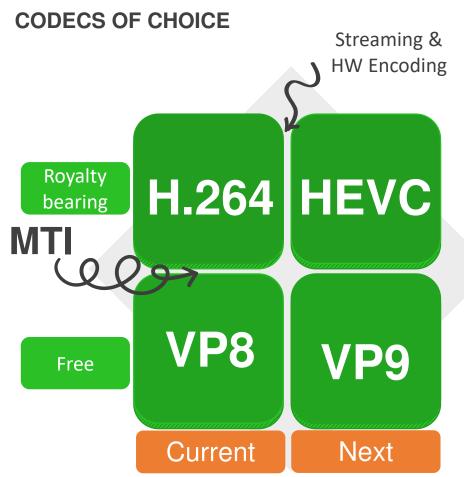
Picking a WebRTC Video Codec

Starting to develop a WebRTC application? Great. Time to decide which video codec you are going to use

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Royalty free Very common The industry standard in WebRTC (non WebRTC) Open source VP8 Patent royalties are a implementation pain (for non-browsers) No hardware Hardware acceleration H.264 acceleration is abundant Most WebRTC media Relatively "new" servers support VP8 in WebRTC No Simulcast and SVC support for WebRTC

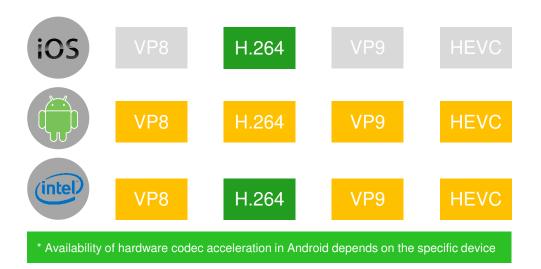
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WHICH BROWSER SUPPORTS WHAT CODEC?



WHICH OS SUPPORTS WHAT CODEC?



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CODECS OF CHOICE



Use WebRTC whenever possible

1:1 SESSIONS ONLY

- 1 Use VP8 when possible.
- 2 Switch to H.264 if VP8 isn't available.
- Explore using H.264 on mobile due to hardware acceleration.

GROUP VIDEO CALLS (routing media)

- 1 Use VP8.
- Without simulcast or SVC in H.264 you're better off with VP8.
- 3 Have Safari users join with audio only.



GROUP VIDEO CALLS (mixing media)

- Use both. Start with whatever your MCU supports better.
- Plan to add more video codecs in the future.
- Plan for supporting multiple encoded streams per session.

STREAMING AND BROADCASTING

- Use H.264 if it offers an advantage in the rest of your media pipeline.
- Think of how you will handle patent royalties.