

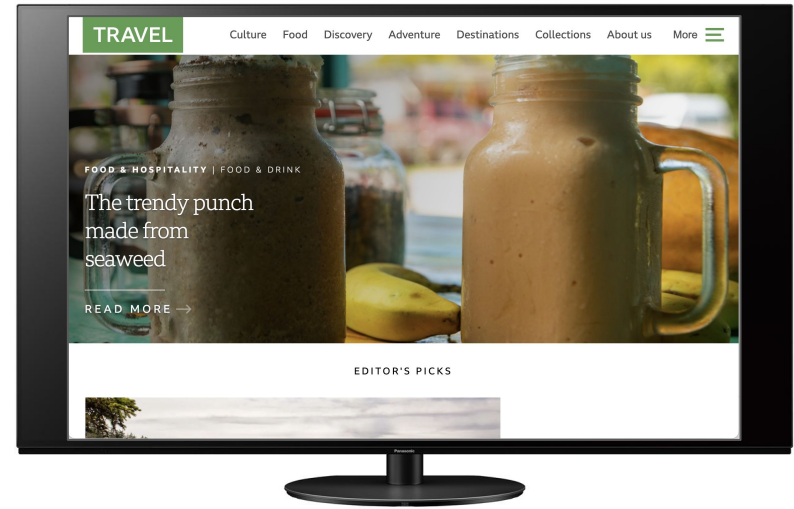
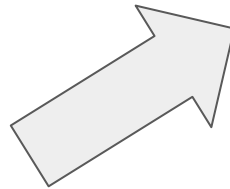
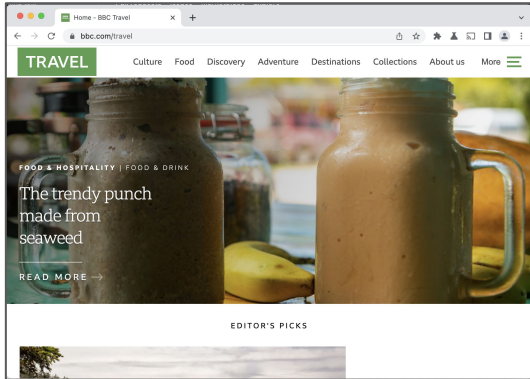
# Site-initiated mirroring

Second Screen WG/CG - TPAC 2022

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# Site-initiated mirroring: What was it again?

- Allowing a website to request to mirror itself
- Google Slides, Google Meet, and YouTube Music currently do it via Cast SDK



# Site-initiated mirroring: Status update

- TAG review completed ([link](#))
- Tweaked API proposal shape since the June meeting
- Explainer available on [GitHub](#)
- Implementation ongoing in Chromium ([bug tracker](#))
  - Behind runtime flags:

```
--enable-blink-features=SiteInitiatedMirroring
```

```
--enable-features=allow-all-sites-to-initiate-mirroring
```

# Site-initiated mirroring: Proposed API

```
// Mirroring source with default configs:  
const request = new PresentationRequest([{'type': 'mirroring'}]);  
  
// Opens the UA's device picker UI.  
const connection = await request.start();
```

# Site-initiated mirroring: Proposed API (cont'd)

```
// Mirroring source with custom configs:  
const request = new PresentationRequest([{  
  type: 'mirroring',  
  captureLatency: 'low',  
  audioPlayback: 'receiver',  
}]);
```

# Site-initiated mirroring: Proposed API (cont'd)

```
// Multiple sources, in the order of preference:
const request = new PresentationRequest([
  {type: 'mirroring', captureLatency: 'low'},
  "https://example.com/receiver",
  "https://example.com/receiver2"
]);

// The UA uses a source compatible with the receiver chosen by the user.
const connection = await request.start();
if (connection.source.type == 'mirroring') { ... }
else if (connection.source.url == 'https://example.com/receiver') { ... }
```

# Possibility for a future expansion: MediaStreams

```
const stream = ...;  
const request = new PresentationRequest([{  
  type: 'media-stream',  
  stream: stream  
}]);
```

## Site-initiated mirroring: Links

- [Explainer on GitHub](#)
- [Chrome Platform Status](#)
- [Chromium bug tracker](#)

Further questions/comments? Please file an issue [on GitHub](#) or email [takumif@google.com](mailto:takumif@google.com) and [mfoltz@google.com](mailto:mfoltz@google.com)