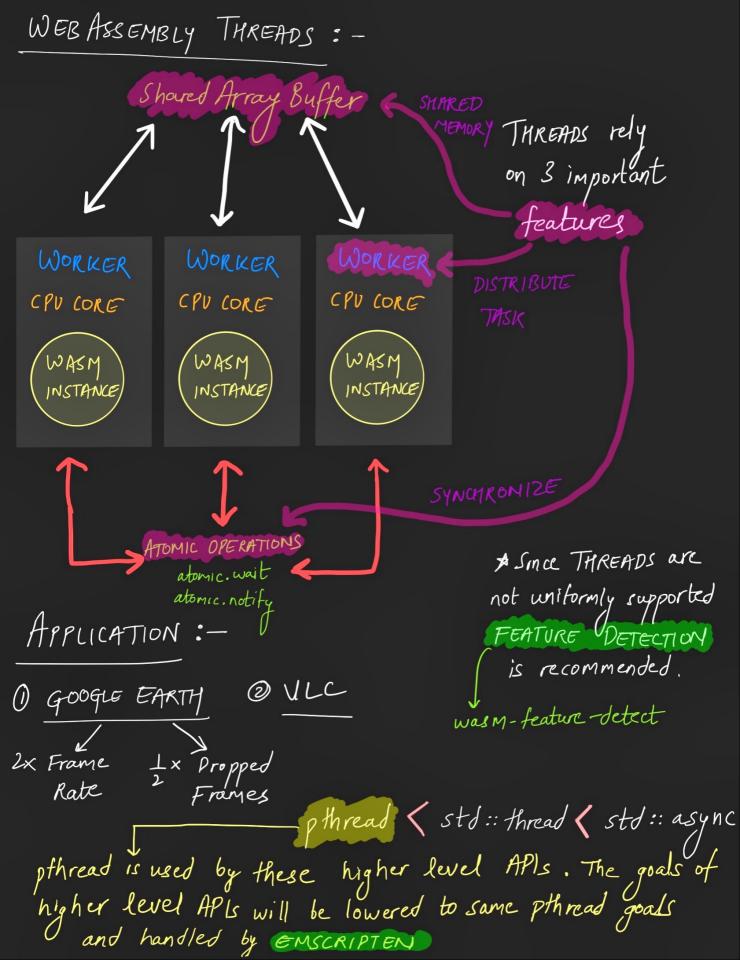
CHROME MODERN WEBASSEMBLY DEV SUMMIT 2019 \* Not a replacement for Java \* Portability -> Use open source libraries in web applications. => Shipped in all MAJOR BROWSERS WASM -> LIFTOFF SWAP LOAT) OFF THREAD OPTIMISATION 6PTIMIZED OPTIMIZED LODE CODE TURBOFAN IMPLICIT CACHING NEW SESSION TIPI# USE STREAMING APIS > compile Streaming instantiate Streaming

TIP2# BE CACHE FRIENDLY -> Keep URLS stable



## SIMD: SINGLE INSTRUCTION MULTIPLE DATA

WASM Vs. WASM SIMD ] > 3x

DEVICE: Galany SIO Speedup. MUP SIMD SIMD + THREADS Open CY applications -> 4 FPS 15 FPS 33 FPS THREDS SIMD SIMD+ THREADS Open CY Kernel Performance -> 3.5x 9x 30x AUTO - VECTORIZATION -> Compiler Feature Detects loops that

perform same mathematical SIMD operations on array items independently Experimental and available only in Chrome Must be used with FEATURE DETECTION EMSCRIPTEN PIPELINE Before Native LLVM -> fastcomp asm2wasm C/C++ LLVM IR asm. is Final Wasm WASM IR With Native LLVM ->

## USING ASYNCHRONOUS APIS

JAVASCRIPT WERASSEMBLY WER ASYNCE

ASSEMBLY TASK

Supported by a Woit for Asynchronous
tasks to finish.