



WPE: FAST, LIGHTWEIGHT WEBKIT PORT FOR EMBEDDED DEVICES



WPE WebKit is the official WebKit port for embedded and low-consumption computer devices. It has been designed from the ground-up with performance, small footprint, accelerated content rendering, and simplicity of deployment in mind.

It brings the excellence of the **WebKit** engine to countless platforms and target devices, serving as a base for systems and environments that primarily or completely rely on web platform technologies to build their interfaces.

WPE WebKit's architecture allows for inclusion in a variety of use cases and applications. It can be custom embedded into an existing application, or it can run as a standalone web runtime under a variety of presentation systems, from platform-specific display managers to existing window management protocols like **Wayland** or **X11**.

Igalia helps customers deploy **WPE WebKit** on many embedded platforms, and implements support for new features.



Some advantages of WPE WebKit:

- Enables rich and fast 2D and 3D HTML-based user interfaces, integrating multimedia, 3D content, and many of the latest Web technologies, to run smoothly and efficiently on low-cost devices.
- Displays multimedia content directly in HTML, with high-quality CSS 3D animations, WebGL, and fluid high quality HTML videos.
- Focused on graphics performance with multi-threading optimizations to improve CSS animation, scrolling, scaling, and rendering of canvas and video elements.
- Strong focus on multimedia applications with WebRTC, MSE (MP4, WebM, VP9, Opus) and EME (ClearKey and other third-party DRM frameworks) supported and constantly improving.
- Unlicensed parts of Youtube TV and similar platforms are now enabled.
- The minimal set of dependencies needed to run WPE WebKit ensures that its footprint is small and it consumes less memory, which allows applications built with WPE WebKit to run on low-end devices.



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