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Notes - 1/21: SENT

Saturday, March 12, 2011 5:41 PM

Possible topics:

- · var->interface typing
- Continued review of expression typing examples
- Object literals and typed object literals
- · Close on overloading
- · We think we're at statically resolved with mangling
 - Type name resolution at global scope
 - Function coercion rules
 - Varargs?
 - Typing of ES5 builtins (Strada core library) and Strada language requirements
 - · First class types
 - Inheriting from JS objects (dynamically dispatched inheritance?)

 - INumber -> double coercions and similar
 - Separate compilation
- Mangling?

Status:

- · Get prototype running again
- · Get working branch for collaboration on front end
- · Focus non single file for now

Interface typing:

Interface erases to var at runtime (in the perf box)

```
interface IBar
{
  function int foo(int i);
}
class Bar
  function int foo(int i) {...}
}
IBar bar = new Bar(); // case 0
                       // case 1
bar.foo("3");
bar.foo();
                       // case 2
                       // case 3
bar.foo(3);
```

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bar.other("hello", 3); // case 4

My belief is that:

- 1. Bar is structurally compatible with IBar, even without interface declaration
- 2. Case 1 fails to type check. IBar has a foo method, and that method takes an int, and "3" is not implicitly coercible to int.
- 3. Case2 fails to type check. IBar had a foo method, and that method takes 1 argument.
- 4. Case 3 succeeds.
- 5. Case 4 fails

Aside:

• Code gen goal is "debuggable" and "readable", not "would have been written by a human"