AngularDart Weekly Meeting Notes

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# July 14

* Welcome to new AngularDart team member Victor Savkin!
* Testability API is in master! ([f2d1f2e9e6](https://github.com/angular/angular.dart/commit/f2d1f2e9e64d18fe5407f67555eb1c30110bd419))
* DirectiveInjector is feeling pretty solid. Next priorities:
  + More performance updates
  + Code Size/page load time.
  + Give the PR queue some love.
* Rado is working on tree benchmark micromap ([#1230](https://github.com/angular/angular.dart/pull/1230))
* Matias is working on better registration of directives and filters.
* VicB is working on getting rid of @controller, @template, and rebasing the bind- branch on top of the latest stuff.
* Observable --> done and waiting to be merged in until after Directive Injector.
* Misko is thinking through the next steps between here and 1.0, given what we've been learning from the DirectiveInjector work.

# July 7

* Welcome to new AngularDart team member, Rado Kirov!
* Performance change in the works for dependency injection. In our internal CRM product, performance improvement shown 40-200% better in the dart2js version.
* Focusing on mobile download size and performance for Google Fiber team.
* Intern investigating if we can transpile Dart change detection to JS to unify the code base.
* Chirayu landing HTTP coalescing and testability API soon.
* Paul investigating ShadowDOM polyfil performance for non-Chrome browsers. Early results suggest there are performance bugs that need attention.

# June 23

* Protractor
  + We want to do a Dart port of Protractor (not dependent on dart2js) - Naomi to follow up with Julie

# June 16

* Overall priorities this week
  + Making views faster (injector)
  + Better visibility into the system (e.g. expose what part of the digest is slow)
  + Understanding memory usage in apps
* 0.13 and 0.14
  + No 0.13 release this week. We're going to work on visibility and injector first.
  + We'll do a review pass on bugs and PRs later this week to make it clearer what's performance-related and what isn't.
* internal/external code sync: a few skipped commits, everything else (as of Friday) is in sync. The doc changes currently on the staging branch will come into master after the sync.

# June 9

* 0.12 release
  + Chirayu has a blog post ready to go. 0.12 is out.
* We now have two branches for dev:
  + master (for performance fixes only) everything else should go to the staging-v0.14 staging branch
  + @vicb has a set of recent changes against master, should be rebased against 0.14, with the exception of one small performance fix
* Chirayu is working on pre-SHA performance reports -> will go to master branch (performance related)
* Performance Effort
  + Top priority for this week is looking into performance in AngularDart.

# May 19

* Planning to cut a 0.12.0 release this week
  + Breaking changing, already in master
    - fix(compiler): OneWayOneTime bindings now wait for the model to stabilize
    - Zone.defaultOnScheduleMicrotask is now named Zone.onScheduleMircotask
  + Scoped CSS polyfill for support across browsers should land this week
  + Chirayu will write the blog post and cut release
* 1.0 Beta branch: Outstanding items to reach 1.0 beta:
  + ProtractorDart: Need to cover bouncing-balls and a sub-example in animations with Protractor tests
  + bind-\* needs to land in master
  + controller as context
* Working through semantics of bind-\*
  + Currently doesn’t include one-way/one-time bindings
  + Long term, want to get rid of these through making change detection fast enough not to care (support for scenario-specific strategies)
  + Will support the current semantics where the directive gets to specify arity/directionality through annotations
* 0.11.0 -> 1.0 migration plan

We are releasing a “1.0 beta” version soon so that developers can kick the tires and we can see if we’ve missed anything. This version will contain large, breaking, API and syntax changes. They include:

* property binding syntax (prop<=”expression”). ([background](https://docs.google.com/document/d/1L-9bBL-smMrAmxC_pVBdKWKcB-ZlOLTj-jmzAJ2jKeE/edit#heading=h.xgjl2srtytjt))
* “controller as context” ([background](https://github.com/angular/angular.dart/issues/914))
* @Template directive ([background](https://github.com/angular/angular.dart/pull/1003))

To support existing applications, we will continue to release 0.xx versions of Angular and work to integrate the “1.0 beta” features into the 0.xx versions. Once we have all the changes from the “1.0 beta” branch in the 0.xx version, we will declare 1.0 and stop working on 0.xx releases.

Existing apps should continue to upgrade as we release new 0.xx versions.

# May 12

# **Attendees**: Paul, Naomi, Misko

# **Syncing** to google3

# Misko: We have a staging branch. However, we're seeing a problem with using it. The problem is that it keeps the PR open. But folks update the PR along the way. So we go back to having a dev branch and a master

# Chirayu: Yep. We should also rewriting the history of dev to make this convenient.

# Misko: Shouldn't diffs just apply correctly?

# Chirayu: Not when we apply things out of order. AI: Produce an example supporting this requirement.

# **1.0 plan**

# Misko: Lets cut 1.0-beta this week

# Naomi: Should we cut it on Thursday or Friday

# What's needed for 1.0?

# Controllers are the context

# bind- syntax to be consistent with the latest thinking

# **Syncing google3 to 1.0** after it's cut

# Misko: We should probably just let folks know 1.0 is out and have them fix their projects.

# Naomi: we should make an effort to fix people and only then tell people they should work on it – this is James' thinking.

# Misko: it's going to be a pretty big breaking change so it's known that it's going to be a big effort.

# **Naomi**: I will also be away the last week of may

# **AIs**

# 1.0: Reconvene on Thursday to figure out what status and how we're going to cut it.

# Should it be at our desk? Paul doesn't care so we might just do it at our desks.

# **Shadow DOM and CSS**

# Shadow DOM polyfills with CSS styling and transclusion/non-transclusion are not working across browsers properly.

# shim-css – does regex replacements to make stuff work in a browser that doesn't have shadow DOM.

# You have to tag each of the attributes with a prefix that is the name of your component. it's not perfect but it covers most of the cases.

# I can give an example of what happens with/without transclusion and consistent behavior between the two.

# Paul: The problem is that shadow DOM is all or nothing. The polyfill gives this to you. However, if you want to do CSS and want that to work correctly with and without the polyfill, this doesn't work across Chrome vs others.

# Paul can make this work for this case.

# Shadow-less components

# Misko: We can already do that now. So this is good enough.

# Paul – yes, and we can add stuff to that without trouble.

# **Docs**

# Naomi: What else should I prioritize?

# Misko: We should go through the directives individually. We really should have a single pass through every single doc that we have over there and make sure that there is at least some documentation and it's correct. I know that Scope is definitely missing a whole bunch of methods.

# Naomi: Annotations is missing documentation. Maybe we can have a quick pass and see what's undocumented. However, I can't do this easily without seeing the Annotations.

# Misko: Annotations are only on the constructor. All public methods should be documented. Scope does not do this, for example.

# Formatter docs needs a Misko review.

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# May 5

* Chirayu is working on protractor for Dart. Progress is good, feels about 40% done. Brad has someone interested in working with Chirayu on protractor.
* Doc fix for annotations is in, need latest Dart Dev SDK to generate. Naomi to make sure we have latest docviewer and check.
* Naomi is working on getting the new dynamic site for angulardart.org working with Travis.
* Emily has prioritized the docviewer issues and should have most of the critical ones done in about a month.
* Replacing context map with a controller - work should be done this week. Victor is very close to finishing the CL.
* James and Misko have been working on the sync process for internal/github, are pretty much in agreement on versioning tool spec and what needs to be done.
* Misko is digging into bind- syntax this week.

# April 21

* Adding transclusion back (from AngularJS world) so you can write components that don’t rely on ShadowDOM. You’ll be able to choose ShadowDOM or light DOM on a per component basis. You’ll be able to use it through the same API using the <content> tag.
* With applyAuthorStyles going away, we’ve seen teams having to inline styles into all their components. Thinking about building some automatic CSS rewriting support until polyfills are implemented in all browsers. Need to explore how much we could accomplish this.
* Profiled the Dependency Injection and found opportunities to make ViewFactories 2x faster. Now focused on performance improvements on extra digests we find in live apps.
* Adding support for more browsers in our CI build
* Adding support for template/css paths relative to the .dart file where they’re used

# April 14

**Notes**

* google3 sync is becoming a pain point, as more teams internally use Dart and we make breaking changes as we iterate towards 1.0.
  + Need to separate out breaking change versions from non-breaking change versions. Should we move to semver? Misko, James, others to discuss and come to agreement this week.
* M35 update: Chrome 35 broke applyAuthorStyles. Some work done ahead of the change but not everything caught. Most of the issues we have remaining are related to polyfill and new Shadow DOM changes. **Paul** to come up with a blog post that discusses these issues and recommendations.

# March 31

**Notes**

* Discussion on Transformers. Transformers \*should\* be the eventual solution, but the old generators are broken right now which means that in google3 the code generation to get rid of mirrors doesn't / cant work. Setting up barback is hard.
* TODO(Chris / Pete): Make transformers work in google3.
* BrowserSupport - Firefox has bugs in the CI build. What browsers are we going to support? **NO IE9 support.** John Coleman for getting CI support setup for alternate browsers. Dart2JS is crashing because of bugs on firefox.
* Naming consistency in AngularDart - Misko proposal: Remove suffixes. Remove prefix. Exception: Directives that start with ng- can keep the Ng prefix. No specific resolution for Animation.
* Misko is creating a 'nice' list of classes he wants to be visible. Discussed lib/src/ folder for private implementation detail classes.
* Protractor has a couple of additional PR's that have been submitted and merged.
* Tagging compiler is in google3, starting the bind- syntax
* Replacing NgAttr with NgElement (In progress)
* Victor is working on separating flush from digest
* Paul - Pulled off onto component work outside of Angular
* Documentation is getting written.

# March 24

## Notes

* Decided to add transclusion support back to AngularDart to support folks who can’t use ShadowDOM emulation (IE9) or for CSS libraries that haven’t been made with ShadowDOM in mind (Bootstrap, etc.)
* James working on new [on-\*](https://docs.google.com/a/google.com/document/d/1f5VWROeTI2kJwVKbNsrHuEz5IqtZe14OpoxM9fEYJNU/edit#heading=h.k972nqcof3e) and [bind-\*](https://docs.google.com/a/google.com/document/d/1f5VWROeTI2kJwVKbNsrHuEz5IqtZe14OpoxM9fEYJNU/edit#heading=h.5i8lai5znheb) syntax for templates
* Much work on documentation going on.

# March 17

## AIs

* Chirayu demo AngularDart Protractor at next week's meeting.
* James: make the tagging compiler the default by next week. (Will NOT mean a breaking change.)
* Paul: Write some package-level docs on Animations to explain life cycle, when classes are applied, etc... to give high level overview.

## Notes

* High-level discussion. Issues blocking 1.0 launch
  + Protractor for Dart
  + Documentation (API docs, Developer Guide)
  + Smaller download size (Mirrors)
  + New Bind syntax (nice to have because it represents a major breaking change)
* New bind syntax is a big shift in how you think about your angular application (big breaking change). We want this in 1.0 but we also want time to iterate on design with real users. We're going to hold off on deciding on whether to make this 1.0 blocking for now and keep working.
* Chirayu: has a basic port of Protractor working, but still work to do. ShadowDom piece not done.
* Naomi has automation push working for docs. Kathy and Shailen are cracking away on Examples, and doc generation from the set of Examples. Kathy also working on Zones article.
* Paul has finished Animations and published the docs. Is looking into how to implement named animations via CSS.

# March 10

## AIs

* Move the doc sync meeting to just before the AngularDart meeting (naomi)

## Notes

* We have automation in place for updating docs.angulardart.org. Need to verify that docs are auto-generating correctly before closing this out.
* PR from Marko is in review for the new compiler system.
* Misko has been restructuring angular into angular static and angular dynamic to simplify the generation of static code from pub transforms; seeing improvements on the bouncy balls demo and in overall minification, feels he could get it down farther with some more work.
* Chirayu has been working on Protractor for Dart. Is working on automating tests for the examples folder.
* Pavel has fixed the bug affecting dart2js generation around lazy loading. ([Examples in github](https://github.com/pavelgj/angular_deferred_sample))

# February 24, 2013

## AIs

* Write forms demo app and get feedback. (matias)
* Reduce size of dart2js generated app (misko)
* Automate api docs generation and push on every release (naomi)
* Version AngularDart imports for google3 (misko)

## Notes

* New change detection code now in integration testing with the GreenTea app. Looks very close. 30x to 60x faster than previous version.
* Chirayu feels AngularDart internal codelab will be done tomorrow so he can move to working on porting Protractor.
* API docs now on docs.angulardart.org. Naomi will take on automating AngularDart docs push on new releases. Needs stuff from Alan - will be at least another week.
* Doc priorities this week: adding tests to the code samples in the docs, running in Firefox, and reducing sample size/efficiency for dart2js output.
* Misko to work on size of generated Angular apps via Dart2JS.
* Form validation feature is getting close. Matias will build a demo app to show folks what we’ve done and get feedback.
* Pavel feels like he’ll be done with lazy loading code this week and will add to GreenTea to test.
* Do we need SCE for 1.0? This will affect the folks who use bindHTML, but not others. We’ll keep it as a stretch goal for 1.0.
* Need to check in with Victor on progress integrating with Polymer components.
* Looks good to land animations this week!
* We need to fix performance on angulardart.org.

# February 3, 2014

## AIs

* Misko to finish watch/scope changes to allow internal porting
* Misko to schedule time for team to port watch/scope changes to GreenTea app next week

## Notes

* Starting weekly meeting notes!
* Dart team broke our build with a cool feature that they now verify template syntax as part of their verifier. Need to chat with Konstantine about a better way to implement.
* [AngularDart.org](http://angulardart.org) is now live and works well on mobile
* The v0.9.6 release is scheduled for today
* Starting to port the new watcher code into GreenTea app (Google-internal) to verify speed improvement.
  + Scope no longer context for expression evaluation, instead has a reference to context
  + Now have digest and flush phases - flush runs once with DOM write and DOM read queues to burn down to zero
  + Includes new super-fast change detection with Kasper’s fancy new parser
  + Will schedule time for next week
* We want to add 3 engineers to the AngularDart team this year. We’ll publicize this more after Dart Flight School. In general, want to hire folks who have already contributed to AngularDart.