

Open Source | Open Possibilities



Image Capture Specification, Update

May 2014

Current Features

- Three main methods currently
 - takePhoto() - For photographs in the form of blob object
 - getFrame() – for RGBA data in the form of an ImageData object
 - setOptions() – for configuring capture device
- Single error event handler onerror

Finalizing Settings

- Added two new settings
 - Autofocus option
 - Zoom
- Open issue: how to handle non-autofocus cases
 - Spec doesn't address: manual focus up to end user interaction
 - Is this OK?

Camera Preview

- As agreed upon at TPAC 2013, added camera preview MediaStream
 - previewStream
- No special security properties on preview stream
 - In theory, app can even send it over RTCpc

Promise-based Object

- takePhoto() is suitable for promises, so a promise-based method has been proposed as an optional implementation
- ImageCapture object is now overloaded to allow for promise based methods
 - Is this OK?
- setOptions() and onoptions event handler remain
 - Changing of camera options can occur due to multiple types of interactions
 - onoptions is meant to provide a means for app to listen for options changes
 - So ImageCapture is an event target with promise-based methods
 - Is this OK?

Overarching Concern

- Who is implementing this?
 - Only Mozilla has committed to takePhoto()
 - Not in IE 11
 - Not in Blink