

## Notes - 12/16

Friday, December 16, 2011 10:19 AM

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*[ In 41/4749 today at 10:15am ]*

### Agenda:

- Update on engineering
  - December drop today
- Design work:
  - Extern classes
  - Private
  - [ES6 modules](#)
  - /r and #reference and other meta-directives
  - Generics
  - Mixins and traits
  - Inference for lambdas
  - ES6 alignment: consider targeted expression-level features (destructuring? const?)
  - Overload resolution
  - Extern modules
- Anything else?

### JQUERY

Any vs. Object

- Object and string be different

Type hierarchy:

- Any
  - Object
    - Number
    - Boolean
    - String
  - number
  - bool
  - String

Overloading:

- "attr" requires overload resolution
- Can we avoid betterness?
  - Possibly separating into return type sets

### EXTERN CLASSES

- Basic issues - can base classes and new truly be expressions?
  - Compiler challenges
  - Would be nice
- Problems:
  - Base classes are not expressions
  - Requires clauses in interfaces?
  - Interface you are requiring/extending?
- **Decision:** We would like to kill them, we can't yet. We like the idea of base classes being expressions, but there are further issues. Mixins add a few more issues.

### PRIVATES

- Currently support private between sibling scopes
- Private can mean statically check, and don't publish across compilation
- Derivation causes problems if there are non-published members
- Possible: Can only have privates in sealed
  - Or allow in the same compilation but not across?
- More extreme: No extension by derivation across interface files?
  - Interface files are only instantiable?
  - /r is the way to include other Strada libraries
- **Decision:** We like the restriction above, and think we may be able to do this. We'll remove extern classes from our own lib files.

### MODULES:

- Types only exported with 'export'
  - Flag types with exported - don't mention them in interface codegen
  - Can't reference the type name either
  - Writing to module properties?

- **Decision:** Want to pursue a subset.