

2021 WPE WEBKIT GRAPHICS REPORT

May 2021 - Web Engines Hackfest



INTRODUCTION



FEATURES

OFFSCREENCANVAS

Target: H1 **Status:** Near complete upstream

- OffscreenCanvas specification
- Bug 183720

WEBXR

Target: H2 **Status:** Near complete upstream

- WebXR standards
- Bug 208988

SVG2

Target: H2 **Status:** Prototype implementation complete

- SVG2 specification
- Bug 191292



PERFORMANCE

SCROLLING

Target: H1 **Status:** Ongoing

NEW GRAPHICS PIPELINE

Target: H1 **Status:** In progress

COG SHM SUPPORT

Target: H1 **Status:** Upstream work complete, cog work ongoing

COG EGLSTREAM SUPPORT

Target: H1 Status: Stalled

COG MULTI-VIEW SUPPORT

Target: H1 **Status:** Proof of concept complete, integration ongoing

- multiple-views branch



ARCHITECTURE

GPU PROCESS

Target: H2 **Status:** Not started

ANGLE-BACKED WEBGL

Target: H2 **Status:** Not started



FUTURE



VULKAN SUPPORT

WEB GPU

- Specification



SKIA



PARALLEL IMAGE DECODERS

CONCLUSION

- Updates