

Are Pixels Better Than Links?

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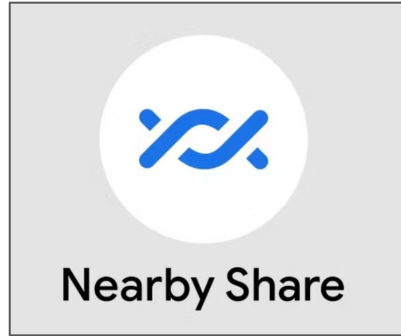
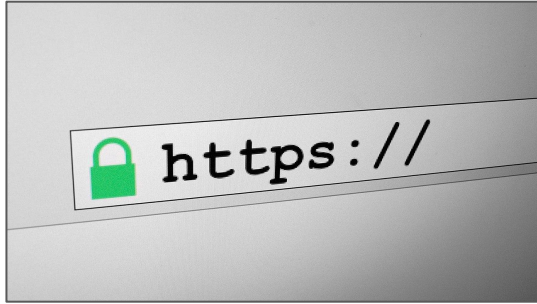
Google - Chrome Media

BlinkOn 17 - November 15, 2022

<https://tinyurl.com/mr2a5pjj>



In the beginning: Asynchronous Sharing



Real-time sharing 1.0 (2005-)



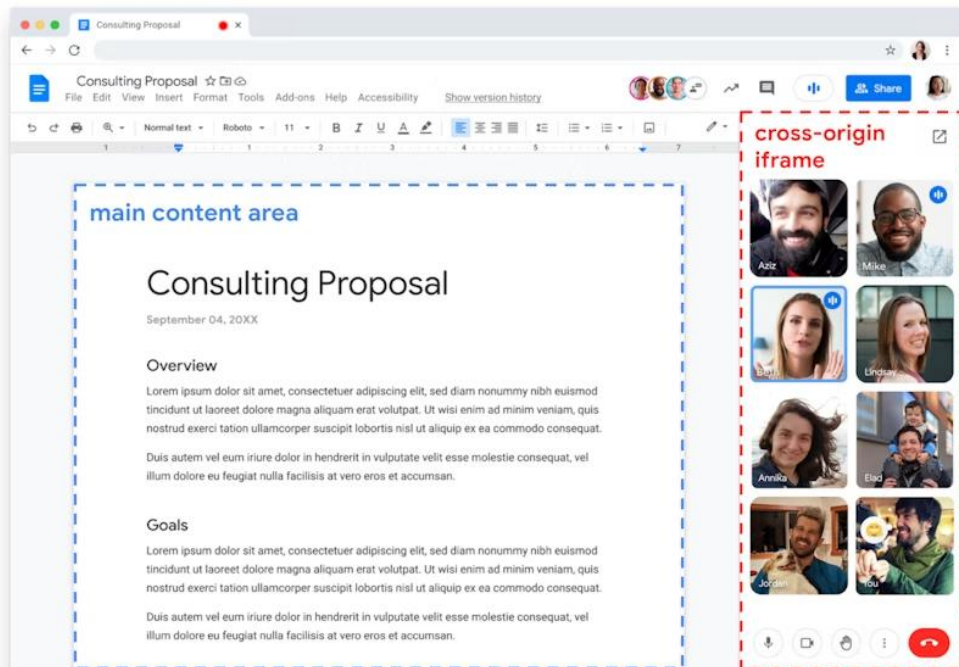
Sharing 2.0: Desktop sharing (2012-)



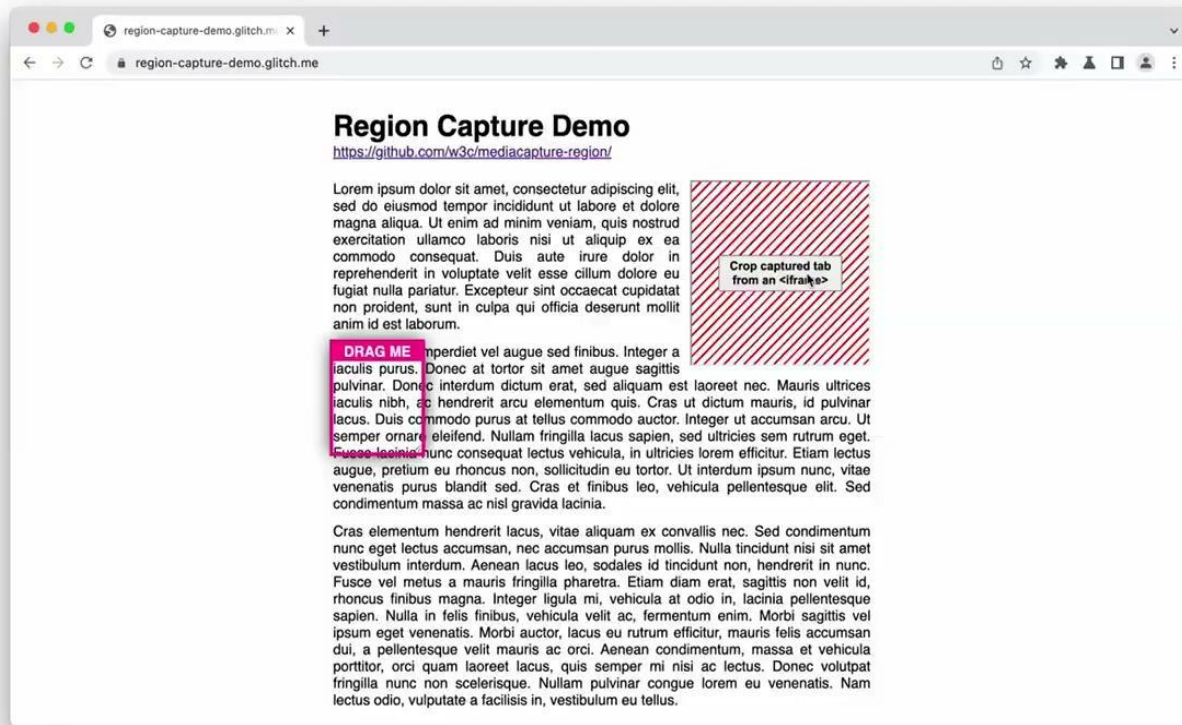
Sharing 2.5: Tabs with [getDisplayMedia](#) (2018-)



Sharing 3.0: Semantic sharing

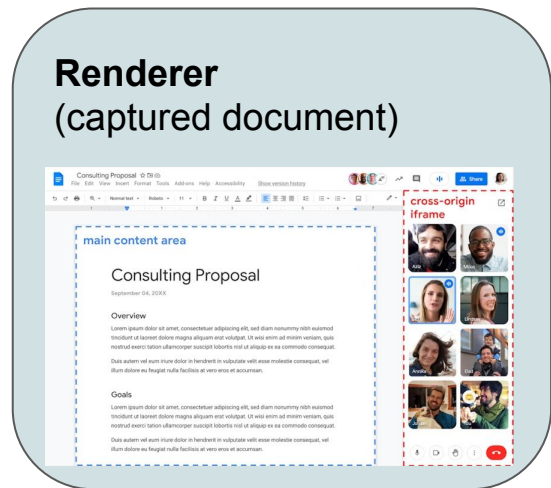


M104: Region Capture

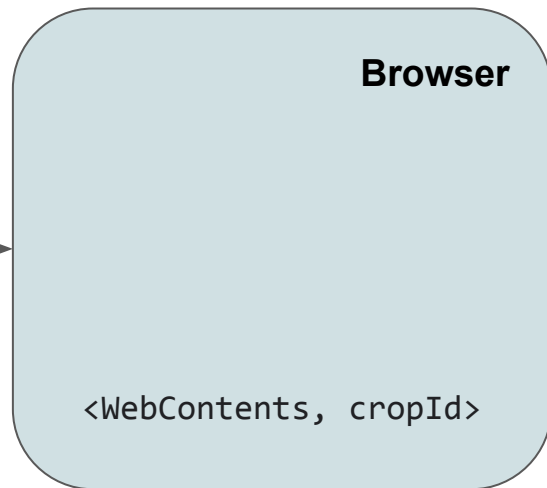


Region Capture: Choosing what to crop

```
const mainContentArea = document.querySelector("#mainContentArea");  
const cropTarget = await CropTarget.fromElement(mainContentArea);
```

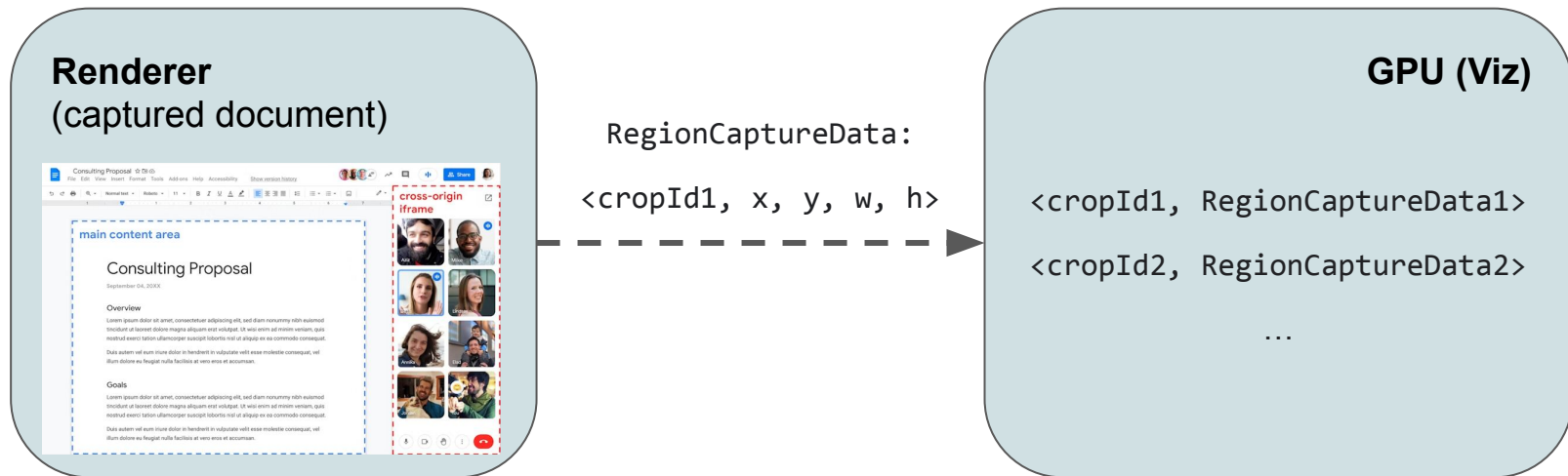


cropId



IPC

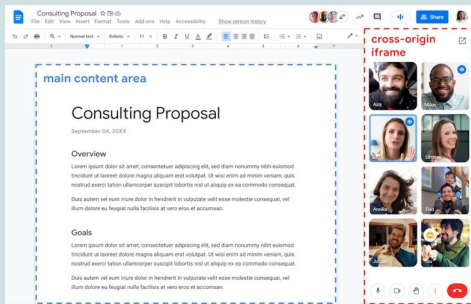
Region Capture: Tracking the cropped region



Region Capture: Cropping the video track

```
const [track] = tabCaptureStream.getVideoTracks();  
// cropTarget could be passed to our page via postMessage, etc.  
await track.cropTo(cropTarget);
```

Renderer (capturing document)



cropTo(cropId2)

GPU (Viz)

cropId2 => RegionCaptureData2



Improving Capture Quality: HiDPI capture

Your Company

123 Your Street
Your City, ST 12345
(123) 456 - 7890

Quick Links:

[Project Name 1](#)
[Project Name 2](#)
[Project Name 3](#)
[google.com](#)

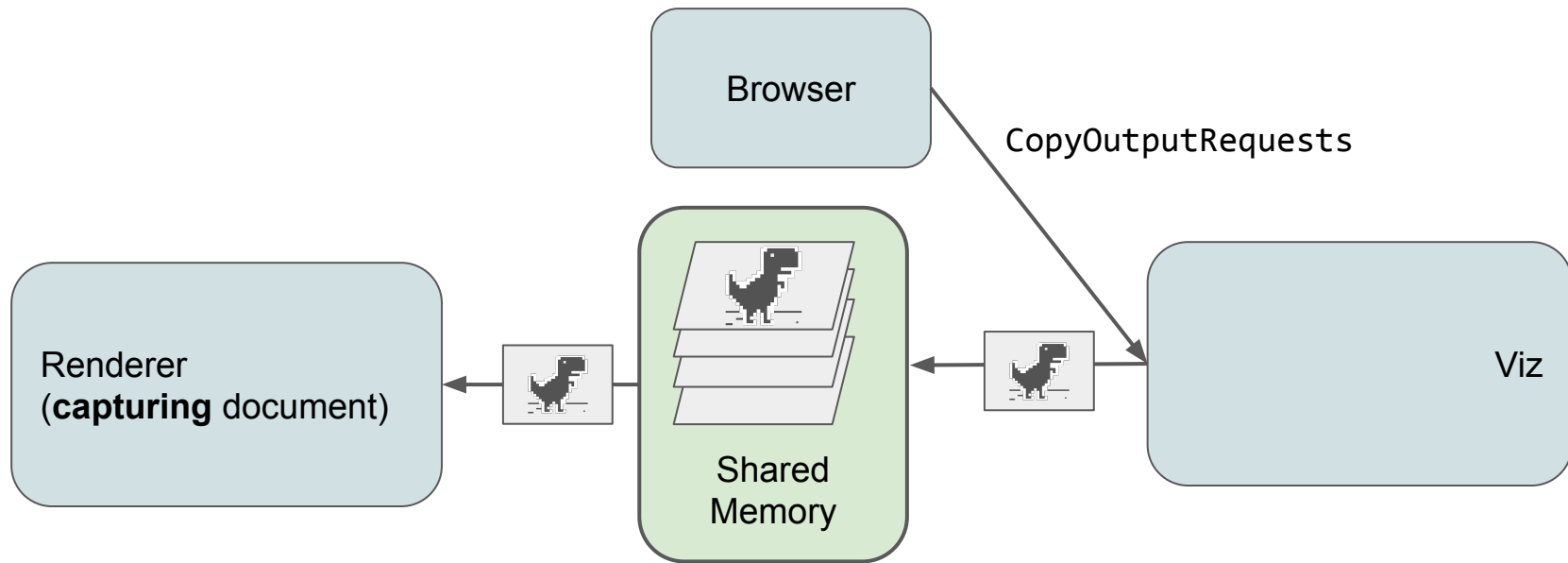
Your Company

123 Your Street
Your City, ST 12345
(123) 456 - 7890

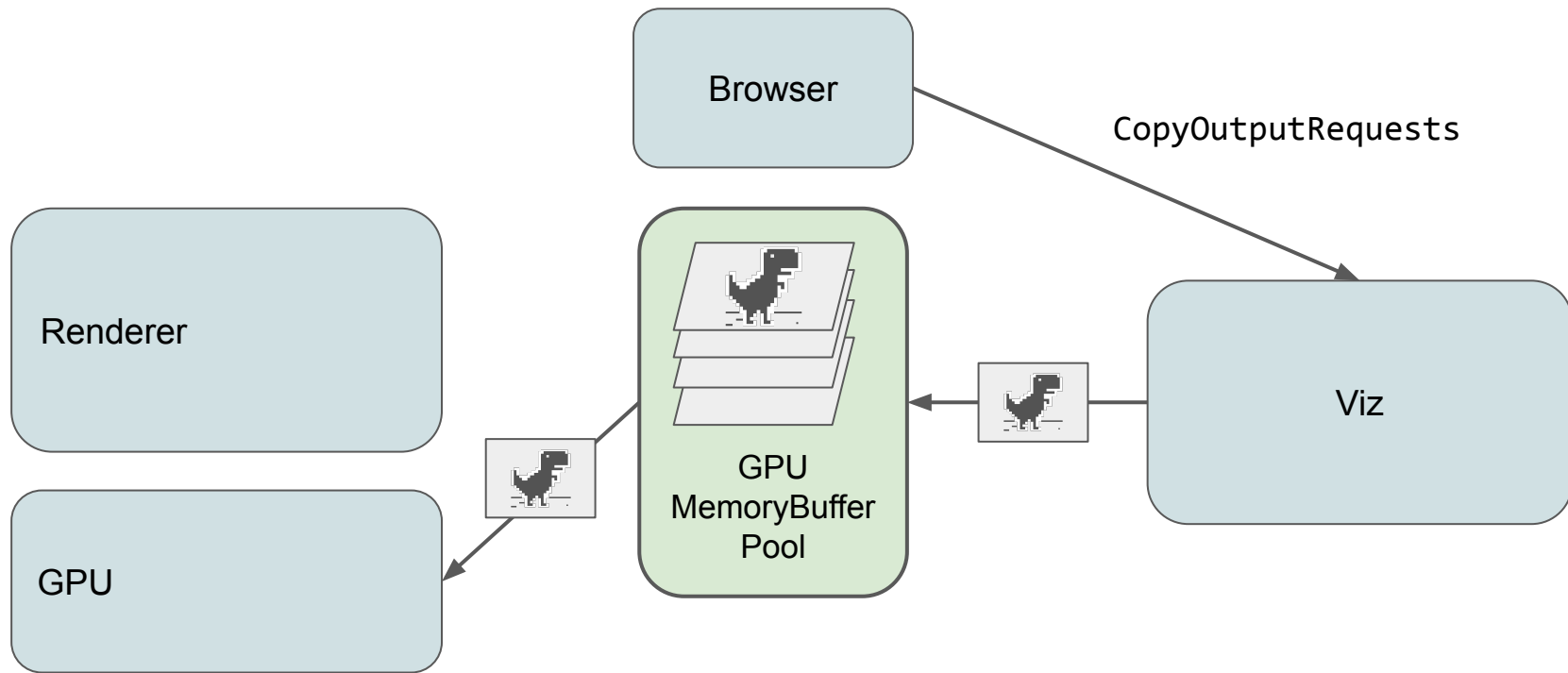
Quick Links:

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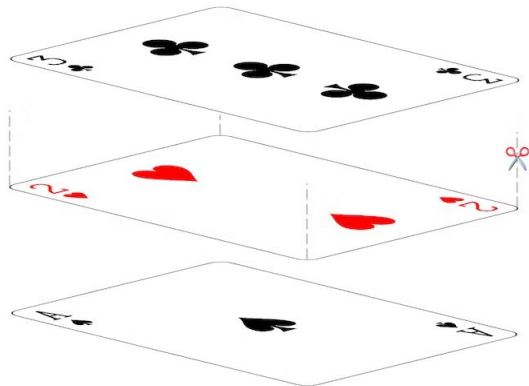
Improving Capture Efficiency



Improving Capture Efficiency: “Zero” Copy Capture



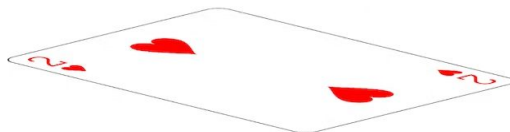
Beyond Cropping: Element Capture



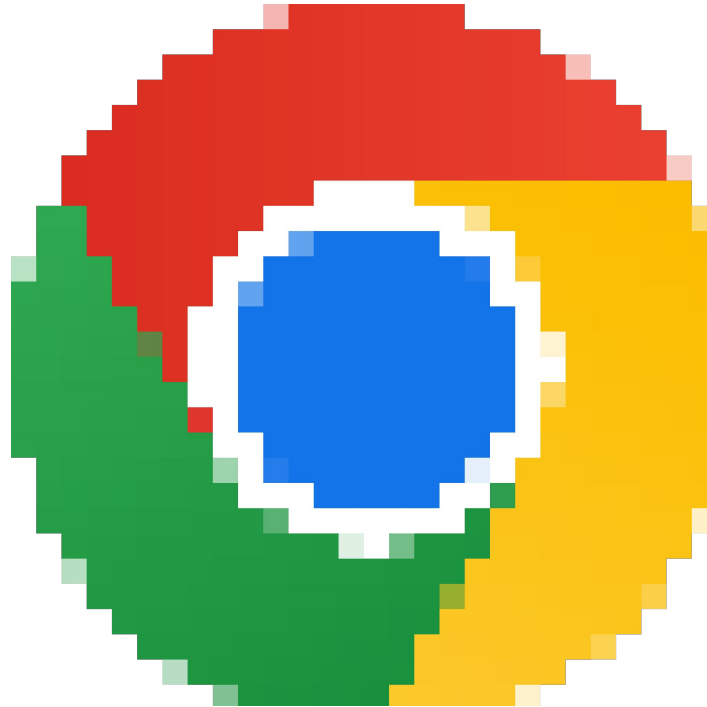
Region Capture result



Element-level Capture result
(potential future API)



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Contacts and Docs

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#media on [Chromium Slack](#)

<https://chromium.googlesource.com/chromium/src/+/refs/heads/main/docs/media/capture/>

Q + A



<https://tinyurl.com/mr2a5pjj>

PRESENTER STEPS:

- Ensure your backup presenter is available
- Present your slides or pre-recorded talk by:
 - selecting "Present now";
 - selecting "Chrome tab," "A window," or if needed, "Your entire screen;" and
 - selecting "Share"
 - ensure a Google participant starts recording the presentation.
- If applicable, remove participants by:
 - [Non-Goglars] asking a Google participant to remove participants
 - [Googlars] selecting "Remove from meeting" in a participant's thumbnail image

TECHNICAL CONSIDERATIONS:

- Turn on captions by:
 - selecting "Turn on captions"
- If you experience quality issues, change your send and receive resolutions to 360p by:
 - selecting "Settings"
 - selecting "Video" and then the setting you want to change

Region Capture: Challenges