

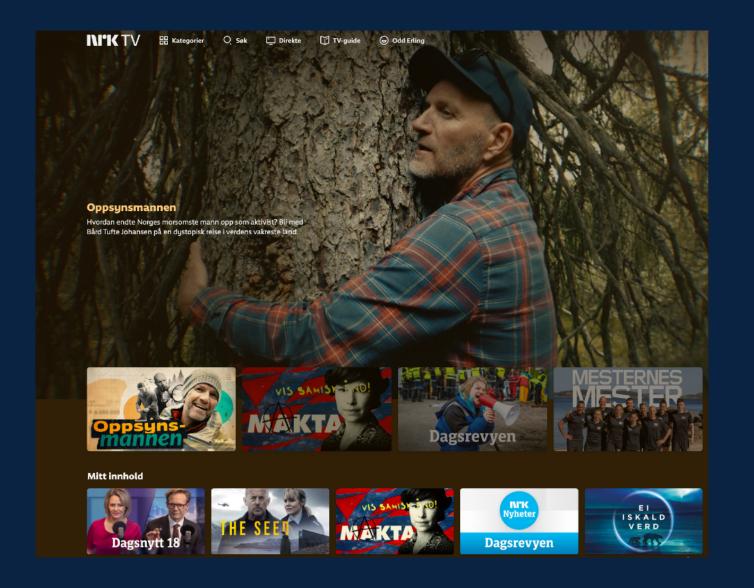
NRK's journey towards HDR

How we got there and what we learnt

Odd Erling Høgberg

Head of Video Equipment





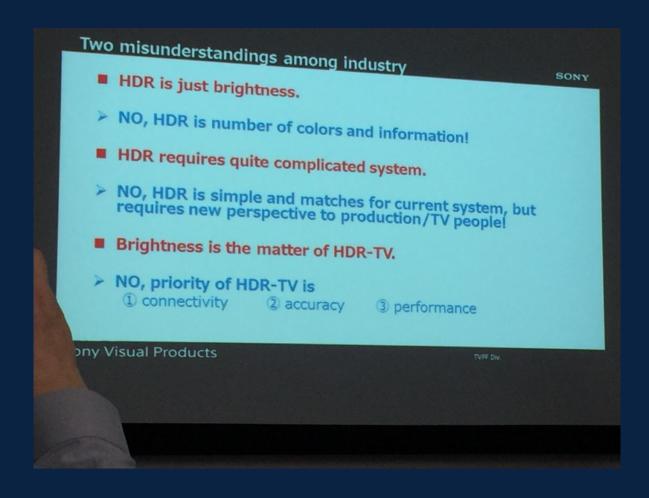


Snøfall 2: 1080p25 HDR HLG





The beginning..





Investigation & learning







Snowhow - co-production with SVT & YLE





The Strategy

- HD or UHD?
- PQ or HLG?
- Linear distribution and/or OTT?





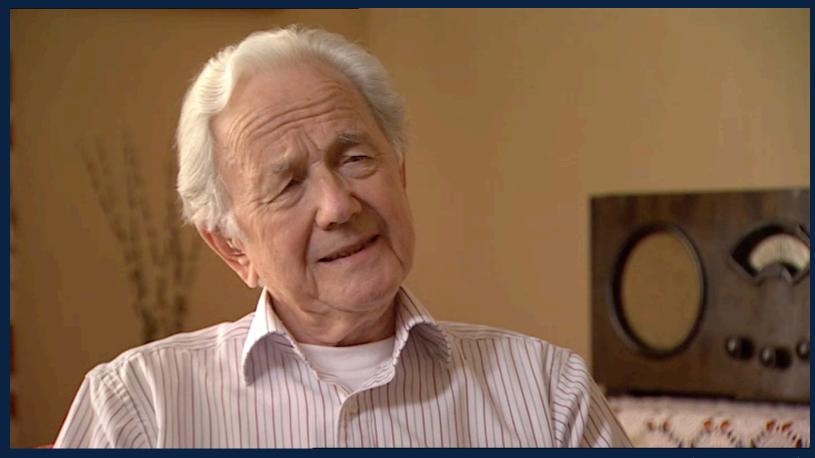








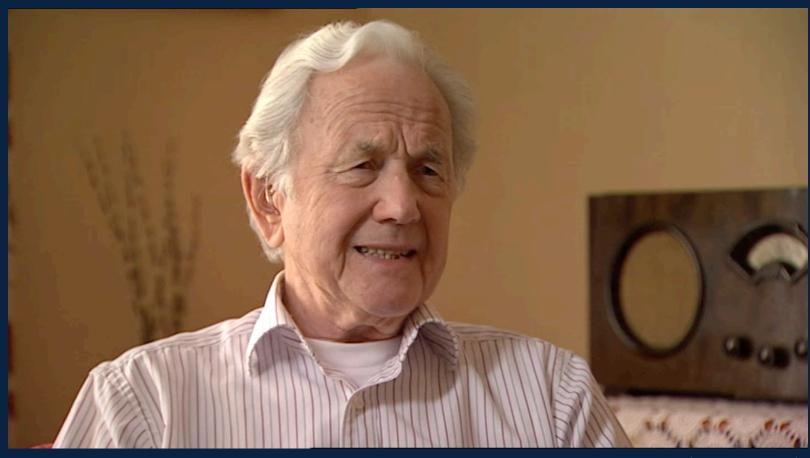
We need to wait for a strategy



Nils Mathisen (1929-2018)



We don't need to wait for a strategy



Nils Mathisen (1929-2018)



We don't need to wait for a strategy

Learning point #1:

Don't wait for marching orders, they will most likely never come. Find the enthusiasts within your organization and create a task force







TECHNOLOGY & INNOVATION

EBU HDR WORKSHOP

16 - 20 May 2022











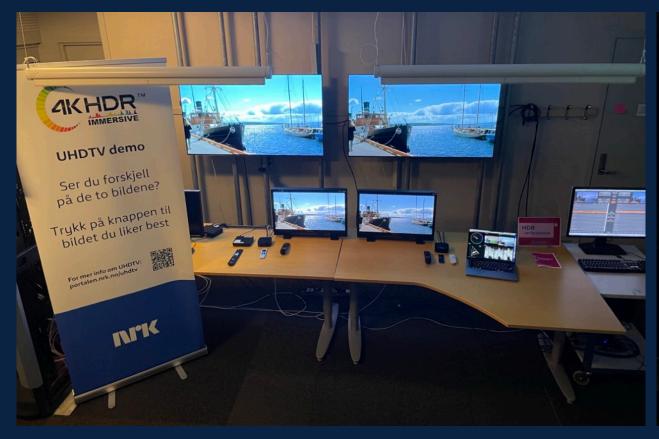
Investments





HDR Testlab

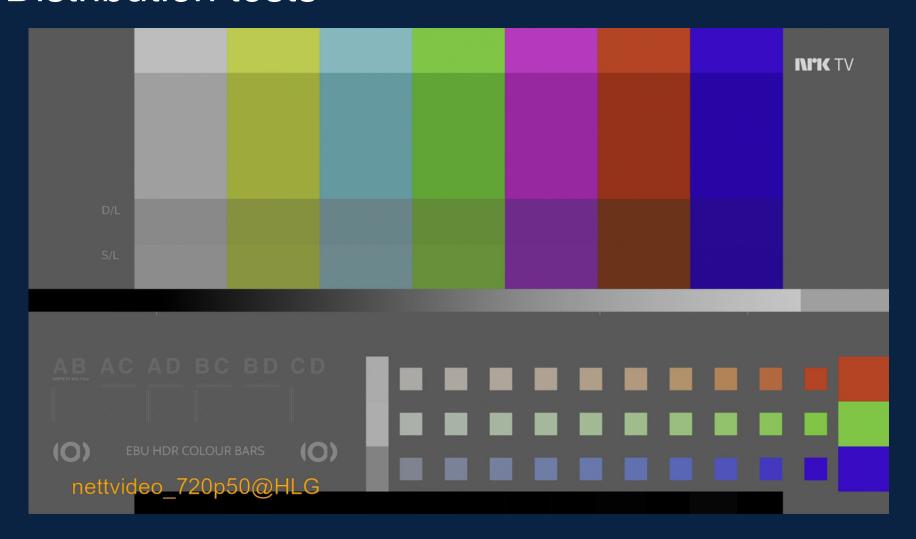








Distribution tests

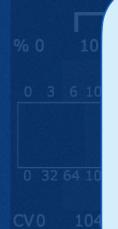








NPK TV



Learning point #2:

We recommend a dedicated Lab, with conversion capabilities and both professional and consumers screens

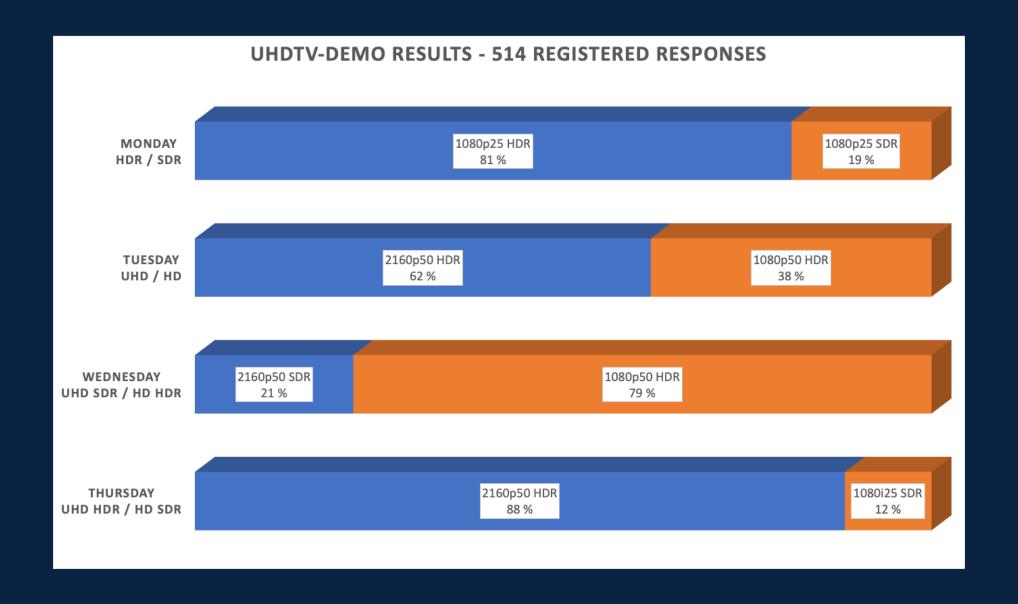
nettvideo_1440p50@HLG



Blindtest rig









UHDTV-DEMO RESULTS - 514 REGISTERED RESPONSES 1080p25 HDR 1080p25 SDR Learning point #3: Easy-to-use workflows

Easy-to-use workflows
Encourage exploration of p50
Contrast > Resolution

THURSDAY
UHD HDR / HD SDR

2160p50 HDR
88 %

1080i25 SDR
12 %

HDR (pre-)production











HDR (pre-)production





HDR (pre-)production

Learning point #4:

Promote UHDTV in your organization
Pre-produce HDR content









NIK



HDR distribution trials

androidty



android in S

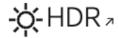




webOS



nrk.no/hdr



NRK offers content in <u>HDR</u> ⊅ (High Dynamic Range). These programs have sharper images, better contrast and more colors.

HDR is available in **the NRK TV** app on some platforms, and currently only for selected programmes.

Live broadcasts in HDR will be available on **NRK TV** at a later date.

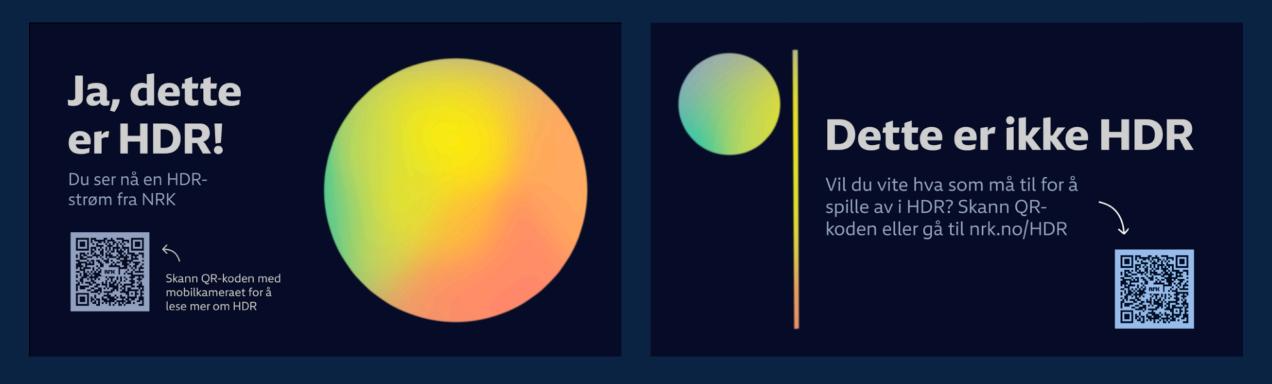
Basic picture settings we recommend

- ▶ □TV settings
- ▶ ♂Apple TV
- ▶ ∰ Android TV (Smart TVs and streaming boxes based on Android TV)

HDR information

- What are HDR, UHD and 4K
- What content is available in HDR?
- ▶ How can you watch HDR from NRK
- ▶ How to check if you can receive HDR from NRK
- Which HDR format does NRK offer?
- What if I can't get HDR?





Yes, this is HDR!

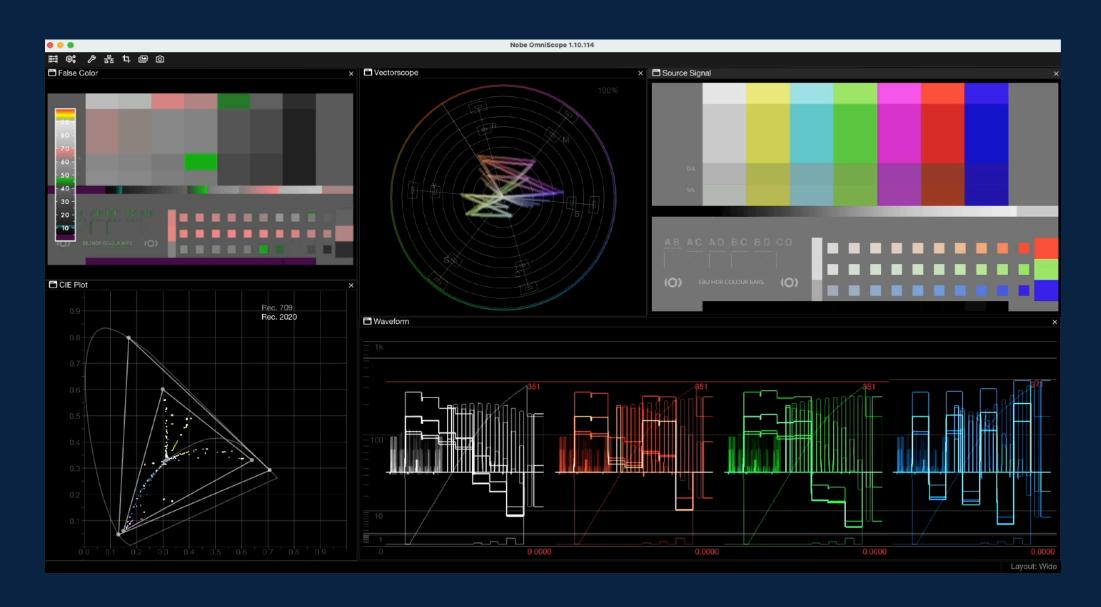
You are now watching an HDR stream from NRK

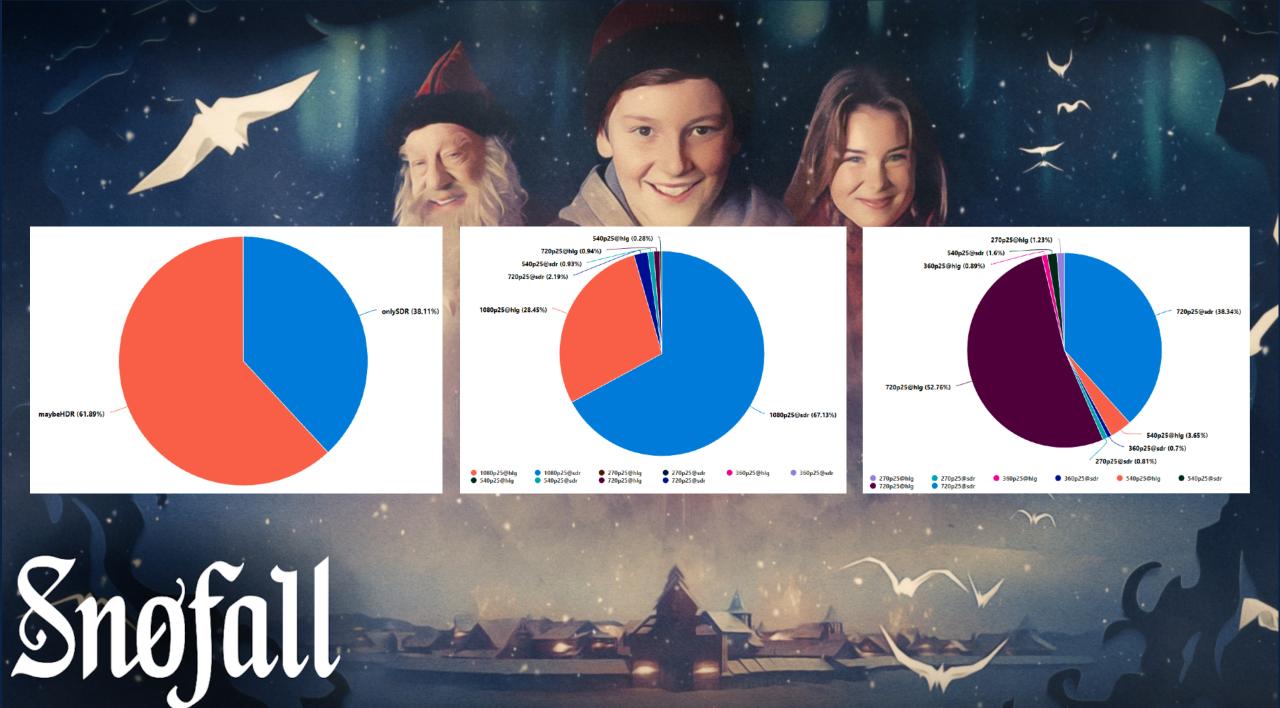
Scan the QR code to learn more about HDR

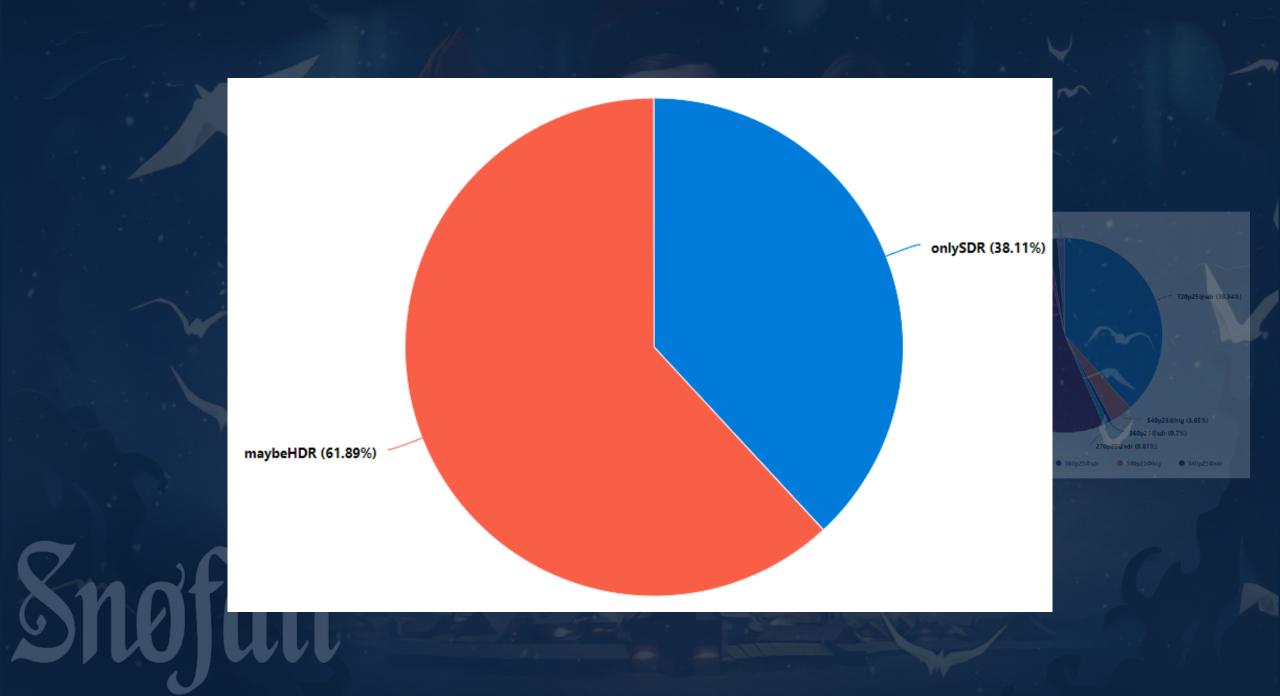
This is not HDR Scan the QR code to learn what you can do to receive HDR from NRK

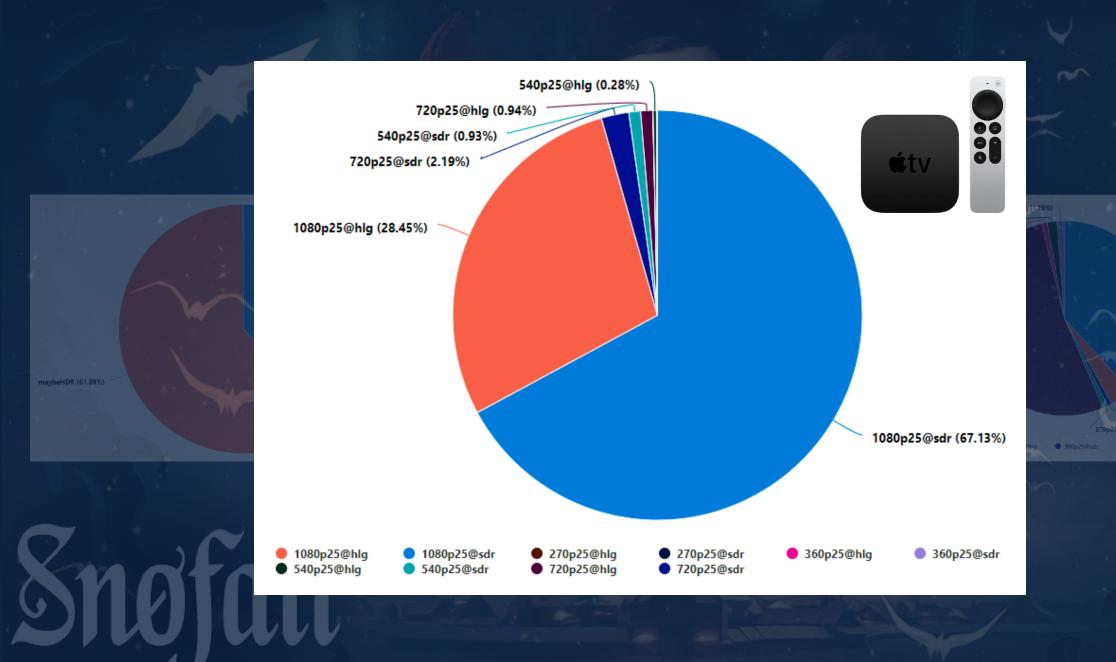


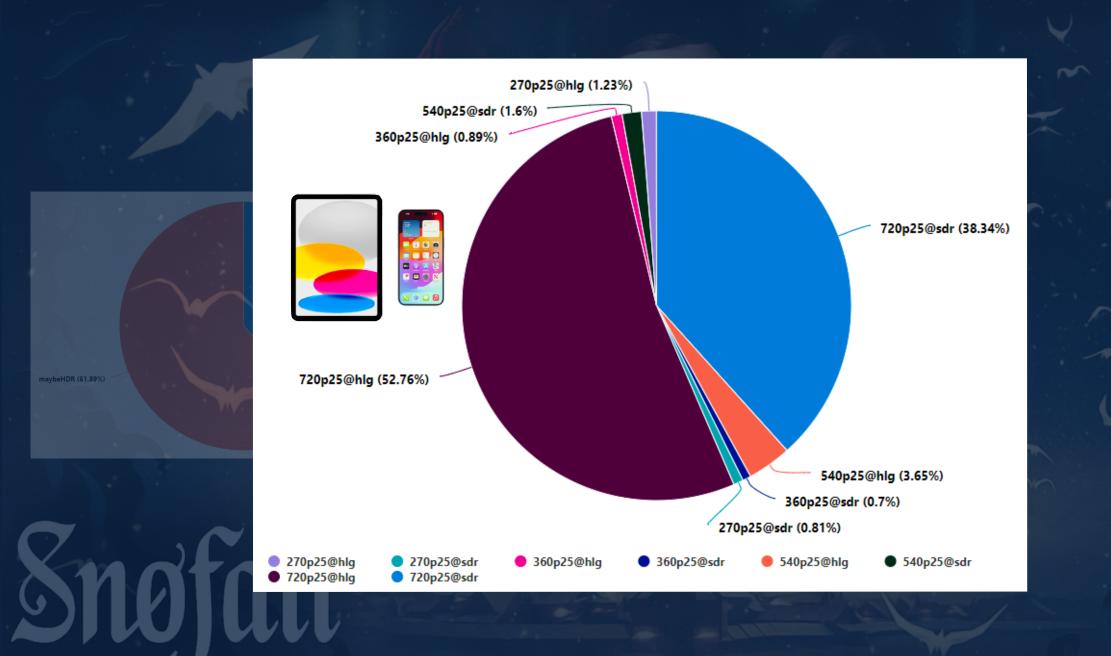
Current scope











































Thank you