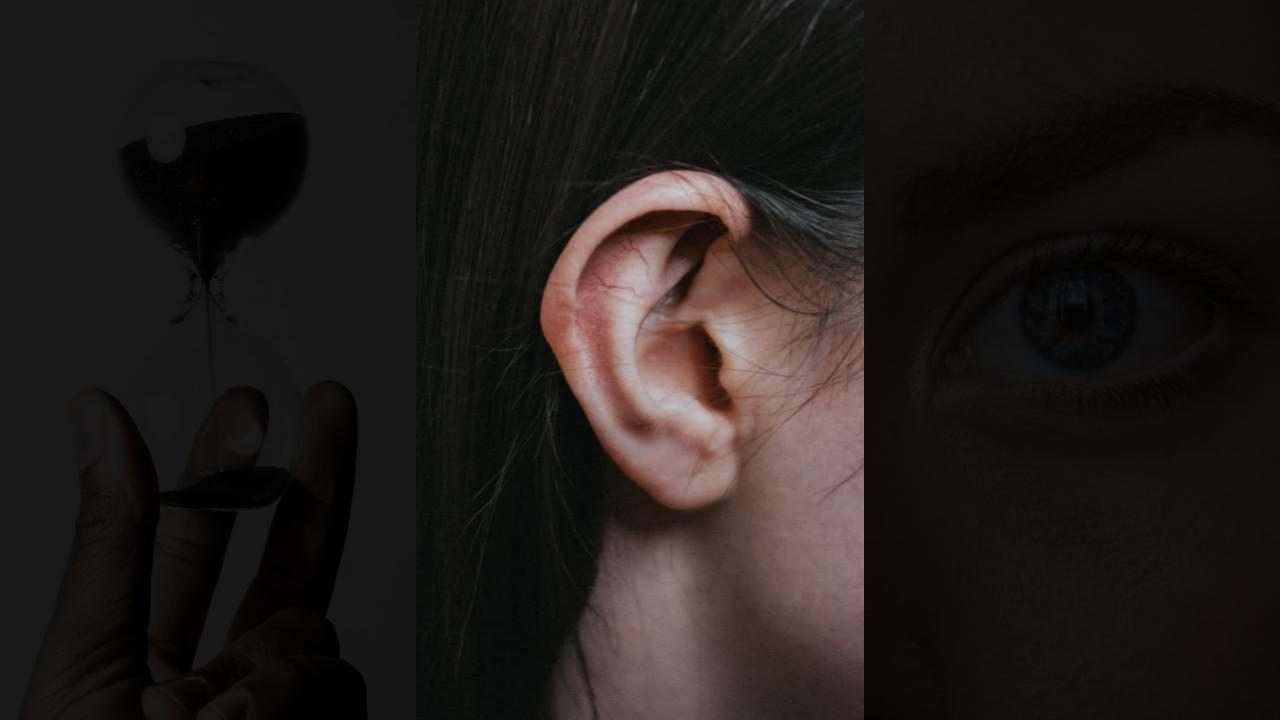






Comparison Click to Photon in ms





Audio refers to the representation, transmission, or reproduction of sound through electrical, digital, or analog signals. It encompasses the capture, storage, processing, and playback of **SOUND** Waves, which are variations in air pressure that the human ear can perceive as sound.

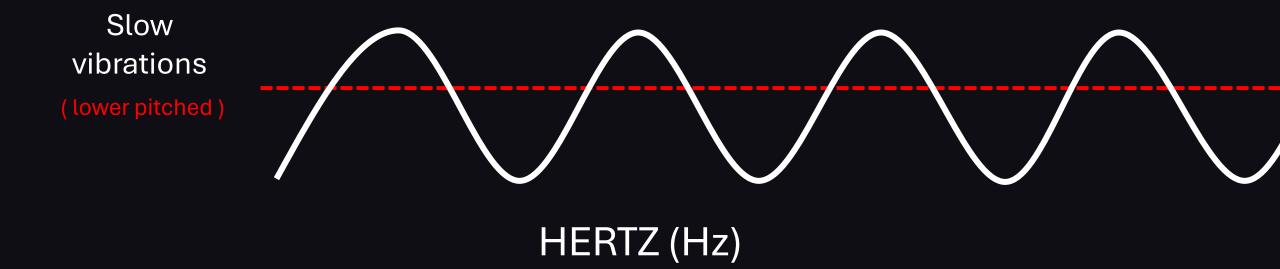
Slow vibrations

(lower pitched)

HERTZ (Hz)

Rapid vibrations

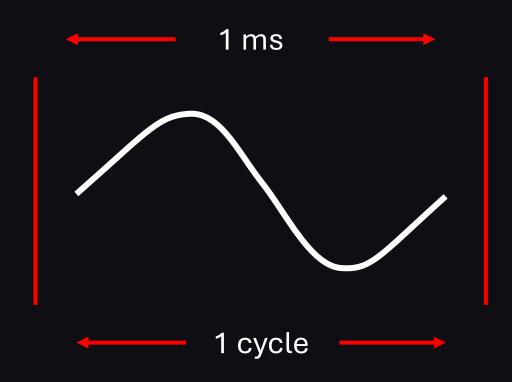
(higher pitched)



Rapid vibrations

(higher pitched)

HERTZ (Hz)



1000 Hz tone



In a few moments a tone will begin playing.

Listen to the tone and press pause as soon as you can no longer hear it.



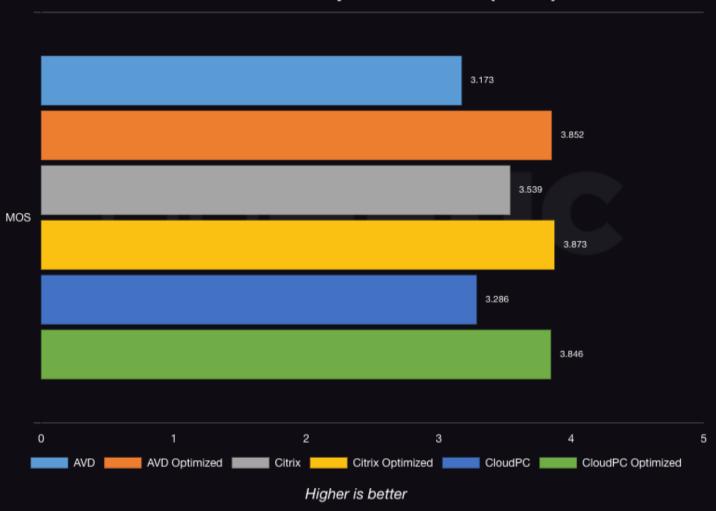


GO-EUC



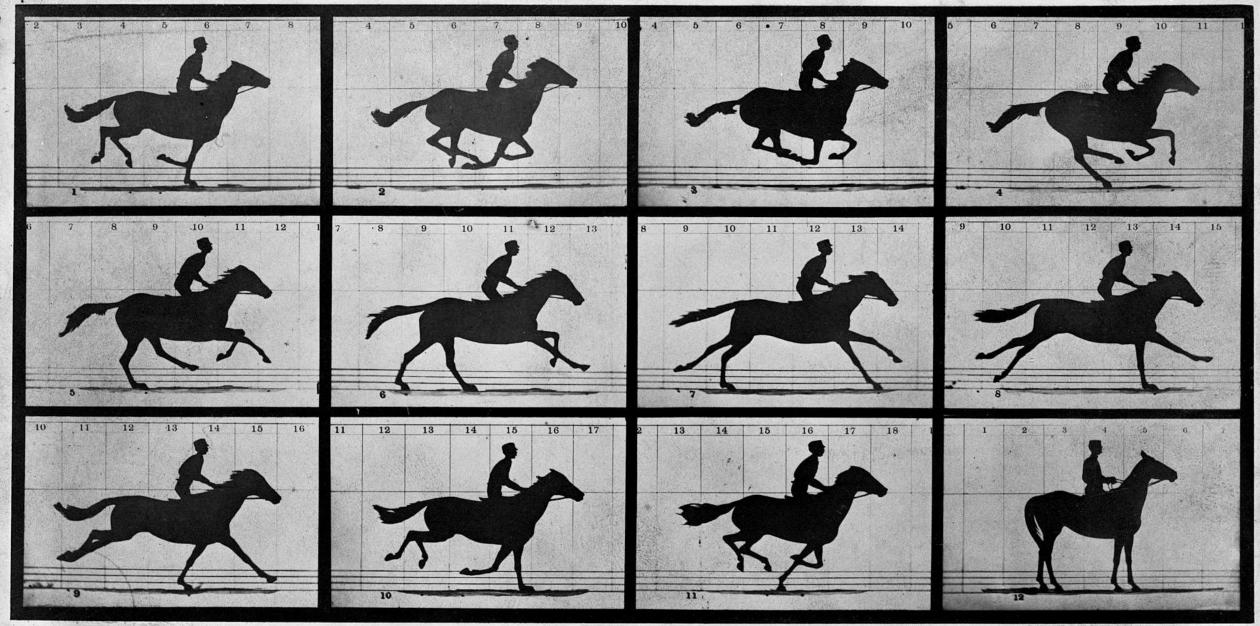
Virtual Speech Quality Objective Listener

VisQOL Mean Opinion Score (MOS)



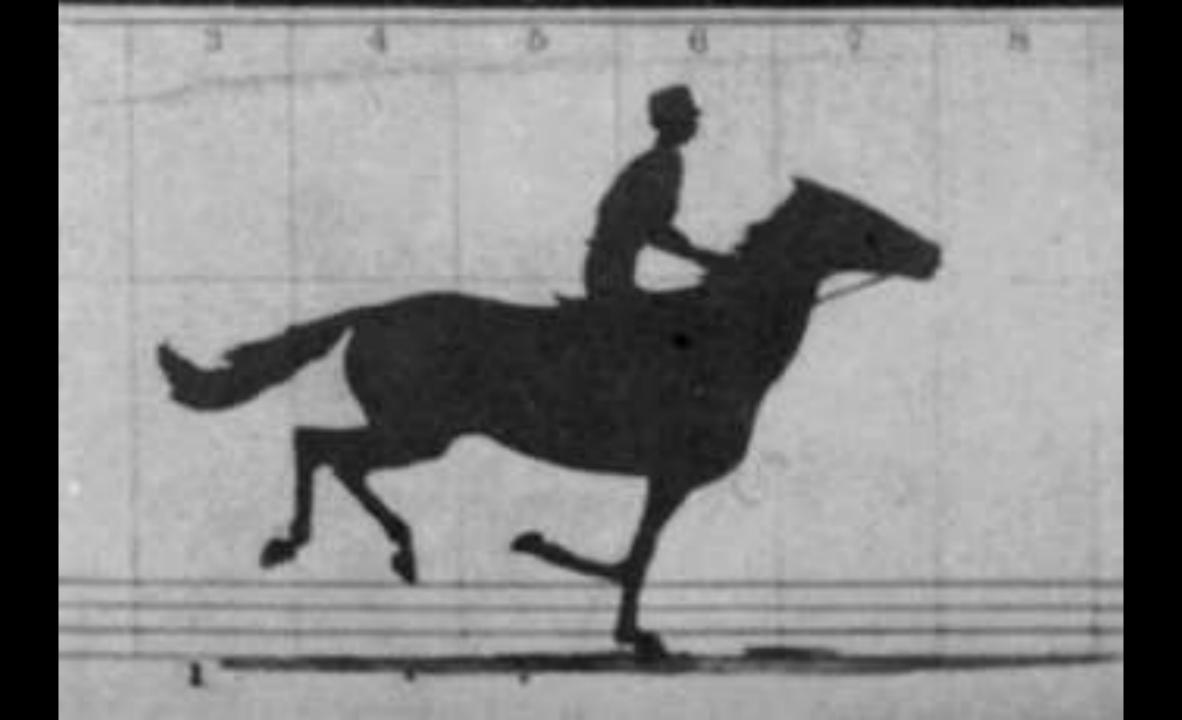




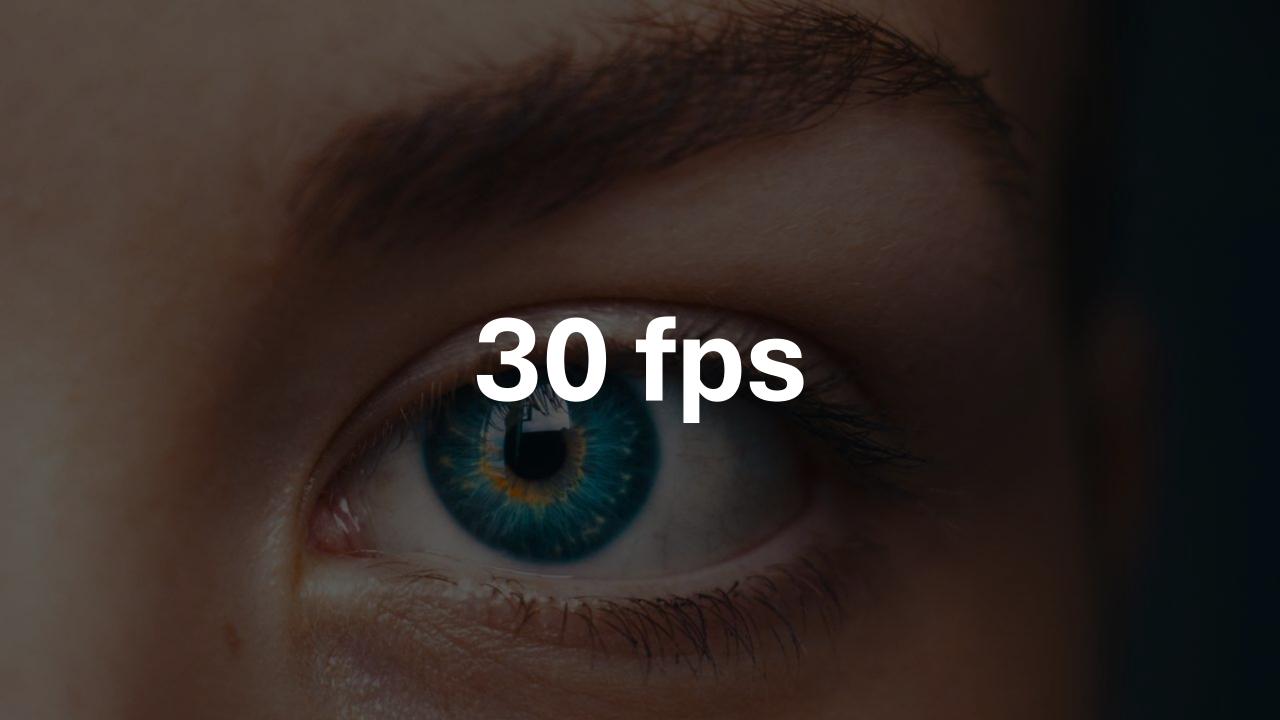


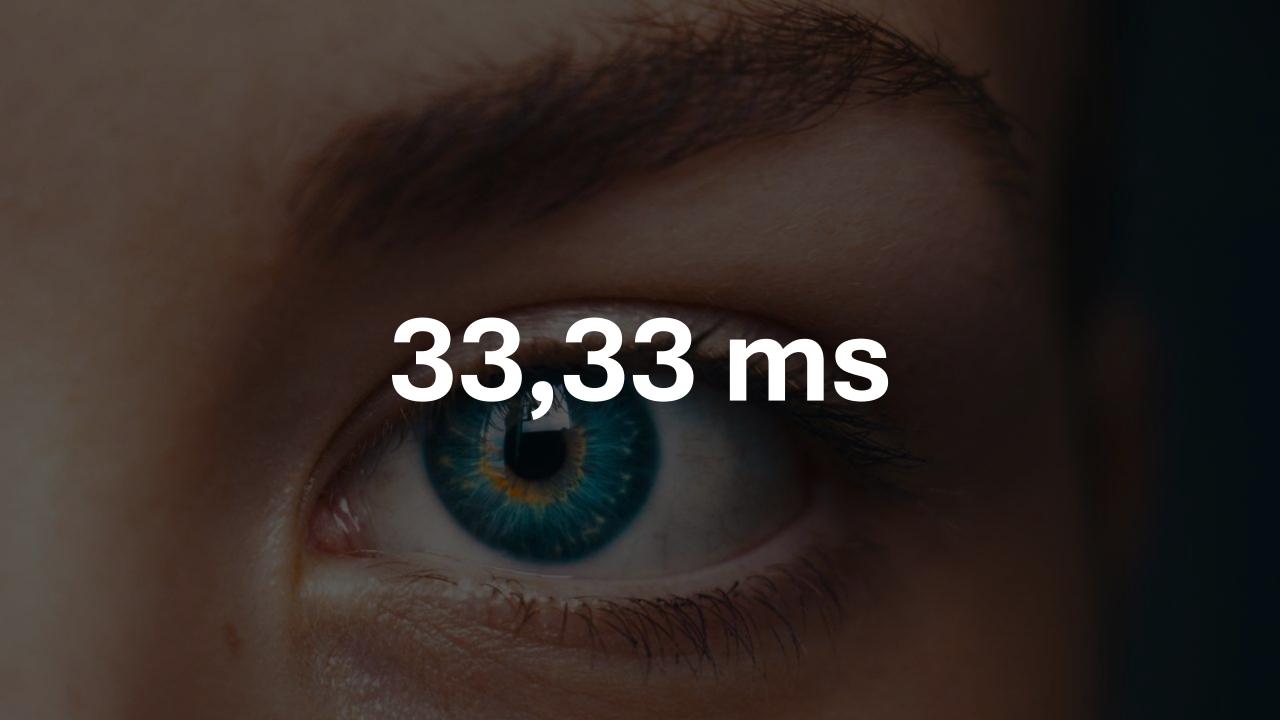
Copyright, 1878, by MUYBRIDGE.

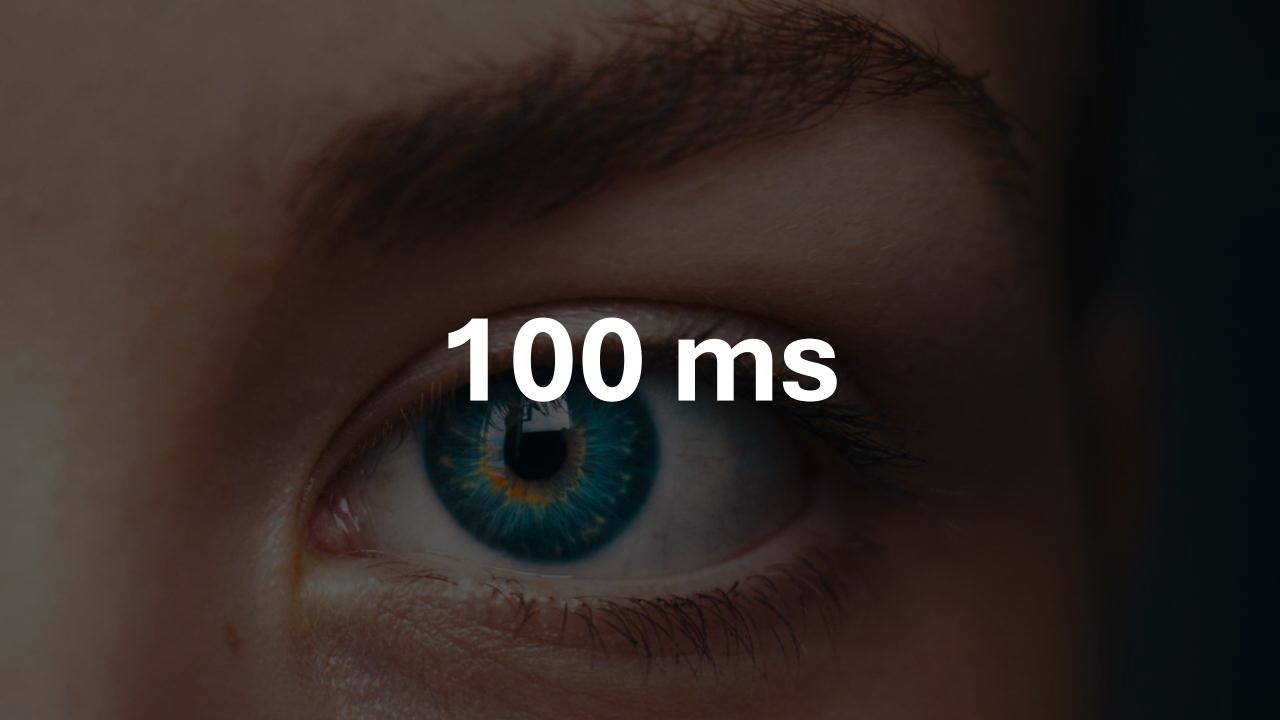
MORSE'S Gallery, 417 Montgomery St., San Francisco.

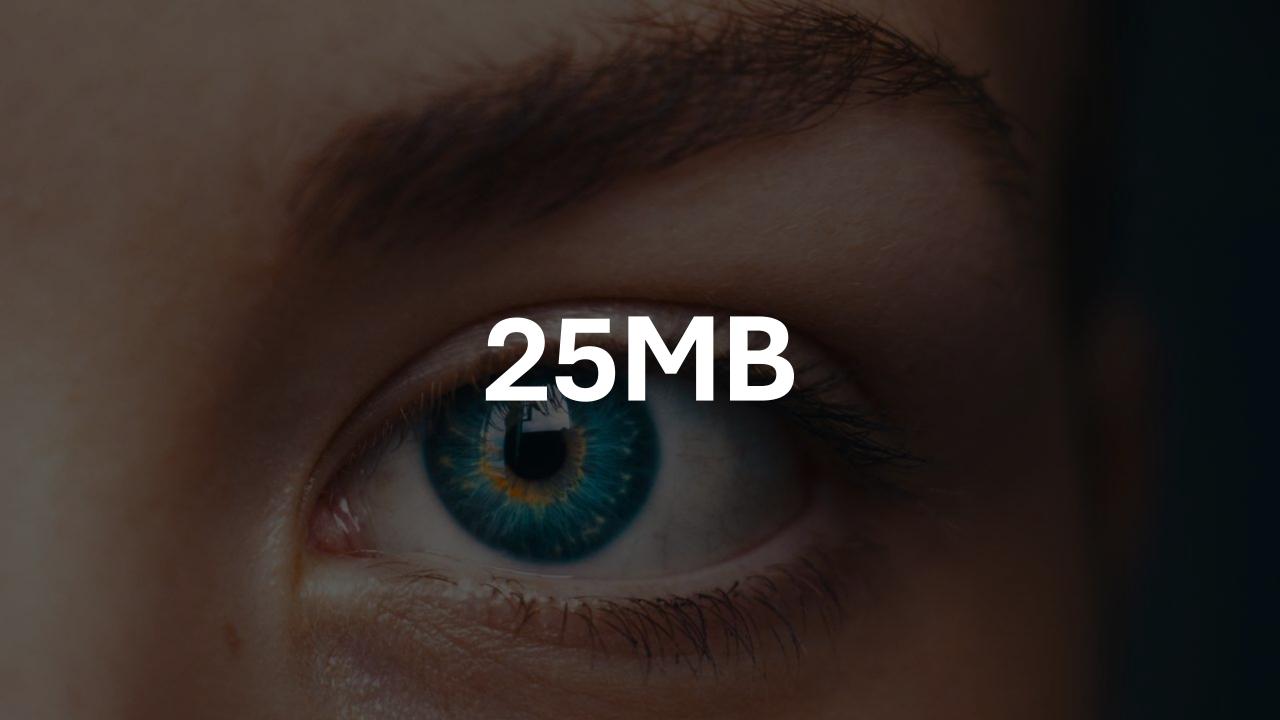






























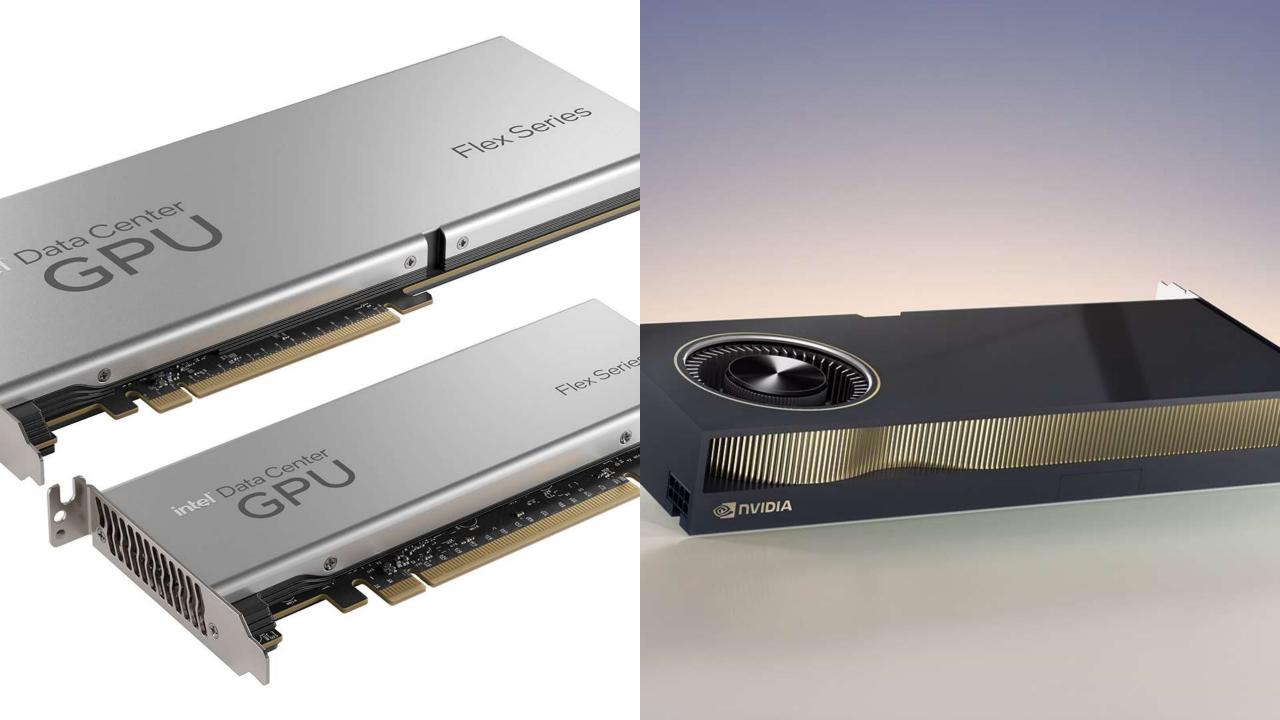


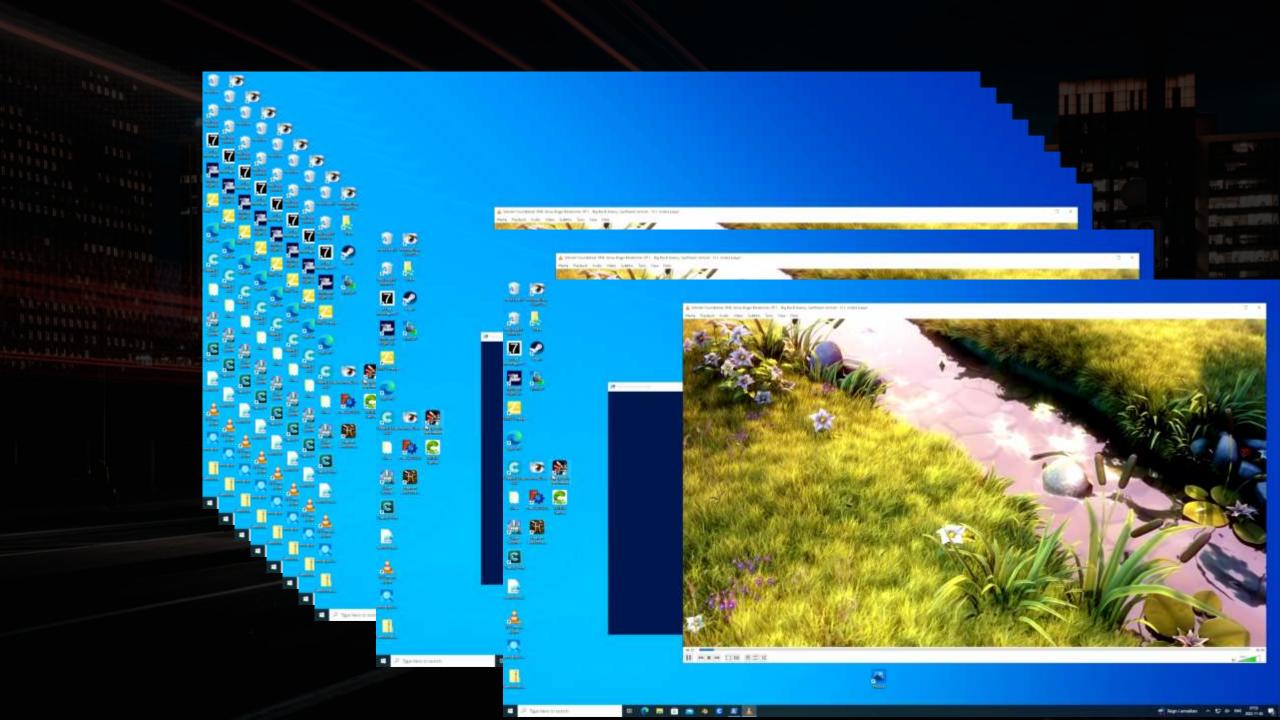
Video codecs are used to reduce the bandwidth and size of moving images











The DCT for a sequence of N numbers x(n), for $n=0,1,\ldots,N-1$ is given by:

$$X(k) = lpha(k) \sum_{n=0}^{N-1} x(n) \cos \left(rac{\pi(2n+1)k}{2N}
ight)$$

Where:

$$lpha(k) = egin{cases} \sqrt{rac{1}{N}} & ext{if } k = 0 \ \sqrt{rac{2}{N}} & ext{otherwise} \end{cases}$$

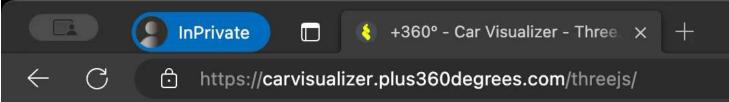
Given a source with a set of symbols $S=\{s_1,s_2,\ldots,s_n\}$ and a corresponding set of probabilities $P=\{p_1,p_2,\ldots,p_n\}$, where p_i is the probability of symbol s_i , the entropy H is defined as:

$$H(S) = -\sum_{i=1}^n p_i \log_2(p_i)$$

InPrivate □ (1) +360° - Car Visualizer - × +

← □ Inttps://carvisualizer.plus360degrees.com/ll reejs/

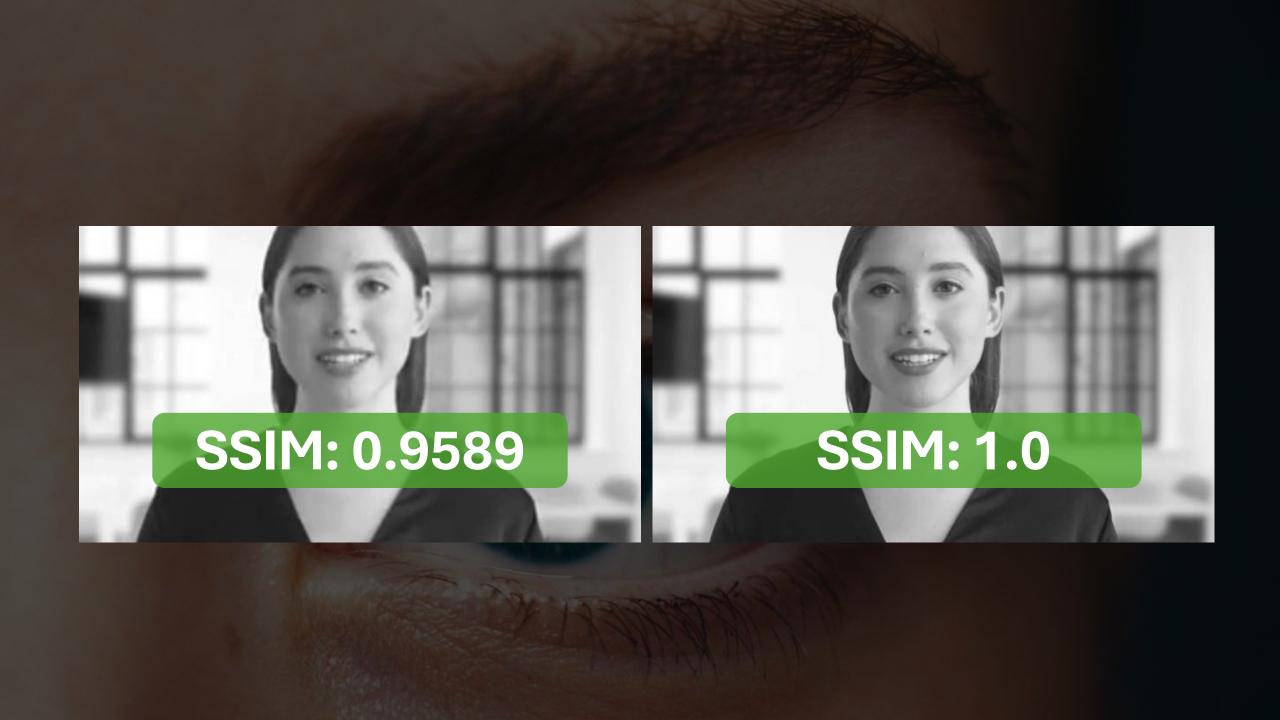
CAR VISUALIZER

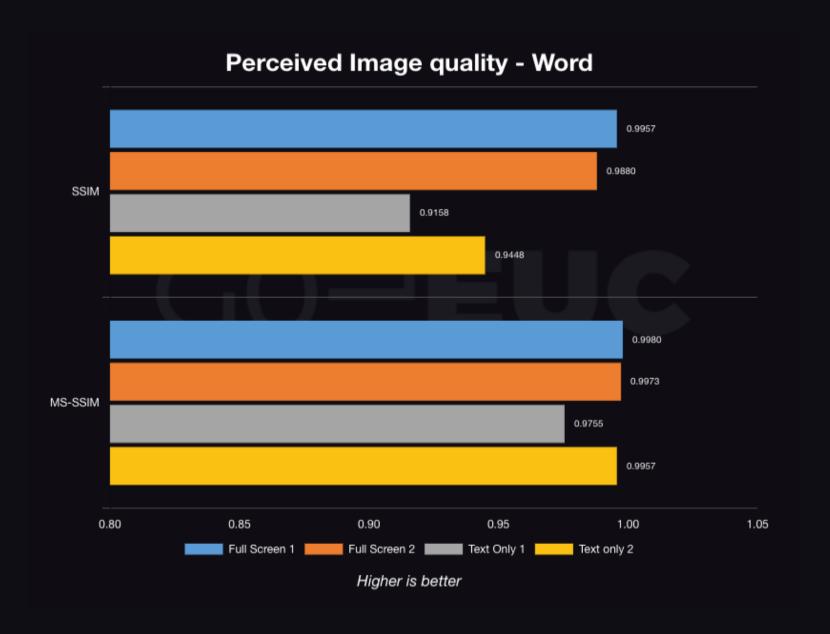


CAR VISUALIZER



SSIM is a metric used to measure the **similarity** between two images. SSIM provides **perceptual assessment** of image quality, often aligning better with **human visual judgment** compared to simple error summation methods.







Key takeaways

Understand the workload of the user

66 Tweak the protocol based on the workload

66 Reduce latency by select the correct datacenter

66 Consider content redirection to improve audio sync

Without data you're just a person with an opinion

W. Edwards Deming Data Scientist

