



# HTML DEVICE ELEMENT

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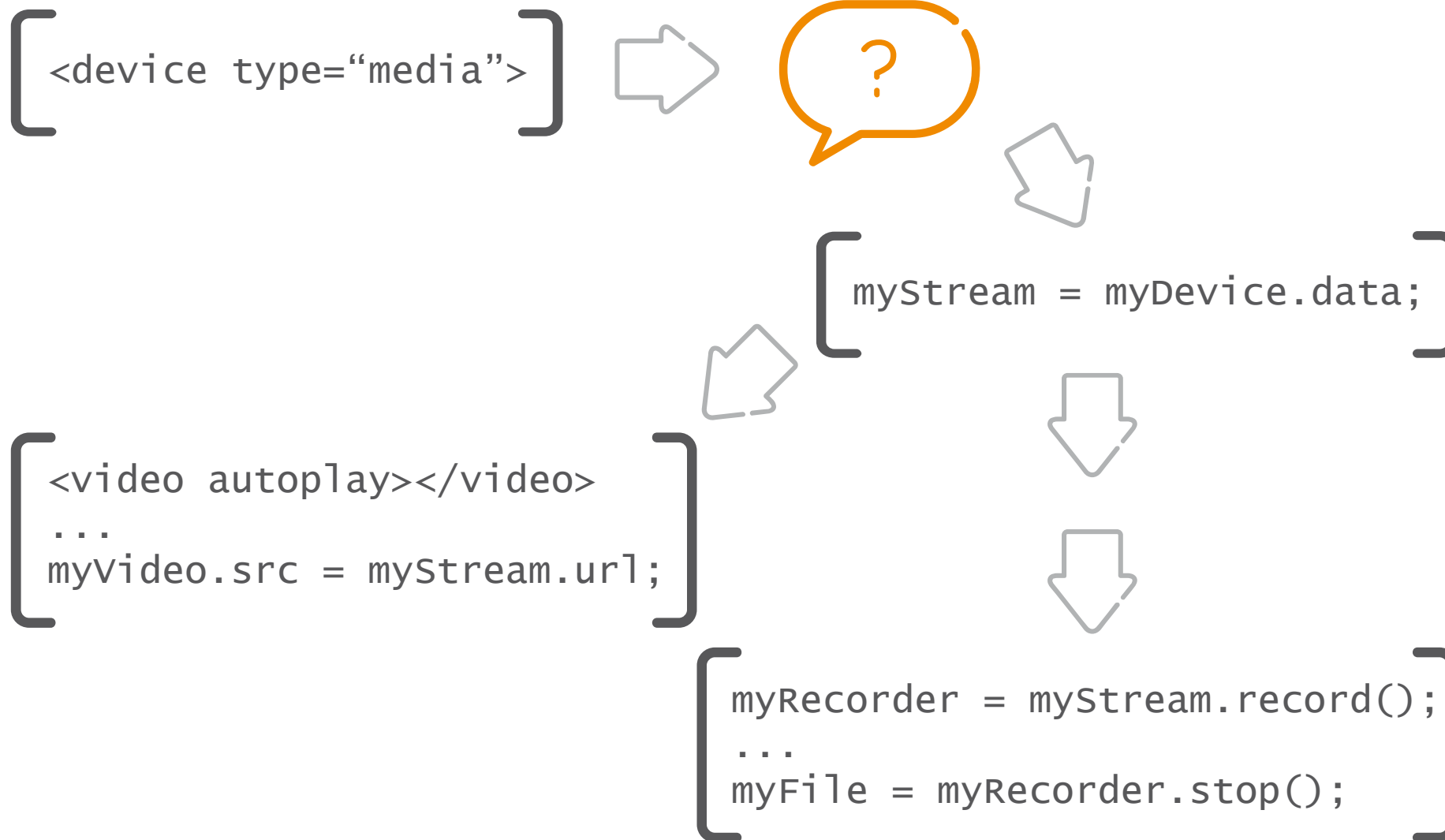
# WHAT IT IS

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- › Initial UI discussions on [public-device-api@w3.org](mailto:public-device-api@w3.org)
  - Toolbar buttons, ..., Infobars, *Device well*
  - Conclusion: New element needed
- › An HTML element representing a device selector
  - Lets the user grant a webpage permission to use a device in a *secure way*
- › Example devices
  - Video camera
  - Microphone
  - ...

# HOW IT IS USED

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# NEW POSSIBILITIES

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- › Upload video to a video blog without leaving the browser
- › Add voice to a web based game or chat room
- › Make calls from/to a web based telephony application
- › Enable augmented reality in web applications
- › ...

# PROTOTYPING @ ERICSSON LABS (1)

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- › Device element
  - UI in HTML/CSS (API to query media backend, insecure!)
- › Stream API
  - Support for composed streams
  - Registry to map between URLs and media pipelines
- › Media element extensions
  - Play Stream by URL



# PROTOTYPING @ ERICSSON LABS (2)

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## › MediaStreamTransceiver

- No proposed API for sharing streams over the network at the time
- WebSocket used as transport



<http://tinyurl.com/ERLabsDevice>

# SUMMARY

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- › The device element will enable a lot of new use cases
- › More work remains to be done
- › Use code and knowledge gained during prototyping work to contribute to open source projects and specification work



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