What "is" C++'s language safety problem (2)

C++ should provide a way to let programmers

- **by default enforce** known rules in these areas, with explicit opt-out
- **aiming for a ~90-98% reduction** in these vulnerabilities (parity with other langs)

But right away let's clarify, and set some boundaries:

- "Immediate": The start, **not the end** (e.g., let's improve concurrency safety too)
- "Default" + "enforcement": Need a mode where "if it compiles, it's in the safe subset unless you explicitly opt out" (aka **bright line**)
- "Known rules": A great start, but also have a few **gaps to fill** (esp. bounds checking)
- "~90-98% improvement": That can be achieved with **full compatibility**, but trying for 100% is a mistake (not necessary for parity, not sufficient, and breaking compatibility would be too high a cost)

C++ Profiles