Qt WebGL Streaming

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What's WebGL?

- WebGL (Web Graphics Library) is a JavaScript API for rendering 2D and 3D graphics within any compatible web browser

What's Qt WebGL Streaming?

› Enables streaming of Qt applications using OpenGLES2 (*)

    › Requires WebGL capable web browser

Some use cases

› Remote application access

› Publish applications

› Remote control

› Headless devices

› Presentations

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How was it implemented?

› Qt Platform Abstraction (QPA) Plugin

  › Set of interfaces to customize behaviour of Qt applications

› Minimal WebServer

  › It is used to send basic files

› QWebSocketServer

  › Connects the application and the web browser

› JavaScript

  › Converts serialized GLES2 binary format to WebGL

› WebGL

What's supported?

› Qt Quick

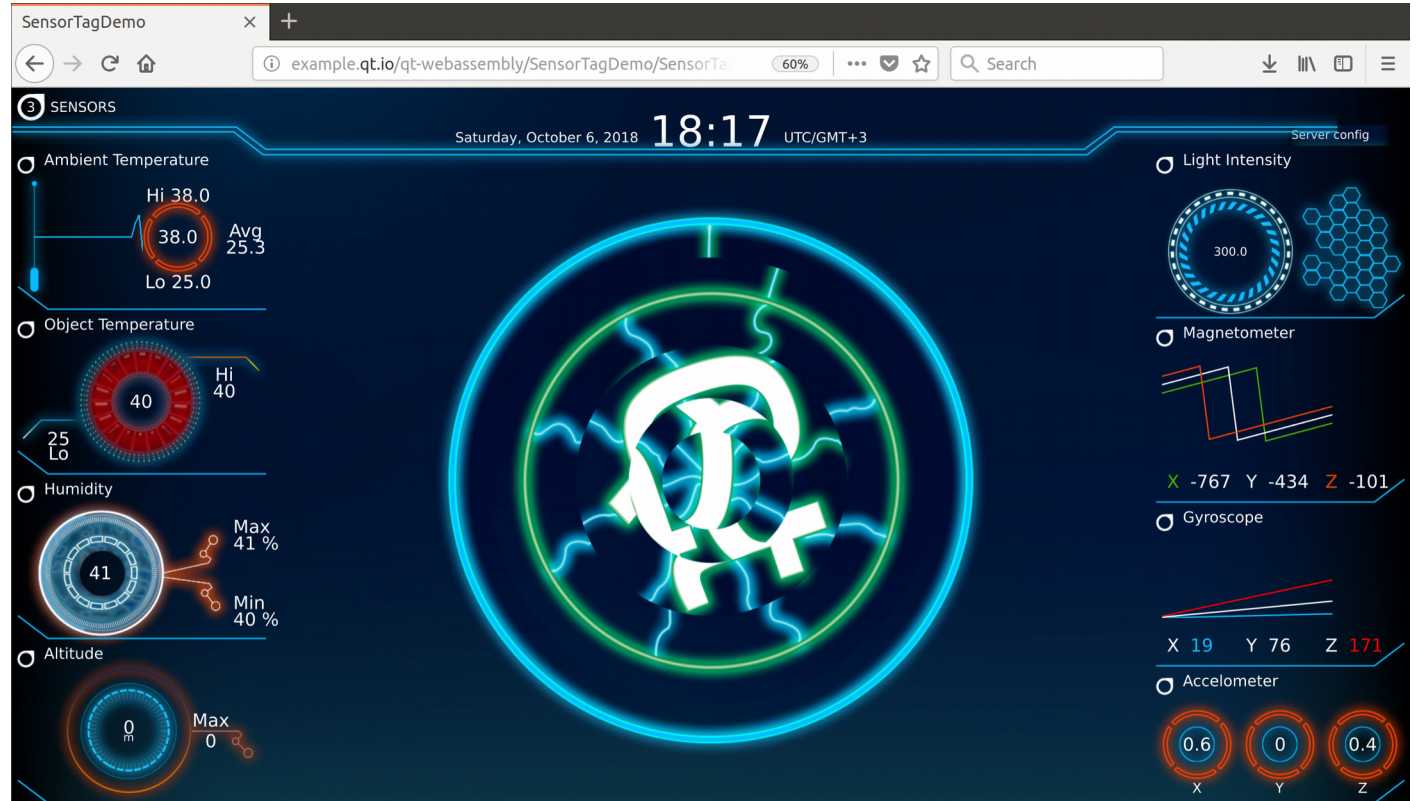› Qt OpenGL

› Single user

Qt WebGL demo

Qt WebGL demo

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Qt for WebAssembly (TP)

› Technology preview

› A new platform to run Qt
  › Comparable to Windows, Linux, Mac, Android, iOS...

› All key browser engine has agreed upon support WebAssembly

› Zero-install Qt apps
  › Qt application binary downloaded by the browser and running in the browser

Thank you