Modularity

R5RS does not even have define-struct or namespace management. This makes it difficult (impossible in practice?) to maintain library invariants:

- Can use let to hide private things
- Can make private copies to detect changes to values or “forged values” (but often may as well just re-check invariants)
- But clients can still assume things about the implementation

It should not be this awkward/expensive!

But can we have strong modules without compile-time types?
Yes, with define-struct, name hiding, and run-time checks.
An interesting comparison

In ML, an *abstract type* prevents abstraction-breaking clients (won’t typecheck)

In MzScheme, a *fresh type* and *hidden predicate* prevents abstraction-breaking clients (unbound variable).