

Notes - 1/11/2013

Thursday, January 10, 2013 7:57 PM

[In 41/2731 at 10:00 today.]

Agenda:

- Implementation update
 - Fidelity, pull model in progress
 - Generics prototyping starting in a few weeks
- Recap of remaining TypeScript v1.0 language topics
 - Generics [in spec]
 - Type parameters in scope in the entire declaration, even "backwards":
 - `Foo<T> extends Bar<U>, U>() {}`
 - `"var x: void; "` is now legal.
 - `var x: Array = [1,2,3]`
 - Does this fully alleviate breaking changes related to switch to generics?
 - `new Array<string>(3);`
 - Naked type constraints?
 - Not currently, maybe could open this up more in the future.
 - Interesting issue for:
 - `<T extends List<T>>(x: T, y: T): T[]`
 - Substitution of bounds may not work naively
 - Ambiguity discussion
 - Ask Brian how common this is?
 - [Modules and namespacing](#) [in spec]
 - Technically a breaking change here because modules no longer define a type
 - [Removal of brands and shift in meaning of privates](#) [in spec]
 - Nice `SelectableControl` example - will be in spec
 - This enables some of the "type-only mixins" scenarios we've seen many asks for - worth validating what's possible/not here now.
 - [Modules implementing interfaces](#)
 - [Enums changes](#)
 - [Overload on string constants](#)
 - `bool -> boolean`
 - [Readonly](#) in type system
 - Specific questions like "are functions readonly"?
 - ["export ="](#)
 - Some open issues
 - 'this'-types
 - `class C { foo(): C }`
 - `class D extends C { bar(): D }`
 - `d.foo().bar() // error - but shouldn't be`
 - `class Foo`
 - Issue?
 - `var x = this;`
 - `x = new C();`
 - `return this;`
- Should we create a 0.9 branch and put the spec plus early prototyping in there?
- Other persistent feedback areas:
 - Union types
 - Generators
 - Mixin models
- Design backlog
 - Bringing back explicit "this" parameter type
 - ... for arguments
 - String interpolation
 - Type-only mixins
 - Decorators
 - Static initialization (#74)
 - Thinking on how to approach async via generators (#38)
 - SkyDrive feedback – implications for future thinking?
- Others?