

PRs addressed in flutter/flutter between

b593f5167bce84fb3cad5c258477bf3abc1b14eb

and d51fd86

framework - 235 PRs

[#21896](#) Bottom sheet scrolling

[#28834](#) Sliver animated list

[#29188](#) Fix 25807: implement move in sliver multibox widget

[#29677](#) Fix calculation of hero rectTween when Navigator isn't fullscreen

[#29683](#) Show/hide toolbar and handles based on device kind

[#29809](#) Fix text selection toolbar appearing under obstructions

[#29824](#) Cupertino localization step 8: create a gen_cupertino_localizations and generate one for cupertino english and french

[#29954](#) Cupertino localization step 9: add tests

[#30040](#) Implement focus traversal for desktop platforms, shoehorn edition.

[#30076](#) Implements FocusTraversalPolicy and DefaultFocusTraversal features.

[#30129](#) Fix refresh control in the gallery demo, update comments

[#30224](#) Cupertino localization step 10: update the flutter_localizations README

[#30339](#) Add buttons to gestures

[#30388](#) Add hintStyle in SearchDelegate

[#30406](#) Add binaryMessenger constructor argument to platform channels

[#30572](#) [Material] Adaptive Slider constructor

[#30579](#) PointerDownEvent and PointerMoveEvent default buttons to 1

[#30612](#) Added required parameters to FlexibleSpaceBarSettings

[#30796](#) Unbounded TextField width error

[#30874](#) Redo "Remove pressure customization from some pointer events"

[#30884](#) [Material] Update TabController to support dynamic Tabs

[#30942](#) rectMoreOrLess equals, prep for 64bit rects

[#30979](#) fix issue 30526: rounding error

[#30983](#) Refactor core uses of FlutterError.

[#30988](#) Tight Paragraph Width

[#31018](#) [Material] selected/unselected label styles + icon themes on BottomNavigationBar

[#31025](#) added `scrimColor` property in Scaffold widget

[#31093](#) Make the matchesGoldenFile docs link to an explanation of how to create golden image files

[#31095](#) Add buttons customization to WidgetController and related testing classes

[#31097](#) Fix text field selection toolbar under Opacity

[#31227](#) Adding CupertinoTabController

[#31228](#) Fix ExpansionPanelList Duplicate Global Keys Exception

[#31275](#) Update SnackBar to allow for support of the new style from Material spec

[#31291](#) Add some docs to StatefulBuilder

[#31294](#) Improve Radio Documentation with Example

[#31295](#) Improve ThemeData.accentColor connection to secondary color

[#31316](#) Add InkWell docs on transitions and ink splash clipping

[#31317](#) Add docs to AppBar

[#31318](#) Add BottomSheetTheme to enable theming color, elevation, shape of BottomSheet

[#31326](#) Add more shuffle cupertino icons

[#31332](#) iOS selection handles are invisible

[#31333](#) Clean up flutter_test/test/controller_test.dart

[#31420](#) Add more breadcrumb docs to Transformation

[#31421](#) Add Widget of the Week video to SizedBox

[#31438](#) Implements focus handling and hover for Material buttons.

[#31464](#) CupertinoPicker fidelity revision

[#31485](#) Prevent exception being thrown on hasScrolledBody

[#31493](#) Keycode generation doc fix

[#31497](#) Revert "Fix 25807: implement move for sliver multibox widget (#29188)"

[#31502](#) Improve Tabs documentation

[#31514](#) Date picker layout exceptions

[#31520](#) Don't add empty OpacityLayer to the engine

[#31538](#) Fix typo in docs

[#31566](#) TimePicker moves to minute mode after hour selection

[#31568](#) fix transform assert

[#31574](#) Improve RadioListTile Callback Behavior Consistency

[#31581](#) Fix Exception on Nested TabBarView disposal

[#31600](#) Re-enable const

[#31619](#) Fix the documentation for `UIKitView#creationParams`

[#31623](#) fix edge swiping and dropping back at starting point

[#31634](#) Improve canvas example in sample dart ui app

[#31644](#) Cupertino localization step 12: push translation for all supported languages

[#31662](#) added shape property to `SliverAppBar`

[#31681](#) [Material] Create a themable Range Slider (continuous and discrete)

[#31687](#) Center iOS caret, remove constant offsets that do not scale

[#31693](#) Adds a note to `Radio's/RadioListTile's` `onChange`

[#31696](#) Attempt to reduce usage of `runtimeType`

[#31699](#) Re-land: Add support for Tooltip hover

[#31701](#) Add more asserts to check matrix validity

[#31761](#) Support `clipBehavior` changes in hot reload

[#31763](#) Fix `ScrollbarPainter` `thumbExtent` calculation and add padding

[#31798](#) Fix tab indentation

[#31802](#) Reland "Fix text field selection toolbar under Opacity (#31097)"

[#31804](#) only build asset when there is asset declared in pubspec

[#31819](#) Redo: Add buttons to gestures

[#31822](#) remove unnecessary artificial delay in catalog example

[#31824](#) fix `FlutterDriver` timeout

[#31832](#) Allow DSS to be dragged when its children do not fill extent

[#31851](#) Add documentation to Navigator

[#31852](#) Text selection handles are sometimes not interactive

[#31861](#) Add Horizontal Padding to Constrained Chip Label Calculations

[#31890](#) apply fp hack to Flex

[#31894](#) Introduce separate `HitTestResults` for Box and Sliver

[#31902](#) Updated `primaryColor` docs to refer to `colorScheme` properties

[#31903](#) Extract TODO comment from `Image.asset` dardoc

[#31909](#) Change unfocus to unfocus the entire chain, not just the primary focus

[#31929](#) Sample Code & Animation for Flow Widget

[#31935](#) Redo#2: Add buttons to gestures

[#31938](#) Update scrimDrawerColor with proper const format

[#31987](#) Text wrap width

[#32013](#) Cupertino Turkish Translation

[#32025](#) Make Hover Listener respect transforms

[#32041](#) Remove deprecated decodedCacheRatioCap

[#32053](#) Increase TimePicker touch targets

[#32059](#) fix issue 14014 read only text field

[#32070](#) rename foreground and background to light and dark

[#32086](#) Fix CupertinoSliverRefreshControl onRefresh callback

[#32142](#) Fix RenderPointerListener so that callbacks aren't called at the wrong time.

[#32147](#) Added state management docs/sample to SwitchListTile

[#32177](#) Tab Animation Sample Video

[#32192](#) Transform PointerEvents to the local coordinate system of the event receiver

[#32328](#) Add breadcrumbs to TextOverflow

[#32340](#) make immutables const

[#32360](#) Allow flutter web to be compiled with flutter

[#32380](#) const everything in Driver

[#32408](#) More const conversions

[#32410](#) Add ancestor and descendant finders to Driver

[#32434](#) Support for replacing the TabController, after disposing the old one

[#32437](#) Add assert that the root widget has been attached.

[#32444](#) Updated some links

[#32469](#) Let CupertinoNavigationBarBackButton take a custom onPressed

[#32487](#) Add a more meaningful message to the assertion on children

[#32527](#) Added 'enabled' property to the PopupMenuButton

[#32528](#) Tapping a modal bottom sheet should not dismiss it by default

[#32530](#) Add Actions to AppBar Sample Doc

[#32620](#) Added ScrollController to TextField

[#32638](#) Fix apidocs in _WidgetsAppState.basicLocaleListResolution

[#32641](#) Updating dart.dev related links

[#32654](#) Tabs code/doc cleanup

[#32686](#) enable lint prefer_null_aware_operators

[#32703](#) Add Doc Samples For CheckBoxLayoutTile, RadioListTile and SwitchListTile

[#32711](#) use null aware operators

[#32726](#) Material should not prevent ScrollNotifications from bubbling upwards

[#32730](#) Add reverseDuration to AnimationController

[#32776](#) Text field focus and hover support.

[#32823](#) Add enableInteractiveSelection to CupertinoTextField

[#32838](#) Handles hidden by keyboard

[#32842](#) Allow "from" hero state to survive hero animation in a push transition

[#32843](#) Added a missing dispose of an AnimationController that was leaking a ticker.

[#32853](#) Add onBytesReceived callback to consolidateHttpClientResponseBytes()

[#32857](#) Add debugNetworkImageHttpClientProvider

[#32904](#) Use reverseDuration on Tooltip and InkWell

[#32909](#) Documentation fix for debugProfileBuildsEnabled

[#32911](#) Material Long Press Text Handle Flash

[#32914](#) Make hover and focus not respond when buttons and fields are disabled.

[#32936](#) Add some sanity to the ImageStream listener API

[#32974](#) Fix disabled CupertinoTextField style

[#33058](#) Add more missing returns

[#33073](#) SliverAppBar shape property

[#33080](#) Fixed several issues with confirmDismiss handling on the LeaveBehindItem demo.

[#33090](#) [Material] Add support for hovered, pressed, and focused text color on Buttons.

[#33148](#) ExpandIcon Custom Colors

[#33152](#) ModalRoute resumes previous focus on didPopNext

[#33164](#) remove Layer.replaceWith due to no usage and no tests

[#33195](#) Slight clarification in the ImageCache docs

[#33226](#) Explain hairline rendering in BorderSide.width docs

[#33230](#) Framework support for font features in text styles

[#33260](#) Pass an async callback to testWidgets.

[#33279](#) Fix a problem in first focus determination.

[#33298](#) Add actions and keyboard shortcut map support

[#33361](#) (trivial) Rename test file

[#33369](#) Add loading support to Image

[#33370](#) Update FadeInImage to use new Image APIs

[#33406](#) Add web safe indirection to Platform.isPlatform getters

[#33431](#) Expose service client and app isolate in driver

[#33442](#) fix GridView documentation

[#33461](#) Various code cleanup improvements

[#33462](#) Fix text scaling of strut style

[#33467](#) fixed 33347 fill the gap during performLayout in SliverGrid and Slive...

[#33473](#) fix 23723 rounding error

[#33474](#) Fixed for DropdownButton crashing when a style was used that didn't include a fontSize

[#33475](#) Move declaration of semantic handlers from detectors to recognizers

[#33477](#) Fix onExit calling when the mouse is removed.

[#33488](#) use toFixedAsString and DoubleProperty in diagnosticProperties

[#33489](#) Remove empty file

[#33531](#) Fixed broken link in debugProfileBuildsEnabled documentation

[#33535](#) Custom height parameters for DataTable header and data rows

[#33620](#) Document that offsets are returned in logical pixels

[#33627](#) SliverFillRemaining flag for different use cases

[#33628](#) DataTable Custom Horizontal Padding

[#33632](#) Update the keycodes from source

[#33634](#) Let there be scroll bars

[#33653](#) Include advice about dispose in TextEditingController api

[#33662](#) Prep for engine roll

[#33663](#) Use conditional imports for flutter foundation libraries

[#33665](#) [Trivial] Move dropdownValue into State in DropdownButton sample docs

[#33674](#) Add documentation to ImplicitlyAnimatedWidgetState

[#33695](#) Add pseudo-key synonyms for keys like shift, meta, alt, and control.

[#33729](#) Update consolidateHttpClientResponseBytes() to use compressionState

[#33739](#) fixed cupertinoTextField placeholder textAlign

[#33794](#) Text inline widgets, TextSpan rework

[#33802](#) Double double tap toggles instead of error

[#33805](#) Fixing duplicate golden test names

[#33808](#) fix ExpansionPanelList merge the header semantics when it is not nece...

[#33814](#) Added a benchmark for ImageCache

[#33842](#) Don't print warning message when running benchmarks test.

[#33865](#) Correct version name for BottomNavigationBar golden test

[#33868](#) Game controller button support

[#33876](#) Reland "Framework support for font features in text styles"

[#33880](#) Splitting golden file versioning out as an argument of matchesGoldenFile

[#33886](#) Add currentSystemFrameTimeStamp to SchedulerBinding

[#33901](#) Respond to AndroidView focus events.

[#33917](#) 'the the' doc fix

[#33946](#) Reland "Text inline widgets, TextSpan rework"

[#33955](#) Add localFocalPoint to ScaleDetector

[#33996](#) Remove unused/dead code from WidgetInspector

[#33999](#) Updating MediaQuery with viewPadding

[#34012](#) Extract DiagnosticsNode serializer from WidgetInspector

[#34057](#) Add endIndent property to Divider and VerticalDivider

[#34068](#) fix empty selection arrow when double clicked on empty read only text...

[#34073](#) Dartdoc Generation README Improvements

[#34112](#) Separate web and io implementations of network image

[#34137](#) Added tool sample for PageController

[#34175](#) Don't show scrollbar if there isn't enough content

[#34243](#) update the Flutter.Frame event to use new engine APIs

[#34285](#) fix Applying decoration for a table row widget will cause render exce...

[#34298](#) Preserving SafeArea : Part 2

[#34355](#) Text field vertical align

[#34365](#) redux of a change to use new engine APIs for Flutter.Frame events

[#34368](#) Fix semantics_tester

[#34388](#) Change API doc link to api.dart.dev

[#34417](#) Include raw value in Diagnostics json for basic types

[#34424](#) SizedBox documentation minor update

[#34434](#) Semantics fixes

[#34440](#) Add Driver command to get diagnostics tree

[#34474](#) Release diagnostics

[#34501](#) [Material] Fix TextDirection and selected thumb for RangeSliderThumbShape and RangeSliderValueIndicatorShape

[#34508](#) add route information to Flutter.Navigation events

[#34512](#) Make sure fab semantics end up on top

[#34515](#) OutlineInputBorder adjusts for borderRadius that is too large

[#34519](#) fix page scroll position rounding error

[#34587](#) Do not copy paths, rects, and rrects when layer offset is zero

[#34597](#) [Material] Update slider gallery demo, including range slider

[#34664](#) Adjust defaults in docs to match new defaults in code.

[#34679](#) Fix-up code sample for TweenSequence

[#34683](#) add read only semantics flag

[#34684](#) Add more structure to errors.

[#34758](#) Added some Widgets of the Week Videos to documentation

[#34859](#) Fix Vertical Alignment Regression

[#34863](#) Prepare for HttpClientResponse Uint8List SDK change

[#34869](#) [Material] Properly call onChangeStart and onChangeEnd in Range Slider

[#34870](#) Add test case for Flutter Issue #27677 as a benchmark.

[#34919](#) Remove duplicate error parts

[#34932](#) Added onChanged property to TextFormField

[#35046](#) Add generated Icon diagram to api docs

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[#28808](#) updated tearDownAll function

[#31028](#) Adds support for generating projects that use AndroidX support libraries

[#31039](#) Fix bundle id on iOS launch using flutter run

[#31282](#) Stop precaching the artifacts for dynamic mode.

[#31329](#) Add Xcode build script for macOS target

[#31342](#) check if project exists before regenerating platform specific tooling

[#31359](#) Remove support for building dynamic patches on Android

[#31399](#) add ignorable track-widget-creation flag to build aot

[#31400](#) add printError messages and tool exit to android device

[#31404](#) throw toolExit instead of rethrowing on filesystem exceptions

[#31406](#) if there is no .ios or ios sub-project, don't attempt building for iOS

[#31419](#) Add a note about events coming from the server

[#31446](#) Allow filtering devices to only those supported by current project

[#31491](#) Allow adb stdout to contain the port number without failing

[#31515](#) Support local engine and asset sync for macOS

[#31526](#) replace no-op log reader with real implementation

[#31591](#) make sure we exit early if the Runner.xcodeproj file is missing

[#31631](#) Teach Linux to use local engine

[#31736](#) update packages and unpin build

[#31757](#) Make FlutterProject factories synchronous

[#31759](#) Remove deprecated commands

[#31765](#) Initial sketch of tools testbed

[#31798](#) Fix tab indentation

[#31804](#) only build asset when there is asset declared in pubspec

[#31807](#) Make const available for classes that override AssetBundle

[#31812](#) Fix #31764: Show appropriate error message when fonts pubspec.yaml isn't iterable

[#31825](#) Fix missing return statements on function literals

[#31835](#) Cherry-pick ADB CrOS fix to beta

[#31850](#) Make Gradle error message more specific

[#31868](#) Handle notification errors

[#31873](#) Add basic desktop linux checks

[#31889](#) Start abstracting platform logic builds behind a shared interface

[#31895](#) Report CompileTime metric in flutter build aot --report-timings.

[#32060](#) make hotfix use a plus instead of minus

[#32071](#) [flutter_tool] In 'attach' use platform dill etc from the Fuchsia SDK

[#32072](#) don't NPE with empty pubspec

[#32126](#) Bump multicast_dns version

[#32335](#) Teach flutter msbuild for Windows

[#32360](#) Allow flutter web to be compiled with flutter

[#32404](#) Comment out .vscode/ in gitignore for templates

[#32444](#) Updated some links

[#32503](#) Add more missing returns

[#32787](#) Support 32 and 64 bit

[#32849](#) [flutter_tool] Adds support for 'run' for Fuchsia devices

[#33041](#) Rename `flutter packages to flutter pub`

[#33078](#) don't send crash reports if on a user branch

[#33146](#) [flutter_tool] Don't look for Fuchsia artifacts on Windows

[#33191](#) Remove colon from Gradle task name since it's deprecated

[#33197](#) Wire up hot restart and incremental rebuilds for web

[#33225](#) Reland "Clean up some flutter_tools tests and roll dependencies"

[#33228](#) Make Paths absolute in settings.gradle

[#33263](#) [flutter_tool] Improve Fuchsia 'run' tests

[#33264](#) Add local overrides to testbed and provide more defaults

[#33271](#) No longer necessary with ddc fix

[#33272](#) Add mustRunAfter on mergeAssets task to force task ordering

[#33277](#) Implement macOS support in `flutter doctor`

[#33282](#) [flutter_tool] Use product runner in Fuchsia release build

[#33283](#) Fix relative paths and snapshot logic in tool

[#33284](#) make sure we build test targets too

[#33297](#) Instrument add to app flows

[#33374](#) Devfs cleanup and testing

[#33443](#) Wrap Windows build invocation in a batch script

[#33448](#) Use vswhere to find Visual Studio

[#33450](#) Do not return null from losProject.isSwift

[#33454](#) ensure unpack declares required artifacts

[#33458](#) Add to app measurement

[#33466](#) [flutter_tool] Misc. fixes for Fuchsia

[#33472](#) add daemon command to enumerate supported platforms

[#33525](#) Add capability to flutter test --platform=chrome

[#33526](#) Update Fuchsia SDK

[#33533](#) Reland - Wire up hot restart and incremental rebuilds for web

[#33540](#) Pass local engine variables to Windows build

[#33608](#) Restructure macOS project files

[#33611](#) Use Dart's new direct ELF generator to package AOT blobs as shared libraries in Android APKs

[#33629](#) Add real-er restart for web using webkit inspection protocol

[#33636](#) Implement plugin tooling support for macOS

[#33676](#) Removing old golden checkout for integration test

[#33684](#) Disable CocoaPods input and output paths in Xcode build phase and adopt new Xcode build system

[#33696](#) Generate ELF shared libraries and allow multi-abi libs in APKs and App bundles

[#33846](#) [flutter_tool] Fix 'q' for Fuchsia profile/debug mode

[#33852](#) Disable CocoaPods input and output paths in Xcode build phase and adopt new Xcode build system

[#33859](#) Reland support flutter test on platform chrome

[#33867](#) Remove environment variable guards for command line desktop and web

[#33872](#) Add 'doctor' support for Windows

[#33874](#) Prevent windows web doctor from launching chrome

[#33892](#) add benchmarks to track web size

[#33923](#) [flutter_tool] Track APK sha calculation time

[#33924](#) Added --dart-flags option to flutter run

[#33951](#) Whitelist adb.exe heap corruption exit code.

[#33956](#) Codegen an entrypoint for flutter web applications

[#33980](#) Increase daemon protocol version for getSupportedPlatforms

[#33990](#) Add device category for daemon

[#34018](#) Add flutter create for the web

[#34050](#) limit open files on macOS when copying assets

[#34066](#) Adds the androidX flag to a modules pubspec.yaml template so it is se...

[#34074](#) add analytics fields for attached device os version & run mode

[#34081](#) Report async callback errors that currently go unreported.

[#34084](#) make running on web spooky

[#34090](#) More verification on flutter build web, add tests and cleanup

[#34112](#) Separate web and io implementations of network image

[#34123](#) Generate ELF shared libraries and allow multi-abi libs in APKs and App bundles

[#34159](#) Use product define for flutter web and remove extra asset server

[#34162](#) Update the Fuchsia SDK

[#34181](#) Reland "Added --dart-flags option to flutter run (#33924)"

[#34189](#) Instrument usage of include_flutter.groovy and xcode_backend.sh

[#34255](#) [flutter_tool] Don't truncate verbose logs from _flutter.listViews

[#34276](#) [flutter_tool,fuchsia] Prefetch tiles when starting an app

[#34282](#) Split gradle_plugin_test.dart

[#34288](#) Report commands that resulted in success or failure

[#34291](#) Check whether FLUTTER_ROOT and FLUTTER_ROOT/bin are writable.

[#34293](#) Change Xcode developmentRegion to 'en' and CFBundleDevelopmentRegion to DEVELOPMENT_LANGUAGE

[#34295](#) Prepare for Uint8List SDK breaking changes

[#34353](#) Refactor Gradle plugin

[#34369](#) Remove unused flag `--target-platform` from `flutter run`

[#34376](#) Add missing pieces for 'driver' support on macOS

[#34447](#) [flutter_tool,fuchsia] Update the install flow for packaging migration.

[#34460](#) Add back ability to override the local engine in Gradle

[#34517](#) pass .packages path to snapshot invocation

[#34526](#) retry on HttpException during cache download

[#34527](#) Don't crash on invalid .packages file

[#34529](#) Remove compilation trace and dynamic support code

[#34573](#) Ensures flutter jar is added to all build types on plugin projects

[#34584](#) fix a typo

[#34589](#) Remove most of the target logic for build web, cleanup rules

[#34606](#) Remove portions of the Gradle script related to dynamic patching

[#34616](#) Kill compiler process when test does not exit cleanly

[#34624](#) Break down flutter doctor validations and results

[#34685](#) Close platform when tests are complete (dispose compiler and delete font files)

[#34686](#) unpin build daemon and roll dependencies

[#34725](#) Fix NPE in flutter tools

[#34736](#) Remove flags related to dynamic patching

[#34755](#) Add linux doctor implementation

[#34785](#) Tweak the display name of emulators

[#34794](#) Add `emulatorID` field to devices in daemon

[#34802](#) Prefer ephemeral devices from command line run

[#34856](#) set device name to Chrome

[#34885](#) Reland: rename web device

[#35074](#) Attempt to enable tool coverage redux

[#35084](#) Move findTargetDevices to DeviceManager

[#35092](#) Add FlutterProjectFactory so that it can be overridden internally.

f: material design - 76 PRs

[#21896](#) Bottom sheet scrolling

[#29188](#) Fix 25807: implement move in sliver multibox widget

[#29809](#) Fix text selection toolbar appearing under obstructions

[#30388](#) Add hintStyle in SearchDelegate

[#30572](#) [Material] Adaptive Slider constructor

[#30612](#) Added required parameters to FlexibleSpaceBarSettings

[#30796](#) Unbounded TextField width error

[#30884](#) [Material] Update TabController to support dynamic Tabs

[#30942](#) rectMoreOrLess equals, prep for 64bit rects

[#31018](#) [Material] selected/unselected label styles + icon themes on BottomNavigationBar

[#31025](#) added `scrimColor` property in Scaffold widget

[#31228](#) Fix ExpansionPanellist Duplicate Global Keys Exception

[#31275](#) Update SnackBar to allow for support of the new style from Material spec

[#31294](#) Improve Radio Documentation with Example

[#31295](#) Improve ThemeData.accentColor connection to secondary color

[#31316](#) Add InkWell docs on transitions and ink splash clipping

[#31317](#) Add docs to AppBar

[#31318](#) Add BottomSheetTheme to enable theming color, elevation, shape of BottomSheet

[#31438](#) Implements focus handling and hover for Material buttons.

[#31502](#) Improve Tabs documentation

[#31514](#) Date picker layout exceptions

[#31538](#) Fix typo in docs

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[#31699](#) Re-land: Add support for Tooltip hover

[#31763](#) Fix ScrollbarPainter thumbExtent calculation and add padding

[#31852](#) Text selection handles are sometimes not interactive

[#31861](#) Add Horizontal Padding to Constrained Chip Label Calculations

[#31902](#) Updated primaryColor docs to refer to colorScheme properties

[#31938](#) Update scrimDrawerColor with proper const format

[#32053](#) Increase TimePicker touch targets

[#32147](#) Added state management docs/sample to SwitchListTile

[#32177](#) Tab Animation Sample Video

[#32434](#) Support for replacing the TabController, after disposing the old one

[#32527](#) Added 'enabled' property to the PopupMenuButton

[#32528](#) Tapping a modal bottom sheet should not dismiss it by default

[#32530](#) Add Actions to AppBar Sample Doc

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[#32703](#) Add Doc Samples For CheckboxListTile, RadioListTile and SwitchListTile

[#32726](#) Material should not prevent ScrollNotifications from bubbling upwards

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[#32843](#) Added a missing dispose of an AnimationController that was leaking a ticker.

[#32904](#) Use reverseDuration on Tooltip and InkWell

[#32911](#) Material Long Press Text Handle Flash

[#32914](#) Make hover and focus not respond when buttons and fields are disabled.

[#32950](#) Material allows "select all" when not collapsed

[#33073](#) SliverAppBar shape property

[#33080](#) Fixed several issues with confirmDismiss handling on the LeaveBehindItem demo.

[#33090](#) [Material] Add support for hovered, pressed, and focused text color on Buttons.

[#33148](#) ExpandIcon Custom Colors

[#33361](#) (trivial) Rename test file

[#33474](#) Fixed for DropdownButton crashing when a style was used that didn't include a fontSize

[#33535](#) Custom height parameters for DataTable header and data rows

[#33628](#) DataTable Custom Horizontal Padding

[#33634](#) Let there be scroll bars

[#33653](#) Include advice about dispose in TextEditingController api

[#33665](#) [Trivial] Move dropdownValue into State in DropdownButton sample docs

[#33802](#) Double double tap toggles instead of error

[#33808](#) fix ExpansionPanelList merge the header semantics when it is not nece...

[#33865](#) Correct version name for BottomNavigationBar golden test

[#34055](#) Toggle toolbar exception fix

[#34057](#) Add endIndent property to Divider and VerticalDivider

[#34355](#) Text field vertical align

[#34501](#) [Material] Fix TextDirection and selected thumb for RangeSliderThumbShape and RangeSliderValueIndicatorShape

[#34515](#) OutlineInputBorder adjusts for borderRadius that is too large

[#34597](#) [Material] Update slider gallery demo, including range slider

[#34859](#) Fix Vertical Alignment Regression

[#34869](#) [Material] Properly call onChangeStart and onChangeEnd in Range Slider

[#34932](#) Added onChanged property to TextFormField

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[#30942](#) rectMoreOrLess equals, prep for 64bit rects

[#31333](#) Clean up flutter_test/test/controller_test.dart

[#31452](#) Remove engine tests

[#32070](#) rename foreground and background to light and dark

[#32437](#) Add assert that the root widget has been attached.

[#33349](#) Compatibility pass on flutter/foundation tests for JavaScript compilation. (1)

[#33350](#) Compatibility pass on flutter/scheduler tests for JavaScript compilation. (2)

[#33352](#) Compatibility pass on flutter/painting tests for JavaScript compilation. (3)

[#33354](#) Compatibility pass on flutter/services tests for JavaScript compilation. (4)

[#33355](#) Compatibility pass on flutter/rendering tests for JavaScript compilation. (5)

[#33359](#) Compatibility pass on flutter/physics tests for JavaScript compilation. (6)

[#33360](#) Compatibility pass on flutter/semantics tests for JavaScript compilation. (7)

[#33361](#) (trivial) Rename test file

[#33377](#) Compatibility pass on flutter/widgets tests for JavaScript compilation. (8)

[#33378](#) Compatibility pass on flutter/material tests for JavaScript compilation. (9)

[#33406](#) Add web safe indirection to Platform.isPlatform getters

[#33459](#) make sure version check includes hotfixes

[#33676](#) Removing old golden checkout for integration test

[#33786](#) Add a real-er web restart, doctor, workflow

[#33805](#) Fixing duplicate golden test names

[#33842](#) Don't print warning message when running benchmarks test.

[#33865](#) Correct version name for BottomNavigationBar golden test

[#33880](#) Splitting golden file versioning out as an argument of matchesGoldenFile

[#33932](#) More removing of timeouts.

[#34012](#) Extract DiagnosticsNode serializer from WidgetInspector

[#34017](#) Skip web test on crazy import

[#34032](#) Enable web foundation tests

[#34054](#) Make it easier to pass local engine flags when running devicelab tests

[#34199](#) make sure this test doesn't run for real

[#34368](#) Fix semantics_tester

[#34417](#) Include raw value in Diagnostics json for basic types

[#34440](#) Add Driver command to get diagnostics tree

[#34616](#) Kill compiler process when test does not exit cleanly

[#34685](#) Close platform when tests are complete (dispose compiler and delete font files)

[#34863](#) Prepare for HttpClientResponse Uint8List SDK change

[#34877](#) More shards

[#35074](#) Attempt to enable tool coverage redux

[#35130](#) pass new users for release_smoke_tests

waiting for tree to go green - 35 PRs

[#28808](#) updated tearDownAll function

[#28834](#) Sliver animated list

[#29677](#) Fix calculation of hero rectTween when Navigator isn't fullscreen

[#30979](#) fix issue 30526: rounding error

[#31028](#) Adds support for generating projects that use AndroidX support libraries

[#31452](#) Remove engine tests

[#31600](#) Re-enable const

[#31798](#) Fix tab indentation

[#31832](#) Allow DSS to be dragged when its children do not fill extent

[#31868](#) Handle notification errors

[#32025](#) Make Hover Listener respect transforms

[#32266](#) Add reference to Runner-Bridging-Header.h to iOS profile config

[#32328](#) Add breadcrumbs to TextOverflow

[#32380](#) const everything in Driver

[#32410](#) Add ancestor and descendant finders to Driver

[#33152](#) ModalRoute resumes previous focus on didPopNext

[#33272](#) Add mustRunAfter on mergeAssets task to force task ordering

[#33442](#) fix GridView documentation

[#33461](#) Various code cleanup improvements

[#33653](#) Include advice about dispose in TextEditingController api

[#33865](#) Correct version name for BottomNavigationBar golden test

[#33880](#) Splitting golden file versioning out as an argument of matchesGoldenFile

[#33932](#) More removing of timeouts.

[#33955](#) Add localFocalPoint to ScaleDetector

[#34298](#) Preserving SafeArea : Part 2

[#34440](#) Add Driver command to get diagnostics tree

[#34474](#) Release diagnostics

[#34573](#) Ensures flutter jar is added to all build types on plugin projects

[#34592](#) Config lib dependencies for flavors

[#34606](#) Remove portions of the Gradle script related to dynamic patching

[#34655](#) Revert "Config lib dependencies for flavors"

[#34685](#) Close platform when tests are complete (dispose compiler and delete font files)

[#34738](#) Update Xcode projects to recommended Xcode 10 project settings

[#34877](#) More shards

[#34919](#) Remove duplicate error parts

d: api docs - 34 PRs

[#31294](#) Improve Radio Documentation with Example

[#31295](#) Improve ThemeData.accentColor connection to secondary color

[#31316](#) Add InkWell docs on transitions and ink splash clipping

[#31317](#) Add docs to AppBar

[#31493](#) Keycode generation doc fix

[#31502](#) Improve Tabs documentation

[#31634](#) Improve canvas example in sample dart ui app

[#31693](#) Adds a note to Radio's/RadioButton's onChange

[#31763](#) Fix ScrollbarPainter thumbExtent calculation and add padding

[#31902](#) Updated primaryColor docs to refer to colorScheme properties

[#31903](#) Extract TODO comment from Image.asset dardoc

[#31929](#) Sample Code & Animation for Flow Widget

[#32147](#) Added state management docs/sample to SwitchListTile

[#32177](#) Tab Animation Sample Video

[#32530](#) Add Actions to AppBar Sample Doc

[#32638](#) Fix apidocs in _WidgetsAppState.basicLocaleListResolution

[#32641](#) Updating dart.dev related links

[#32703](#) Add Doc Samples For CheckboxListTile, RadioButton and SwitchListTile

[#32909](#) Documentation fix for debugProfileBuildsEnabled

[#33226](#) Explain hairline rendering in BorderSide.width docs

[#33442](#) fix GridView documentation

[#33620](#) Document that offsets are returned in logical pixels

[#33653](#) Include advice about dispose in TextEditingController api

[#33665](#) [Trivial] Move dropdownValue into State in DropdownButton sample docs

[#33917](#) 'the the' doc fix

[#34073](#) Dartdoc Generation README Improvements

[#34137](#) Added tool sample for PageController

[#34163](#) update CupertinoDialogAction docs

[#34356](#) Add widget of the week videos

[#34388](#) Change API doc link to api.dart.dev

[#34424](#) SizedBox documentation minor update

[#34679](#) Fix-up code sample for TweenSequence

[#34758](#) Added some Widgets of the Week Videos to documentation

[#35046](#) Add generated Icon diagram to api docs

team - 28 PRs

[#28808](#) updated tearDownAll function

[#30327](#) Add "feature request" issue template

[#31452](#) Remove engine tests

[#31825](#) Fix missing return statements on function literals

[#31885](#) Fix commit message UTF issue for deploy_gallery shard too

[#31944](#) Performance issue template

[#32345](#) Add master channel to performance issue template

[#32503](#) Add more missing returns

[#33267](#) Add unpublish_package script.

[#33459](#) make sure version check includes hotfixes

[#33539](#) Fix/update several HTML links

[#33554](#) Remove obsolete TODOs

[#33677](#) Roll pub dependencies

[#33786](#) Add a real-er web restart, doctor, workflow

[#33787](#) Add chrome stable to dockerfile and web shard

[#33861](#) Unmark flutter_gallery__back_button_memory as flaky

[#33932](#) More removing of timeouts.

[#34032](#) Enable web foundation tests

[#34054](#) Make it easier to pass local engine flags when running devicelab tests

[#34112](#) Separate web and io implementations of network image

[#34199](#) make sure this test doesn't run for real

[#34738](#) Update Xcode projects to recommended Xcode 10 project settings

[#34739](#) Disable widgets and material web tests

[#34812](#) Shard framework tests

[#34818](#) Make docs do less work/be less flaky

[#34857](#) More shards

[#34877](#) More shards

[#35130](#) pass new users for release_smoke_tests

f: cupertino - 27 PRs

[#29809](#) Fix text selection toolbar appearing under obstructions

[#29824](#) Cupertino localization step 8: create a gen_cupertino_localizations and generate one for cupertino english and french

[#29954](#) Cupertino localization step 9: add tests

[#30129](#) Fix refresh control in the gallery demo, update comments

[#30224](#) Cupertino localization step 10: update the flutter_localizations README

[#31227](#) Adding CupertinoTabController

[#31308](#) Added font bold when isDefaultAction is true in CupertinoDialogAction

[#31326](#) Add more shuffle cupertino icons

[#31464](#) CupertinoPicker fidelity revision

[#31623](#) fix edge swiping and dropping back at starting point

[#31644](#) Cupertino localization step 12: push translation for all supported languages

[#31763](#) Fix ScrollbarPainter thumbExtent calculation and add padding

[#31852](#) Text selection handles are sometimes not interactive

[#32013](#) Cupertino Turkish Translation

[#32086](#) Fix CupertinoSliverRefreshControl onRefresh callback

[#32469](#) Let CupertinoNavigationBarBackButton take a custom onPressed

[#32513](#) Cupertino localization step 12 try 2: push translation for all supported languages

[#32620](#) Added ScrollController to TextField

[#32823](#) Add enableInteractiveSelection to CupertinoTextField

[#32974](#) Fix disabled CupertinoTextField style

[#33624](#) CupertinoTabScaffold crash fix

[#33634](#) Let there be scroll bars

[#33653](#) Include advice about dispose in TextEditingController api

[#33739](#) fixed cupertinoTextField placeholder textAlign

[#34095](#) Cupertino text edit tooltip, reworked

[#34163](#) update CupertinoDialogAction docs

[#34964](#) CupertinoTextField.onTap

severe: API break - 17 PRs

[#29188](#) Fix 25807: implement move in sliver multibox widget

[#29683](#) Show/hide toolbar and handles based on device kind

[#30040](#) Implement focus traversal for desktop platforms, shoehorn edition.

[#30579](#) PointerDownEvent and PointerMoveEvent default `buttons` to 1

[#30874](#) Redo "Remove pressure customization from some pointer events"

[#31227](#) Adding CupertinoTabController

[#31574](#) Improve RadioListTile Callback Behavior Consistency

[#32059](#) fix issue 14014 read only text field

[#32842](#) Allow "from" hero state to survive hero animation in a push transition

[#33148](#) ExpandIcon Custom Colors

[#33164](#) remove Layer.replaceWith due to no usage and no tests

[#33370](#) Update FadeInImage to use new Image APIs

[#33794](#) Text inline widgets, TextSpan rework

[#33946](#) Reland "Text inline widgets, TextSpan rework"

[#34051](#) Reland "Text inline widgets, TextSpan rework (#30069)" with improved backwards compatibility

[#34095](#) Cupertino text edit tooltip, reworked

[#34501](#) [Material] Fix TextDirection and selected thumb for RangeSliderThumbShape and RangeSliderValueIndicatorShape

a: text input - 15 PRs

[#29683](#) Show/hide toolbar and handles based on device kind

[#31687](#) Center iOS caret, remove constant offsets that do not scale

[#32059](#) fix issue 14014 read only text field

[#32823](#) Add enableInteractiveSelection to CupertinoTextField

[#32838](#) Handles hidden by keyboard

[#32974](#) Fix disabled CupertinoTextField style

[#33794](#) Text inline widgets, TextSpan rework

[#33802](#) Double double tap toggles instead of error

[#33946](#) Reland "Text inline widgets, TextSpan rework"

[#34051](#) Reland "Text inline widgets, TextSpan rework (#30069)" with improved backwards compatibility

[#34055](#) Toggle toolbar exception fix

[#34068](#) fix empty selection arrow when double clicked on empty read only text...

[#34095](#) Cupertino text edit tooltip, reworked

[#34515](#) OutlineInputBorder adjusts for borderRadius that is too large

[#34859](#) Fix Vertical Alignment Regression

🔌 platform-web - 15 PRs

[#33197](#) Wire up hot restart and incremental rebuilds for web

[#33349](#) Compatibility pass on flutter/foundation tests for JavaScript compilation. (1)

[#33350](#) Compatibility pass on flutter/scheduler tests for JavaScript compilation. (2)

[#33352](#) Compatibility pass on flutter/painting tests for JavaScript compilation. (3)

[#33354](#) Compatibility pass on flutter/services tests for JavaScript compilation. (4)

[#33355](#) Compatibility pass on flutter/rendering tests for JavaScript compilation. (5)

[#33359](#) Compatibility pass on flutter/physics tests for JavaScript compilation. (6)

[#33360](#) Compatibility pass on flutter/semantics tests for JavaScript compilation. (7)

[#33377](#) Compatibility pass on flutter/widgets tests for JavaScript compilation. (8)

[#33378](#) Compatibility pass on flutter/material tests for JavaScript compilation. (9)

[#33629](#) Add real-er restart for web using webkit inspection protocol

[#33956](#) Codegen an entrypoint for flutter web applications

[#34018](#) Add flutter create for the web

[#34112](#) Separate web and io implementations of network image

[#34159](#) Use product define for flutter web and remove extra asset server

a: desktop - 14 PRs

[#29683](#) Show/hide toolbar and handles based on device kind

[#30040](#) Implement focus traversal for desktop platforms, shoehorn edition.

[#30076](#) Implements FocusTraversalPolicy and DefaultFocusTraversal features.

[#30339](#) Add buttons to gestures

[#30579](#) PointerDownEvent and PointerMoveEvent default `buttons` to 1

[#31493](#) Keycode generation doc fix

[#31819](#) Redo: Add buttons to gestures

[#31935](#) Redo#2: Add buttons to gestures

[#33298](#) Add actions and keyboard shortcut map support

[#33443](#) Wrap Windows build invocation in a batch script

[#33454](#) ensure unpack declares required artifacts

[#33636](#) Implement plugin tooling support for macOS

[#33695](#) Add pseudo-key synonyms for keys like shift, meta, alt, and control.

[#33868](#) Game controller button support

t: gradle - 11 PRs

[#32787](#) Support 32 and 64 bit

[#33191](#) Remove colon from Gradle task name since it's deprecated

[#33228](#) Make Paths absolute in settings.gradle

[#33272](#) Add mustRunAfter on mergeAssets task to force task ordering

[#33696](#) Generate ELF shared libraries and allow multi-abi libs in APKs and App bundles

[#34123](#) Generate ELF shared libraries and allow multi-abi libs in APKs and App bundles

[#34353](#) Refactor Gradle plugin

[#34460](#) Add back ability to override the local engine in Gradle

[#34573](#) Ensures flutter jar is added to all build types on plugin projects

[#34592](#) Config lib dependencies for flavors

[#34668](#) Re-land config lib dependencies for flavors

f: scrolling - 9 PRs

[#31485](#) Prevent exception being thrown on hasScrolledBody

[#31763](#) Fix ScrollbarPainter thumbExtent calculation and add padding

[#31832](#) Allow DSS to be dragged when its children do not fill extent

[#32620](#) Added ScrollController to TextField

[#32726](#) Material should not prevent ScrollNotifications from bubbling upwards

[#32842](#) Allow "from" hero state to survive hero animation in a push transition

[#33627](#) SliverFillRemaining flag for different use cases

[#33634](#) Let there be scroll bars

[#34175](#) Don't show scrollbar if there isn't enough content

engine - 6 PRs

[#31520](#) Don't add empty OpacityLayer to the engine

[#33272](#) Add mustRunAfter on mergeAssets task to force task ordering

[#33662](#) Prep for engine roll

[#34276](#) [flutter_tool,fuchsia] Prefetch tiles when starting an app

[#34460](#) Add back ability to override the local engine in Gradle

[#34870](#) Add test case for Flutter Issue #27677 as a benchmark.

severe: new feature - 6 PRs

[#33148](#) ExpandIcon Custom Colors

[#33535](#) Custom height parameters for DataTable header and data rows

[#33628](#) DataTable Custom Horizontal Padding

[#33794](#) Text inline widgets, TextSpan rework

[#33946](#) Reland "Text inline widgets, TextSpan rework"

[#34051](#) Reland "Text inline widgets, TextSpan rework (#30069)" with improved backwards compatibility

t: flutter driver - 5 PRs

[#28808](#) updated tearDownAll function

[#31824](#) fix FlutterDriver timeout

[#32380](#) const everything in Driver

[#33431](#) Expose service client and app isolate in driver

[#33786](#) Add a real-er web restart, doctor, workflow

a: images - 5 PRs

[#32853](#) Add onBytesReceived callback to consolidateHttpClientResponseBytes()

[#32857](#) Add debugNetworkImageHttpClientProvider

[#32936](#) Add some sanity to the ImageStream listener API

[#33729](#) Update consolidateHttpClientResponseBytes() to use compressionState

[#33814](#) Added a benchmark for ImageCache

a: animation - 4 PRs

[#21896](#) Bottom sheet scrolling

[#29677](#) Fix calculation of hero rectTween when Navigator isn't fullscreen

[#32730](#) Add reverseDuration to AnimationController

[#32842](#) Allow "from" hero state to survive hero animation in a push transition

▣ platform-android - 4 PRs

[#31491](#) Allow adb stdout to contain the port number without failing

[#32950](#) Material allows "select all" when not collapsed

[#33191](#) Remove colon from Gradle task name since it's deprecated

[#33696](#) Generate ELF shared libraries and allow multi-abi libs in APKs and App bundles

d: examples - 4 PRs

[#31634](#) Improve canvas example in sample dart ui app

[#31822](#) remove unnecessary artificial delay in catalog example

[#31929](#) Sample Code & Animation for Flow Widget

[#35046](#) Add generated Icon diagram to api docs

a: typography - 4 PRs

[#31987](#) Text wrap width

[#33794](#) Text inline widgets, TextSpan rework

[#33946](#) Reland "Text inline widgets, TextSpan rework"

[#34051](#) Reland "Text inline widgets, TextSpan rework (#30069)" with improved backwards compatibility

t: xcode - 4 PRs

[#32266](#) Add reference to Runner-Bridging-Header.h to iOS profile config

[#33684](#) Disable CocoaPods input and output paths in Xcode build phase and adopt new Xcode build system

[#34293](#) Change Xcode developmentRegion to 'en' and CFBundleDevelopmentRegion to DEVELOPMENT_LANGUAGE

[#34738](#) Update Xcode projects to recommended Xcode 10 project settings

severe: crash - 3 PRs

[#31228](#) Fix ExpansionPanellist Duplicate Global Keys Exception

[#31581](#) Fix Exception on Nested TabBarView disposal

[#34460](#) Add back ability to override the local engine in Gradle



platform-ios - 3 PRs

[#31332](#) iOS selection handles are invisible

[#31687](#) Center iOS caret, remove constant offsets that do not scale

[#33684](#) Disable CocoaPods input and output paths in Xcode build phase and adopt new Xcode build system

a: internationalization - 3 PRs

[#31644](#) Cupertino localization step 12: push translation for all supported languages

[#32013](#) Cupertino Turkish Translation

[#32513](#) Cupertino localization step 12 try 2: push translation for all supported languages



platform-fuchsia - 3 PRs

[#32849](#) [flutter_tool] Adds support for 'run' for Fuchsia devices

[#34162](#) Update the Fuchsia SDK

[#34276](#) [flutter_tool,fuchsia] Prefetch tiles when starting an app

a: existing-apps - 3 PRs

[#33297](#) Instrument add to app flows

[#33450](#) Do not return null from losProject.isSwift

[#34189](#) Instrument usage of include_flutter.groovy and xcode_backend.sh

a: accessibility - 3 PRs

[#33808](#) fix ExpansionPanellist merge the header semantics when it is not nece...

[#34368](#) Fix semantics_tester

[#34434](#) Semantics fixes

customer: solaris - 2 PRs

[#29677](#) Fix calculation of hero rectTween when Navigator isn't fullscreen

[#34298](#) Preserving SafeArea : Part 2

e: desktop - 2 PRs

[#31329](#) Add Xcode build script for macOS target

[#31567](#) Remove need for build/name scripts on Linux desktop

🔗 platform-mac - 2 PRs

[#31329](#) Add Xcode build script for macOS target

[#33636](#) Implement plugin tooling support for macOS

a: fidelity - 2 PRs

[#31464](#) CupertinoPicker fidelity revision

[#33634](#) Let there be scroll bars

f: date/time picker - 2 PRs

[#31464](#) CupertinoPicker fidelity revision

[#32843](#) Added a missing dispose of an AnimationController that was leaking a ticker.

team: gallery - 2 PRs

[#31486](#) fix precedence issue

[#33634](#) Let there be scroll bars

dependency: dart - 2 PRs

[#32787](#) Support 32 and 64 bit

[#34295](#) Prepare for Uint8List SDK breaking changes

team: flakes - 2 PRs

[#33932](#) More removing of timeouts.

[#34199](#) make sure this test doesn't run for real

customer: espresso - 2 PRs

[#34012](#) Extract DiagnosticsNode serializer from WidgetInspector

[#34440](#) Add Driver command to get diagnostics tree

severe: customer critical - 2 PRs

[#34298](#) Preserving SafeArea : Part 2

[#34519](#) fix page scroll position rounding error

t: flutter doctor - 2 PRs

[#34624](#) Break down flutter doctor validations and results

[#34755](#) Add linux doctor implementation

f: routes - 1 PRs

[#21896](#) Bottom sheet scrolling

p: framework - 1 PRs

[#30406](#) Add binaryMessenger constructor argument to platform channels

❖ platform-windows - 1 PRs

[#33443](#) Wrap Windows build invocation in a batch script

a: size - 1 PRs

[#34474](#) Release diagnostics

customer: google - 1 PRs

[#34474](#) Release diagnostics

severe: performance - 1 PRs

[#34870](#) Add test case for Flutter Issue #27677 as a benchmark.

This release included 841 PRs. Not all may be shown; some PRs such as those generated by autorollers are omitted.

PRs addressed in flutter/engine between

b593f5167bce84fb3cad5c258477bf3abc1b14eb

and

d004bcd4d619fc3574761d63d7cf7b7291332c79

affects: text input - 2 PRs

[#9322](#) Check for invalid indexes when performing InputAdpator backspace.

[#9406](#) Update harfbuzz to 2.5.2

platform-android - 1 PRs

[#9172](#) Use shared library when libapp.so is found

affects: dev experience - 1 PRs

[#9304](#) Decorate UIApplicationDelegate wrappers with matching UIKit deprecation

platform-ios - 1 PRs

[#9304](#) Decorate UIApplicationDelegate wrappers with matching UIKit deprecation

accessibility - 1 PRs

[#9321](#) Fix a11y in embedded Android views post O

crash - 1 PRs

[#9322](#) Check for invalid indexes when performing InputAdpator backspace.

affects: framework - 1 PRs

[#9452](#) Convert RRect.scaleRadii to public method

affects: tests - 1 PRs

[#9458](#) Test cleanup geometry_test.dart

This release included 605 PRs. Not all may be shown; some PRs such as those generated by autorollers are omitted.