**软件需求工程\_171850048吴家玥\_EX1**

* **fix: update copy fnScopeId in patchVnode (fix: #10416) #10454**
* **fix: binding of `muted` dom property for <audio> #10413**

****What kind of change does this PR introduce?**** (check at least one)

 Bugfix

****Does this PR introduce a breaking change?**** (check one)

 No

****The PR fulfills these requirements:****

 It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

 When resolving a specific issue, it's referenced in the PR's title (e.g. fix #xxx[,#xxx], where "xxx" is the issue number)

 All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

****Other information:****

Binding the DOM muted property to a Vue.js property is currently working only on <video> elements, but not on <audio> elements. Example: <https://jsfiddle.net/jfLkynsg/>

This trivial change fixes the binding for <audio>.

* **docs: update license badge url #10394**

****What kind of change does this PR introduce?**** (check at least one)

 Other, please describe: Docs update

****Does this PR introduce a breaking change?**** (check one)

 No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

 All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

****Other information:****  
N/A

* **docs(contributing): fix project structure of types directory #10387**

****What kind of change does this PR introduce?**** (check at least one)

 Other, please describe: fix document

****Does this PR introduce a breaking change?**** (check one)

 No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

* **fix(compiler): fix nested v-slot not updating when used with v-if/v-else #10377**

fix nested v-slot not updating when v-if/v-else used in the root element of the slot content, and it will close [#10330](https://github.com/vuejs/vue/issues/10330) .

****What kind of change does this PR introduce?**** (check at least one)

Bugfix

****Does this PR introduce a breaking change?**** (check one)

 No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

* **feat(compiler): allow inline async functions in event handlers #10361**

This allows using async inline functions in v-on event handlers [#10338](https://github.com/vuejs/vue/issues/10338)

****What kind of change does this PR introduce?**** (check at least one)

 Bugfix

****Does this PR introduce a breaking change?**** (check one)

 No

****The PR fulfills these requirements:****

 It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

 New/updated tests are included

* **tweak: let array index less than (2 \*\* 32 - 1) to fit Standard ECMA #10341**

****What kind of change does this PR introduce?**** (check at least one)

 Other, please describe: let array index less than Math.pow(2, 32) - 1 to fit Standard ECMA

****Does this PR introduce a breaking change?**** (check one)

 No

****The PR fulfills these requirements:****

 All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

* **refactor(style): use arrow functions for unit tests #10317**

The majority of unit tests uses arrow functions for describe and it callbacks. This PR fixes the few that don't for a more consistent style.

****What kind of change does this PR introduce?**** (check at least one)

 Code style update

****Does this PR introduce a breaking change?**** (check one)

 No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

 All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

* **refactor: use lastIndex provide by exec #10292**

****What kind of change does this PR introduce?**** (check at least one)

Refactor

****Does this PR introduce a breaking change?**** (check one)

 No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

I received lots of changes after run npm run build, so I skip it

If adding a ****new feature****, the PR's description includes:

A convincing reason for adding this feature (to avoid wasting your time, it's best to open a suggestion issue first and wait for approval before working on it)

lastIndex will auto-update in RegExp.prototype.exec, We do not need update manually

[https://tc39.es/ecma262/#sec-regexpbuiltinexec](https://tc39.es/ecma262/" \l "sec-regexpbuiltinexec)

****Other information:****

var a = /a/g

var lastIndex = a.lastIndex

var match = a.exec("baa")

match[0].length + match.index === a.lastIndex

* **feat(compiler): comments for if-else conditions #10286**

****What kind of change does this PR introduce?**** (check at least one)

Feature

****Does this PR introduce a breaking change?**** (check one)

 No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

When resolving a specific issue, it's referenced in the PR's title (e.g. fix #xxx[,#xxx], where "xxx" is the issue number)

All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

New/updated tests are included

If adding a ****new feature****, the PR's description includes:

A convincing reason for adding this feature (to avoid wasting your time, it's best to open a suggestion issue first and wait for approval before working on it)

closes [#10288](https://github.com/vuejs/vue/issues/10288)

****Other information:****

In order to fix these 2 issues, I need to have access to the HTML comments before a v-else block

* [vue-styleguidist/vue-styleguidist#430](https://github.com/vue-styleguidist/vue-styleguidist/issues/430)
* [vue-styleguidist/vue-styleguidist#322](https://github.com/vue-styleguidist/vue-styleguidist/issues/322)

To give you an example, here is a format that does not work with the current parser. Since we cannot have the comments as normal nodes, I thought we could have the missing comment beside the ifCondition.

<div>

<slot name="isTest" v-if="test"></slot>

<!-- doesn't come out -->

<slot name="foo" v-else-if="otherTest"></slot>

<!-- doesn't come out -->

<template v-else><slot name="bar"></slot></template></div>

* **chore: remove redundant code from Vue.prototype.\_render #10279**

Parent vnode is set already in initRender.

****What kind of change does this PR introduce?**** (check at least one)

 Other, please describe: remove redundant code.

****Does this PR introduce a breaking change?**** (check one)

 No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

 All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

* **fix(compiler): avoid overwriting when dynamic v-slot used with v-for #10272**

fixes [#10271](https://github.com/vuejs/vue/issues/10271)

****What kind of change does this PR introduce?**** (check at least one)

Bugfix

****Does this PR introduce a breaking change?**** (check one)

 No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

* **fix: changed a type for AsyncComponentFactory component(fix #10252) #10253**

****What kind of change does this PR introduce?**** (check at least one)

Bugfix

****Does this PR introduce a breaking change?**** (check one)

No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

When resolving a specific issue, it's referenced in the PR's title (e.g. fix #xxx[,#xxx], where "xxx" is the issue number)

All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

New/updated tests are included

****Other information:****  
Close [#10252](https://github.com/vuejs/vue/issues/10252)

* **fix(vnode): support for browsers that do not support svg (fix #10248) #10250**

fix [#10248](https://github.com/vuejs/vue/issues/10248)

In some Android browsers that don't support SVG. The style attribute of the Element generated by createElementNS is null.

****What kind of change does this PR introduce?****

Bugfix

****Does this PR introduce a breaking change?****

No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

When resolving a specific issue, it's referenced in the PR's title (e.g. fix #xxx[,#xxx], where "xxx" is the issue number)

All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

* **feat(keep-alive): includes/excludes keep-alive based on key and name (fix #8028) #10245**

The keep-alive component will now also use the key of the component when checking the includes or excludes properties.

On this way you can cache specific instances of a component instead of caching all instances of that component.

fix [#8028](https://github.com/vuejs/vue/issues/8028)

****What kind of change does this PR introduce?****

Feature

****Does this PR introduce a breaking change?****

No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

When resolving a specific issue, it's referenced in the PR's title (e.g. fix #xxx[,#xxx], where "xxx" is the issue number)

All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

New/updated tests are included

* **fix(slot): add a function to return the slot fallback content #10229**

fixes [#10224](https://github.com/vuejs/vue/issues/10224).

****What kind of change does this PR introduce?**** (check at least one)

Bugfix

****Does this PR introduce a breaking change?**** (check one)

No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

New/updated tests are included

* **fix(warning): Add context to warn message (close #10153) #10208**

****What kind of change does this PR introduce?**** (check at least one)

Feature

****Does this PR introduce a breaking change?**** (check one)

No

****The PR fulfils these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

When resolving a specific issue, it's referenced in the PR's title (e.g. fix #xxx[,#xxx], where "xxx" is the issue number)

All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

****Other information:****  
Fixes [#10153](https://github.com/vuejs/vue/issues/10153)

* **feat(events): add .emit event modifier (fix #9325) #10202**

fix [#9325](https://github.com/vuejs/vue/issues/9325)

****What kind of change does this PR introduce?**** (check at least one)

Feature

****Does this PR introduce a breaking change?**** (check one)

No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

When resolving a specific issue, it's referenced in the PR's title (e.g. fix #xxx[,#xxx], where "xxx" is the issue number)

All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

New/updated tests are included

If adding a ****new feature****, the PR's description includes:

A convincing reason for adding this feature (to avoid wasting your time, it's best to open a suggestion issue first and wait for approval before working on it)

* **feat(warn): Warn on colon shorthand usage on directive (fix #10191) #10199**

fix [#10191](https://github.com/vuejs/vue/issues/10191)

****What kind of change does this PR introduce?**** (check at least one)

Feature

****Does this PR introduce a breaking change?**** (check one)

No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch

When resolving a specific issue, it's referenced in the PR's title (e.g. fix #xxx[,#xxx], where "xxx" is the issue number)

All tests are passing: [https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md#development-setup](https://github.com/vuejs/vue/blob/dev/.github/CONTRIBUTING.md" \l "development-setup)

New/updated tests are included

****Other information:****

<template>

<div v-if="something">foo</div> <!-- does not throw a warning -->

<div :v-if="something">foo</div> <!-- throws a warning --></template>

There are several things I decided that could be improved, so any advice or suggestion is greatly appreciated :)

* PR shows a warning for every bound attribute starting with v-. The reasoning is that "The v- prefix serves as a visual cue for identifying Vue-specific attributes in your templates." ([source](https://vuejs.org/v2/guide/syntax.html" \l "Shorthands))
* Do we need more test cases?
* Is the warning message clear enough? If the attribute is not a valid Vue directive, should the message change?

Thanks!

* **fix(compiler): modify `maybeComponent` function in parser #10167**

Add condition to see whether the element may be an component.  
fixes [#10152](https://github.com/vuejs/vue/issues/10152)

****What kind of change does this PR introduce?**** (check at least one)

Bugfix

****Does this PR introduce a breaking change?**** (check one)

No

****The PR fulfills these requirements:****

It's submitted to the dev branch for v2.x (or to a previous version branch), not the master branch