Notes - 11/14: SENT

Sunday, November 13, 2011   10:54 AM

[In 41/4731 at 2PM today]

Agenda:
- Update on implementation from Steve
- Make sure we are closed on:
  - When 'new' is allowed
  - Construct signatures
  - Extern classes (still exist, guidance for when to use)
  - Type of function literals
  - Type of object literals
  - Mixins
  - Brands
  - Null and undefined
- Require () on classes
- Backlog:
  - Simple generics
  - Promises typing
  - "is"
  - Optional parameters
  - Top-level scope and global module
  - Finish discussion of expression typing
  - "await"
  - Enums
  - Foreach
  - Any -> number (what gets emitted?)
- Anything else?

Code gen:
- Match coffeescript - always use a single outer closure

- 3 + null
- ES6 Classes
  - At least, force ()
- Call/construct closure
  - Allow new on void returning functions - returns any
  - Still need construct signatures - but only classes can provide
- Abstract classes

- When is 'new' allowed?
  - 'new' is allowed on void returning functions
- Construct signatures
  - Available in type literals and classes
  - Can be cast to from 'any'
- Mixins
  - Implemented!
  - Extends, implements, requires
  - Concern about requires in the type system
  - Dynamic 'mix'
- Order matters
  - Static errors
- Dynamic mixins
- _super_ needs to be filtered from dynamic mixin
- Extern classes:
  - When you are going to 'new' them, or inherit from them, mix them in
  - Brands
  - "property"/"function" - optional everywhere except
- Instanceof
- Classes are nominal types, interfaces are structural types
- Overloaded construct/function