Bootstrap 4 to 5 Migration Checklist

- From https://getbootstrap.com/docs/5.0/migration/.
- Status icons (not all yet) have been added tentatively but checks need to be done about:
  - Is Tiki code affected by the particular migration change? and
  - Has the Tiki code been updated in response to the change?
- Then when the Tiki code is updated and tested, "□" can be changed to "☑".
- Add list sub-items for comments and questions.

**Key**

- To do (or to investigate whether anything needs to be done) {icon name="square-o"}
- Done {icon name="check-square-o"}
- Not sure, etc. {icon name="question-circle-o"}

**Instances in site content may need updating.** {icon name="user-edit"}

Sass

[+] Color system

[+] Grid updates

[+] Content, Reboot, etc

[+] RTL

[+] Forms

[+] Components

[+] Utilities

  - 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-*`.
      - No instances found to update.
    - 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`.
      - No instances found in .tpls, but a few in theme CSS files, doing no harm but reasons for being there ould be identified.
    - 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`.

- Disabled negative margins by default.

- Added new `.bg-body` class for quickly setting the `<body>`'s background to additional elements.
- Added new position utilities for `top`, `right`, `bottom`, and `left`. Values include , 50%, and 100% for each property.
- Added new `.translate-middle-x` and `.translate-middle-y` utilities to horizontally or vertically center absolute/fixed positioned elements.
- Added new `border-width` utilities.
- Renamed `.text-monospace` to `.font-monospace`.
  - No instances found to update.
- **Removed** `.text-hide` as it’s an antiquated method for hiding text that shouldn’t be used anymore.
- **Added** `.fs-*` utilities for `font-size` utilities (with RFS enabled). These use the same scale as HTML’s default headings (1-6, large to small), and can be modified via Sass map.
- **Renamed** `.font-weight-*` utilities as `.fw-*` for brevity and consistency.
- **Renamed** `.font-style-*` utilities as `.fst-*` for brevity and consistency.
  - No instances of `.font-weight-*` and `.font-style-*` found in Tiki code.
- **Added** `.d-grid` to display utilities and new `gap` utilities (-+.gap+-) for CSS Grid and flexbox layouts.
- **Removed** `.rounded-sm` and `.rounded-lg`, and introduced a new scale of classes, `.rounded-0` to `.rounded-3`. See #31687.
- **Added** new `line-height` utilities: `-+.lh-1`, `.lh-sm`, `.lh-base` and `.lh-lg`. See here.
- **Moved** the `.d-none` utility in our CSS to give it more weight over other display utilities.
- **Extended** the `.visually-hidden-focusable` helper to also work on containers, using `:focus-within`.

**Helpers**

- **Responsive embed helpers have been renamed to** ratio helpers with new class names and improved behaviors, as well as a helpful CSS variable.
  - Classes have been renamed to change `by` to `x` in the aspect ratio. For example, `.ratio-16by9` is now `.ratio-16x9`.
  - We’ve dropped the `.embed-responsive-item` and element group selector in favor of a simpler `.ratio > *` selector. No more class is needed, and the ratio helper now works with any HTML element.
  - The `$embed-responsive-aspect-ratios` Sass map has been renamed to `$aspect-ratios` and its values have been simplified to include the class name and the percentage as the `key: value` pair.
  - CSS variables are now generated and included for each value in the Sass map. Modify the `--bs-aspect-ratio` variable on the `[ratio]` to create any custom aspect ratio.
- **“Screen reader” classes are now “visually hidden” classes.**
  - Changed the Sass file from `scss/helpers/_screenreaders.scss` to `scss/helpers/_visually-hidden.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()`
- `bootstrap-utilities.css` now also includes our helpers. Helpers don’t need to be imported in custom builds anymore.

**JavaScript**

- **Dropped jQuery dependency** and rewrote plugins to be in regular JavaScript.
- **Data attributes** for all JavaScript plugins are now namespaced to help distinguish Bootstrap functionality from third parties and your own code. For example, we use `data-bs-toggle` instead of `-+data-toggle`.
- **All plugins can now accept a CSS selector as the first argument.** You can either pass a DOM element or any valid CSS selector to create a new instance of the plugin:
  ```javascript
  var modal = new bootstrap.Modal('#myModal')
  var dropdown = new bootstrap.Dropdown('[data-bs-toggle="dropdown"]')
  ```
- `popperConfig` can be passed as a function that accepts the Bootstrap’s default Popper config as an argument, so that you can merge this default configuration in your way. **Applies to dropdowns, popovers, and tooltips.**
- The default value for the `fallbackPlacements` is changed to `[‘top’, ‘right’, ‘bottom’, ‘left’]` for
better placement of Popper elements. **Applies to dropdowns, popovers, and tooltips.**
- Removed underscore from public static methods like `getInstance()` → `getInstance()`.

**TODO**

reminder notes for before branching/release:
- Replace dependency on CDN for Popper 2 library with composer *(introduced in fd6667ec)*
- Fix "delay as an object" tooltip workaround added in e372930c when it is fixed upstream *(see https://github.com/twbs/bootstrap/issues/35020 for more)*