

# Specific constraints / run-time changes

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# Questions to answer

- What getUserMedia constraints do we support?
- What run-time settings changes do we support?

# Harald's proposal (video constraints)

- <http://tools.ietf.org/html/draft-alvestrand-constraints-resolution-01>
- {min,max}  
{Width,Height,AspectRatio,FrameRate}

# Travis' proposal (device settings)

- [http://dvcs.w3.org/hg/dap/raw-file/tip/media-stream-capture/proposals/SettingsAPI\\_proposal\\_v4.html](http://dvcs.w3.org/hg/dap/raw-file/tip/media-stream-capture/proposals/SettingsAPI_proposal_v4.html)
- Video characteristics: width, height, picture track, facing
- Audio characteristics: level
- Video settings: min/max/initial of dimensions, rotation, zoom, focusMode, fillLightMode, framesPerSecond
- Audio settings: (none)

# Travis' proposal

## (MediaDeviceList trial constraints)

- [http://dvcs.w3.org/hg/dap/raw-file/tip/media-stream-capture/proposals/SettingsAPI\\_proposal\\_v4.html](http://dvcs.w3.org/hg/dap/raw-file/tip/media-stream-capture/proposals/SettingsAPI_proposal_v4.html)
- Video constraints:
  - min/max of width, height, horizontalAspectRatio, verticalAspectRatio, zoom, framesPerSecond
  - rotation, focusMode, fillLightMode
- Audio constraints: min/max of level

# Giri's proposal (picture constraints)

- [http://lists.w3.org/Archives/Public/public-media-capture/2012Oct/att-0141/Picture\\_Settings.htm](http://lists.w3.org/Archives/Public/public-media-capture/2012Oct/att-0141/Picture_Settings.htm)
- Based on takePicture() method for a PictureDeviceTrack (subset of video track)
- Defines new MediaSettingsItem to set single value (rather than range)
- Picture settings:
  - Value: whiteBalanceMode, autoExposureMode, iso, redEyeReduction
  - Range: exposureCompensation, brightness, contrast, saturation, sharpness

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