Angular 1.4.0 - jaracimrman-existence

Release Announcement

Angular 1.4.0 has arrived! This version was driven from the outset in November last year. The major features and issues that we worked on were driven from an analysis of the community feedback from places like GitHub comments.

This Angular version is also the first to be handled by a much broader community oriented team including many people from outside of the Google AngularJS team such as Lucas, Martin, Shahar, Pawel and Georgios. They have worked tirelessly week after week to help get this release out. Additionally a number of other members of the community have contributed significant code to this release; they are mentioned below.

# New Features

As well as over 100 commits fixing bugs, Angular 1.4 is packed full of new features - over 30 commits. Here is a rundown of the highlights:

## Accessibility

Marcy Sutton continued to improve the accessibility of apps built with Angular with new features in the **ngAria** module:

* add button role to ngClick ([bb365070](https://github.com/angular/angular.js/commit/bb365070a3ed7c2d26056d378ab6a8ef493b23cc), [#9254](https://github.com/angular/angular.js/issues/9254), [#10318](https://github.com/angular/angular.js/issues/10318))
* add roles to custom inputs ([29cdaee2](https://github.com/angular/angular.js/commit/29cdaee2b6e853bc3f8882a00661698d146ecd18), [#10012](https://github.com/angular/angular.js/issues/10012), [#10318](https://github.com/angular/angular.js/issues/10318))

## Internationalisation

Chirayu has been working hard on improving i18n support for Angular apps. The first piece of this work is to provide a new ngMessageFormat module that support the ICU MessageFormat interpolation syntax.

* extend interpolation with MessageFormat like syntax ([1e58488a](https://github.com/angular/angular.js/commit/1e58488ad65abf7031bab5813523bb9d86dbd28c), [#11152](https://github.com/angular/angular.js/issues/11152))
* Add FIRSTDAYOFWEEK and WEEKENDRANGE properties in the ngLocale data ([3d149c7f](https://github.com/angular/angular.js/commit/3d149c7f20ffabab5a635af9ddcfc7105112ab4a))

## Animation

* **$animate:** complete refactor of internal animation code ([c8700f04](https://github.com/angular/angular.js/commit/c8700f04fb6fb5dc21ac24de8665c0476d6db5ef))
* **$animate:** provide support for animations on elements outside of $rootElement ([e41faaa2](https://github.com/angular/angular.js/commit/e41faaa2a155a42bcc66952497a6f33866878508))

## Filters

* **number filter:** display Infinity symbol when number is Infinity ([51d67742](https://github.com/angular/angular.js/commit/51d6774286202b55ade402ca097e417e70fd546b), [#10421](https://github.com/angular/angular.js/issues/10421))
* **date/time filters:** support conversion to timezone other than UTC ([c6d8512a](https://github.com/angular/angular.js/commit/c6d8512a1d7345516d1bd9a039d81821b9518bff), [#10858](https://github.com/angular/angular.js/issues/10858))
* **limitTo filter:**
  + extend the filter to take a beginning index argument ([aaae3cc4](https://github.com/angular/angular.js/commit/aaae3cc4160417e6dad802ed9d9f6d5471821a87), [#5355](https://github.com/angular/angular.js/issues/5355), [#10899](https://github.com/angular/angular.js/issues/10899))
  + ignore limit when invalid ([a3c3bf33](https://github.com/angular/angular.js/commit/a3c3bf3332e5685dc319c46faef882cb6ac246e1), [#10510](https://github.com/angular/angular.js/issues/10510))
* **filter filter:** compare object with custom toString() to primitive ([f8c42161](https://github.com/angular/angular.js/commit/f8c421617096a8d613f4eb6d0f5b098ee149c029), [#10464](https://github.com/angular/angular.js/issues/10464), [#10548](https://github.com/angular/angular.js/issues/10548))

## $http

* **$http:** provide a config object as an argument to header functions ([d435464c](https://github.com/angular/angular.js/commit/d435464c51d3912f56cfc830d86bfc64a1578327), [#7235](https://github.com/angular/angular.js/issues/7235), [#10622](https://github.com/angular/angular.js/issues/10622))
* **$http:** support custom params serializers ([6c8464ad](https://github.com/angular/angular.js/commit/6c8464ad14dd308349f632245c1a064c9aae242a), [#3740](https://github.com/angular/angular.js/issues/3740), [#7429](https://github.com/angular/angular.js/issues/7429), [#9224](https://github.com/angular/angular.js/issues/9224), [#11461](https://github.com/angular/angular.js/issues/11461))

## Compiler related

* **$compile:** allow using bindToController as object, support both new/isolate scopes ([35498d70](https://github.com/angular/angular.js/commit/35498d7045ba9138016464a344e2c145ce5264c1), [#10420](https://github.com/angular/angular.js/issues/10420), [#10467](https://github.com/angular/angular.js/issues/10467))

## Form Related

* **ngMessages:** provide support for dynamic message resolution ([c9a4421f](https://github.com/angular/angular.js/commit/c9a4421fc3c97448527eadef1f42eb2f487ec2e0), [#10036](https://github.com/angular/angular.js/issues/10036), [#9338](https://github.com/angular/angular.js/issues/9338))
* **ngOptions:** add support for disabling an option ([da9eac86](https://github.com/angular/angular.js/commit/da9eac8660343b1cd9fdcf9d2d1bda06067142d7), [#638](https://github.com/angular/angular.js/issues/638), [#11017](https://github.com/angular/angular.js/issues/11017))
* **ngModel:** support conversion to timezone other than UTC ([0413bee8](https://github.com/angular/angular.js/commit/0413bee8cc563a6555f8d42d5f183f6fbefc7350), [#11005](https://github.com/angular/angular.js/issues/11005))

## Cookies

* **$cookies:**
  + allow passing cookie options ([92c366d2](https://github.com/angular/angular.js/commit/92c366d205da36ec26502aded23db71a6473dad7), [#8324](https://github.com/angular/angular.js/issues/8324), [#3988](https://github.com/angular/angular.js/issues/3988), [#1786](https://github.com/angular/angular.js/issues/1786), [#950](https://github.com/angular/angular.js/issues/950))
  + move logic into $cookies and deprecate $cookieStore ([38fbe3ee](https://github.com/angular/angular.js/commit/38fbe3ee8370fc449b82d80df07b5c2ed2cd5fbe), [#6411](https://github.com/angular/angular.js/issues/6411), [#7631](https://github.com/angular/angular.js/issues/7631))
* **$cookiesProvider:** provide path, domain, expires and secure options ([53c66369](https://github.com/angular/angular.js/commit/53c663699126815eabc2a3bc1e3bafc8b3874268))

## JQuery related

* **ng-jq:** adds the ability to force jqLite or a specific jQuery version ([09ee82d8](https://github.com/angular/angular.js/commit/09ee82d84dcbea4a6e8d85903af82dcd087a78a7))

## Testing

* **ngMock/$exceptionHandler:** log errors when rethrowing ([deb3cb4d](https://github.com/angular/angular.js/commit/deb3cb4daef0054457bd9fb8995829fff0e8f1e4), [#10540](https://github.com/angular/angular.js/issues/10540), [#10564](https://github.com/angular/angular.js/issues/10564))
* **ngMocks:**
  + cleanup $inject annotations after each test ([0baa17a3](https://github.com/angular/angular.js/commit/0baa17a3b7ad2b242df2b277b81cebdf75b04287) & [6ec59460](https://github.com/angular/angular.js/commit/6ec5946094ee92b820bbacc886fa2367715e60b4))
  + allow mock $controller service to set up controller bindings ([d02d0585](https://github.com/angular/angular.js/commit/d02d0585a086ecd2e1de628218b5a6d85c8fc7bd), [#9425](https://github.com/angular/angular.js/issues/9425), [#11239](https://github.com/angular/angular.js/issues/11239))
  + add they helpers for testing multiple specs ([e650c458](https://github.com/angular/angular.js/commit/e650c45894abe6314a806e6b3e32c908df5c00fd), [#10864](https://github.com/angular/angular.js/issues/10864))
* **travis:** run unit tests on iOS 8 ([2cdb2016](https://github.com/angular/angular.js/commit/2cdb2016b9d89abfb5ab988b67d5f26f3bf21908), [#11479](https://github.com/angular/angular.js/issues/11479))

## Deployment

* **CommonJS:** - angular modules are now packaged for npm with helpful exports

## Miscellaneous

* **angular.merge:** provide an alternative to angular.extend that merges 'deeply' ([c0498d45](https://github.com/angular/angular.js/commit/c0498d45feb913c318224ea70b5adf7112df6bac), [#10507](https://github.com/angular/angular.js/issues/10507), [#10519](https://github.com/angular/angular.js/issues/10519))
* **angular.Module:** add decorator method ([e57138d7](https://github.com/angular/angular.js/commit/e57138d7eff1210f99238c475fff57530bf0ab19), [#11305](https://github.com/angular/angular.js/issues/11305), [#11300](https://github.com/angular/angular.js/issues/11300))
* **$anchorScroll:** allow scrolling to a specified element ([731c8b5e](https://github.com/angular/angular.js/commit/731c8b5e2d01a44aa91f967f1a6acbadb8005a8b), [#4568](https://github.com/angular/angular.js/issues/4568), [#9596](https://github.com/angular/angular.js/issues/9596))
* **ngClass:** add support for conditional map within an array. ([4588e627](https://github.com/angular/angular.js/commit/4588e627bb7238b2113241919b948d0e5166c76d), [#4807](https://github.com/angular/angular.js/issues/4807))
* **$timeout:**
  + allow fn to be an optional parameter ([5a603023](https://github.com/angular/angular.js/commit/5a60302389162c6ef45f311c1aaa65a00d538c66), [#9176](https://github.com/angular/angular.js/issues/9176))
  + pass additional arguments to the callback ([3a4b6b83](https://github.com/angular/angular.js/commit/3a4b6b83efdb8051e5c4803c0892c19ceb2cba50), [#10631](https://github.com/angular/angular.js/issues/10631))
* **$interval:** pass additional arguments to the callback ([4f1f9cfd](https://github.com/angular/angular.js/commit/4f1f9cfdb721cf308ca1162b2227836dc1d28388), [#10632](https://github.com/angular/angular.js/issues/10632))

## ngResource

* **$resource:** include request context in error message ([266bc652](https://github.com/angular/angular.js/commit/266bc6520ba4d188dbc949643def102604f98905), [#11363](https://github.com/angular/angular.js/issues/11363))

# Performance Improvements

* **$parse** new and more performant parser ([0d42426](https://github.com/angular/angular.js/commit/0d424263ead16635afb582affab2b147f8e71626))
* **Scope:**
  + remove history event handler when app is torn down ([d996305b](https://github.com/angular/angular.js/commit/d996305b4470f80fbb1cbddf54b7d10ffbb6ab47), [#9897](https://github.com/angular/angular.js/issues/9897), [#9905](https://github.com/angular/angular.js/issues/9905))
  + add a property $$watchersCount to scope ([c1500ea7](https://github.com/angular/angular.js/commit/c1500ea775c4cb130088b7d5bb5fb872bda50bae))
* **benchmark:** add ngmodel benchmarks to largetable-bp ([b8dbdb0c](https://github.com/angular/angular.js/commit/b8dbdb0c5e2cd176c6d94d60f781cfc02e646592), [#11082](https://github.com/angular/angular.js/issues/11082))
* **$compile:**
  + replace forEach(controller) with plain loops ([5b522867](https://github.com/angular/angular.js/commit/5b5228675f67c8f5e04c7183c3ef5e71cb2bf08b), [#11084](https://github.com/angular/angular.js/issues/11084))
  + avoid .data when fetching required controllers ([fa0aa839](https://github.com/angular/angular.js/commit/fa0aa83937378cf8fc720c38bcc5c78fc923624e))
* **ngOptions:**
  + only perform deep equality check on ngModel if using track by ([171b9f7f](https://github.com/angular/angular.js/commit/171b9f7f2339ef9047b8526b2c3f36bb58d14feb), [#11448](https://github.com/angular/angular.js/issues/11448), [#11447](https://github.com/angular/angular.js/issues/11447))
  + only watch labels if a display expression is specified ([51faaffd](https://github.com/angular/angular.js/commit/51faaffdbcc734c55d52ff6c42b386d5c90207ea))