

# Type-Safe Programs

- ➔ Cannot access arbitrary memory addresses
- ➔ Cannot corrupt their own memory
- ✓ Do not crash

So why are we still using unsafe programming languages?

**If other programming languages are “memory safe”, why are we not using them instead?**

- ➔ Because C and assembly code are used when a program requires high performances (audio, vide, calculus ...)  
or when dealing with hardware directly (OS, drivers ....)