

# **Bootstrap 5**

"I can do this all day"

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# The process

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## The process

#### Status

- PopperJS upgrade MDL-75673
- SCSS Deprecation process MDL-78334
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- Create a BS5 "bridge" MDL-79917
- BS5 upgrade MDL-75669
- BS4 backward-compatibility layer MDL-80519
- Final deprecation

## PopperJS upgrade

- We are currently using popperJS version v1.12.6
  - Bootstrap 4 requires Popper v1.x.
  - Bootstrap 5 requires Popper v2.x.
- Previous to the Bootstrap 5 upgrade
   Popper v2.11.8 will be added to Core.
- Both v1.12.6 and v2.11.8 will **co-exist** until all PopperJS usages are migrated to v2.
- When BS5 upgrade starts, Popper will be already in v2 in the current codebase.

#### PopperJS migration example:

```
new Popper (reference Element, popper Content,
createPopper(referenceElement, popperContent,
```

## **SCSS Deprecation process**

- A SCSS deprecation process will be needed for the cleanup after BS5 upgrade.
- Styles to deprecate will be moved to deprecated.scss file.
- A @mixin will be available for those styles.
- In "theme designer mode" and Behat tests (--scss-deprecations on init), styles that have been deprecated will be detected.

theme/boost/scss/moodle/deprecated.scss

```
// Example:
.foo {
   .bar {
      color: $blue;
      @include deprecated-styles();
   }
}
```



## BS4 Refactoring in advance

- The goal is to refactor all the BS5 migration breaking changes that don't need specific BS5 code.
- Refactor them in every occurrence in the current codebase, that will be mainly in mustache templates.
- This will mitigate the changes needed in the migration.

# https://getbootstrap.com/docs/5.0/migration/ • Breaking Dropped all .badge-\* color classes for background utilities (e.g., use .bg-primary instead of .badge-primary). • Breaking Dropped .badge-pill—use the .rounded-pill utility instead. Refactor example: <span class="badge badge-primary badge-pill">14</span> <span class="badge bg-primary rounded-pill">14</span>

## Create a BS5 "bridge"

- A BS5 "bridge" will be created to start migrating some breaking changes even before BS is upgraded.
- Some simple helper classes, mixins, etc will be added to a "bridge" SCSS.
- With that bridge will be possible to migrate many occurrences in the current codebase.
- When BS5 is upgraded the bridge SCSS will be removed.

#### https://getbootstrap.com/docs/5.0/migration/

```
    Breaking "Screen reader" classes are now "visually hidden" classes.
    Changed the Sass file from scss/helpers/_screenreaders.scss to scss/helpers/_visually-nidden.scss
    Renamed .sr-only and .sr-only-focusable to .visually-hidden and .visually-hidden-focusable
    Renamed sr-only() and sr-only-focusable() mixins to visually-hidden() and visually-hidden-focusable().
```

#### Bridge example:

```
<div class="sr-only">

/* Bootstrap 5 bridge classes */
.visually-hidden {
    @extend .sr-only;
}

<div class="visually-hidden">
```

## **BS5** upgrade

- Let's upgrade Bootstrap!
- Pay attention to all the Breaking changes that were not tackled in "BS4 refactoring" or "BS5 Bridge".
- **Fix** all the Behat **errors** that most likely will appear.
- Upgrade Component Library
- Remove BS5 bridge



## BS4 backwards-compatibility layer

- A selection of the main used BS4
  helper classes, mixins, ... will be
  added to a backwards-compatibility
  layer.
- That will help and give some time to third party plugins to migrate to BS5.
- It is being updated during the hole process.

#### https://getbootstrap.com/docs/5.0/migration/

```
• Breaking Renamed several utilities to use logical property names instead of directional names with the addition of RTL support:

• Renamed .left-* and .right-* to .start-* and .end-*.

• Renamed .float-left and .float-right to .float-start and .float-end.

• Renamed .border-left and .border-right to .border-start and .border-end.

• Renamed .rounded-left and .rounded-right to .rounded-start and .rounded-end.

• Renamed .ml-* and .mr-* to .ms-* and .me-*.

• Renamed .pl-* and .pr-* to .ps-* and .pe-*.

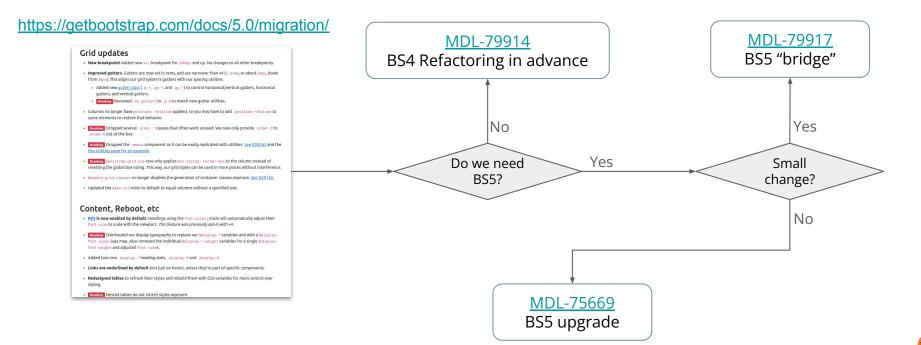
• Renamed .text-left and .text-right to .text-start and .text-end.
```

#### Retro-compatibility example:

```
/* Bootstrap 4 retro-compatibility classes */
.text-right {
    @extend .text-end;
}
.float-left {
    @extend .float-start;
}
```

## **Breaking changes**

### Strategy



## Other important links

- MDL-71979 Tracker Epic
  - https://tracker.moodle.org/browse/MDL-71979
- Bootstrap Migration in DevDocs
  - https://moodledev.io/docs/guides/bs5migration



# Thank you!



