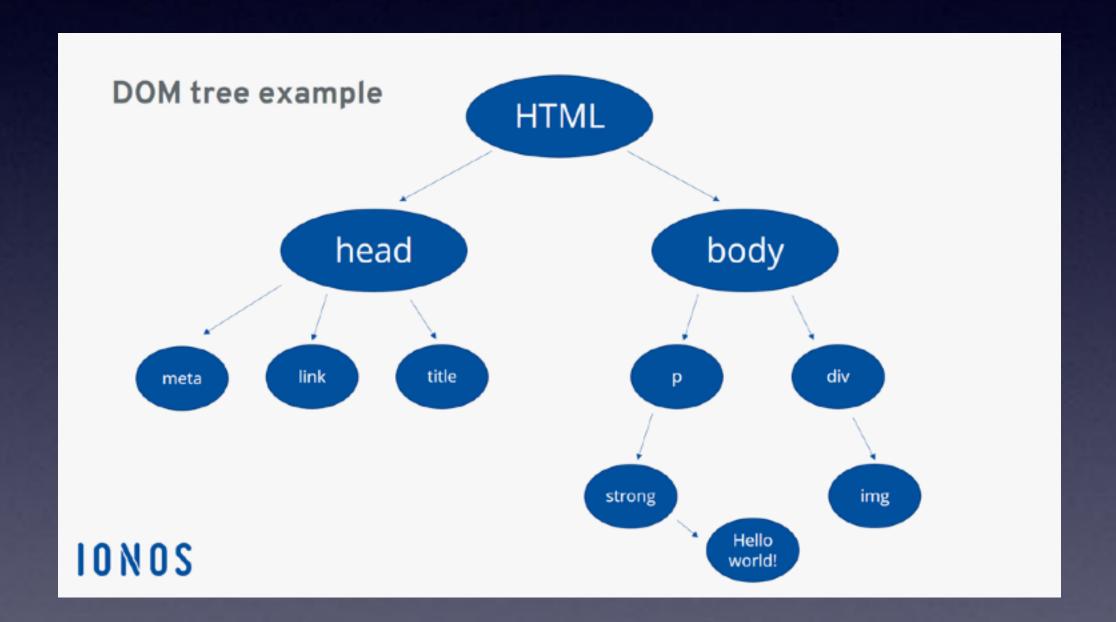
Browser Graphics

- everything displayed in a window is in Document Object Model (DOM)
- conventional web programming comes down to manipulating the DOM, using a weakly-typed language w/ automatic memory management
- almost the polar opposite of environment for high-performance graphics



APIs for WebXR

- Canvas is HTML Element (in the DOM) you can draw into (bitmapped)
 - covers rectangular part or all of window
 - doesn't contain DOM, nor retain your draw calls
- Current: WebGL 2: context of HTML Canvas
 - based closely on OpenGL ES 3.0,
 - focus is on the shader program, written in GLSL (you serve GLSL files just like JavaScript): flat, PBR, toon, points, etc
 - not accessible to the blind :-(
- Future: **WebGPU** in progress
 - new kind of Context of HTML Canvas element
 - no baggage from 1990s & supports modern GPU architectures
 - abstraction on top of Vulkan, Metal & DirectX 12
 - focuses on resource re-use via "pipelines" & "RenderBundles"