



Guidelines and Specifications for Building the d2 Interface

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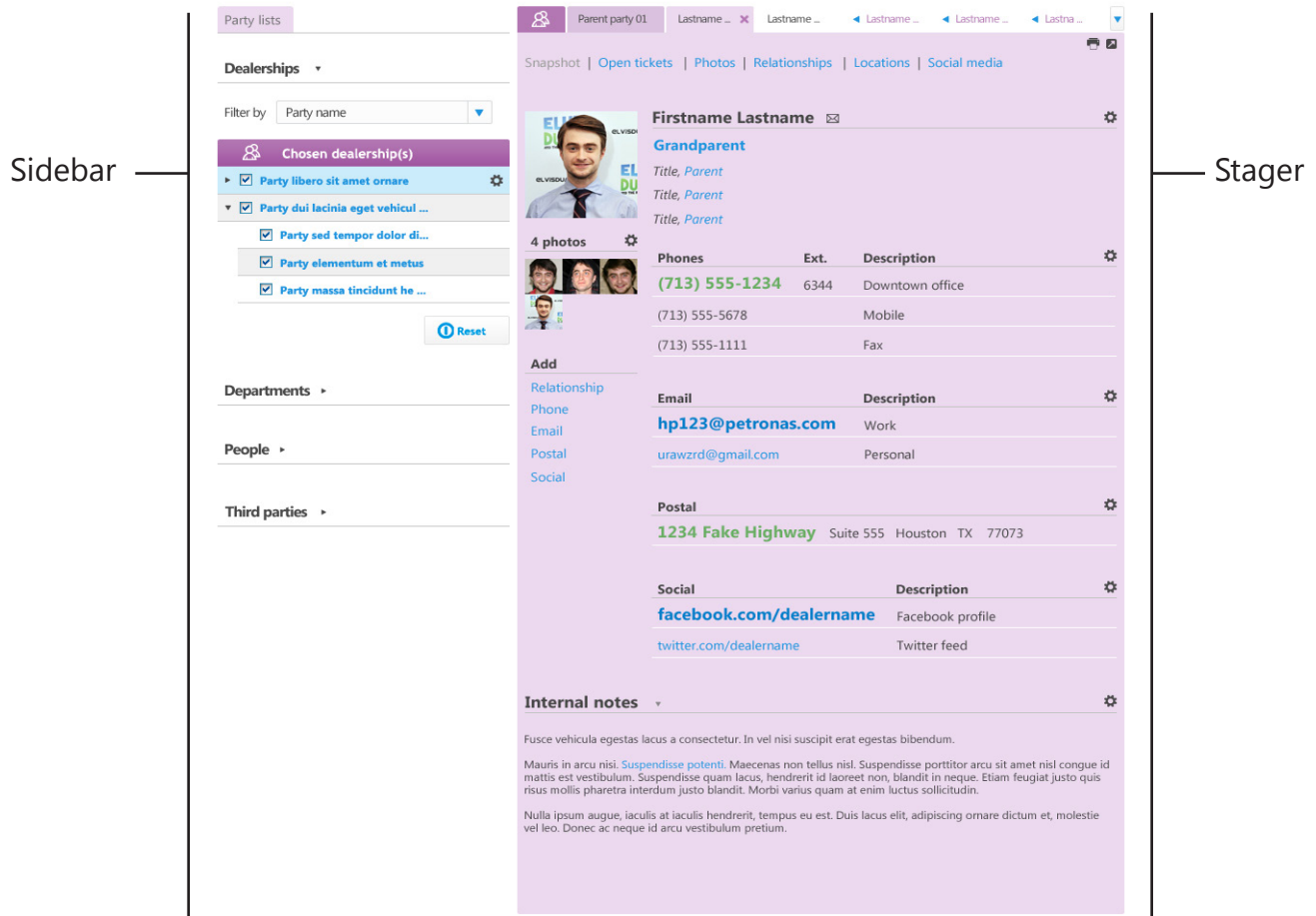
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Overview

Basic d2 interface

The d2 interface consists of two primary sections: the sidebar, and the stager.



Site-wide settings

Margins, padding and spacing

Margins

Unless otherwise specified, all container left/right margins will be set to 0px. A container may have larger top/bottom margins, as spacing and necessity dictate.

Images may have margins, where text wraps around them, or as style or necessity dictates. These margins should not exceed 16px on any side, or as good taste indicates.

Padding

The standard left/right padding for all containers, headers, and grids is 8px. Top/bottom padding can be variable, as style or necessity dictates.

Spacing

Line-height should be set to normal.

Widths

Standard widths

The following widths are applied site-wide, to all elements (containers, images, grids, headers, etc.), unless otherwise specified. The effective widths (i.e., the amount of available space, minus standard 8px padding) appear in parentheses. The 8px padding standard is applied to all containers, grids, and headers.

- 1/1: 960px (944px)
- 2/3: 640px (624px)
- 1/2: 480px (464px)
- 1/3: 320px (304px)
- 1/4: 240px (224px)

Fixed widths of outer containers

d2 has two main containers: the sidebar (320px [304px]), and the stager (640px [624px]).

Icon widths

There are two icon widths: one for icons that appear on buttons and the car options (15px), and one for icons that appear everywhere else (17px). See *sprites* for more details.

Colors

Background colors

The site background color is #ffffff. The color of the stager/tabs varies, depending upon the active module (See *color schemes*). The sidebar has no background color, or it inherits its background color from the site.

Text colors

These colors apply to all textual elements (e.g., body, tab, header, grids, links), except where a specific other color is specified.

- Color: #484848
- Hyperlink: #2095df
- Hover: #61c2ff

Other colors

- Header bottom-border: #c2c2c2

Font family, styles and sizes

Font Family

Segoe UI, Arial, Sans Serif

Sizes

Headers and text, including bottom-borders, and 8px left-right padding for headers:

<h1>, 24px, Bold</h1>

<h2>, 18px, bold</h2>

<h3-6>, 14px, regular</h3-6>

<p>, 14px, regular</p>

12px for special use (e.g., captions, certain record editor elements).

10px for certain record editor elements.

24px, bold, for importance raiser (color tied to color scheme).

Other style cues

Corner radius

The corner radius for tabs, buttons, and most containers is 1px, site-wide.

Vertical spacing (rule of thumb)

Generally, the amount of apparent vertical space between elements should never be less than 8px, nor more than 32px. Within this range there is considerable room for variation (as taste or necessity requires) and these rules may need to be refined for precision and specificity as builds become available for review.

In spite of these broad strokes, a few more-or-less standard vertical spacing guidelines may still be established:

- most non-header elements can probably take an 8px top/bottom margin or padding.
- **h1:** Apparent spacing between an <h1> bottom border and the first object beneath it should be around 24px (e.g., if an element would appear beneath an <h1> container, and the element has a minimum 8px top margin, then the margin beneath the <h1> container should be 16px).
- **h2:** objects beneath an <h2> container do not need to appear as far away from the bottom border of the container as do objects appearing beneath an <h1> container. 8px should be sufficient (e.g., if an element would appear beneath an <h2> container, and the element has a minimum 8px top margin/padding, then the margin beneath the <h2> container should be 0px).
- **h3-h6:** objects beneath these headers can conform to normal line height spacing.
- In general, elements that can be grouped together by type or function should tend to have <16px of vertical space between them, and separate groups should have >16px of vertical space between them.

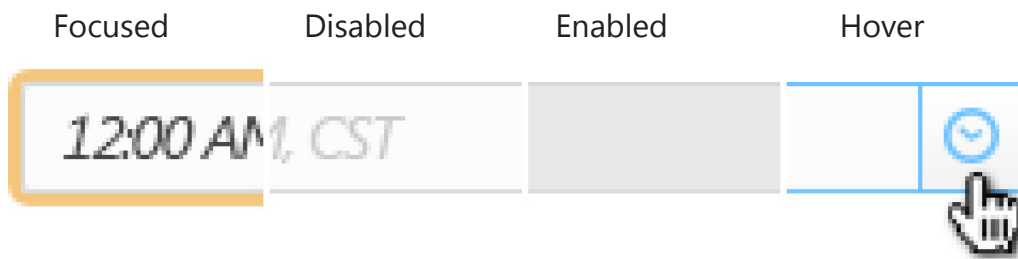
Record editor elements

Overview

To maintain visual consistency across the various color schemes in d2, and to ensure that the blue accent color is associated primarily with clickable objects, the record editor elements remain color-agnostic, and feature blue clickables and hover events. Several of the elements may be PNGs, and their styles are fixed. Others are PNG/CSS hybrids, and others may be constructed entirely through style attributes. The CSS needed to style these elements should conform to the color and style cues established by the visual examples that follow.

States

The elements currently exist in four states: enabled, disabled, hover, and focused.



Static/inherited settings

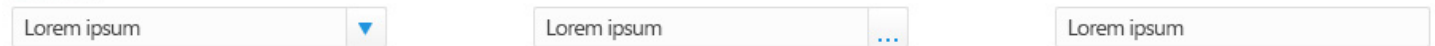
These settings generally apply to all record editor elements that have them. Exceptions or additional styles accompany the visual aids that follow.

- Enabled text color: #484848 (inherited from site)
- Disabled text color: #dcdcdc
- Font family: Segoe UI, Arial, Sans Serif (inherited from site)
- Font size: 14px (inherited from site)
- Hover row/cell background: #d4ebf9 (for drop-downs, date picker. share with grids?)
- Enabled/disabled/focused border: #dcdcdc
- Hover border: #61c2ff
- Focus outer-glow: #f4cb86
- Element background, all states: #fcfcfc
- Button/Clickable gradient (from dark to light): #f4f4f4, #f9f9f9, #ffffff
- Disabled Button/Clickable gradient (from dark to light): #e2e2e2, #ecec, #f5f5f5
- 4 corner radii: 1px

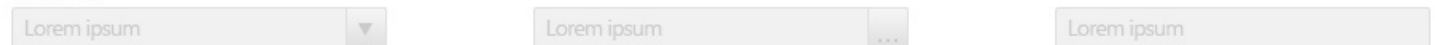
Combo and text entry boxes

d2 features two types of combo box: drop down, and auto-complete. Both are identically styled, distinguishable only by the different PNGs in the right “button” area. The text entry box is styled identically to the combo box, but it has no clickable “button” area on the right. The text entry box may also be resized both vertically and horizontally.

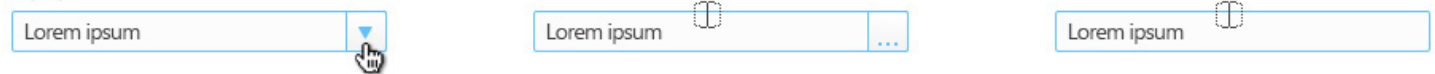
enabled



disabled



hover

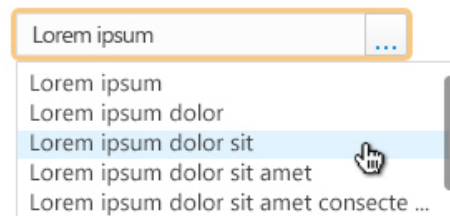


focused



Combo box menu

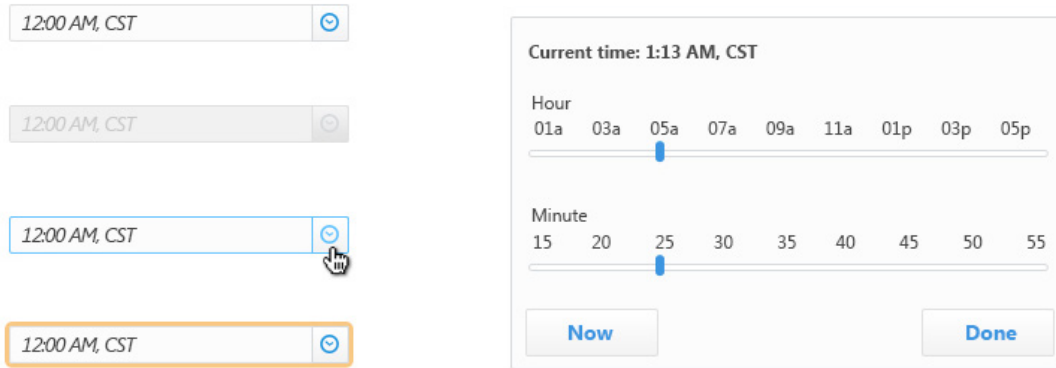
The combo box menu is a list that appears beneath both the drop down and auto-complete combo boxes. The menu can take a list of any length. If the list is longer than the viewable area in the view port, a scroll bar will appear. The menu inherits its style cues from the record editor elements static settings.



Time and date pickers

d2 features a time picker, a date picker, and a time-date picker combo editor. Each opens a different type of control panel, when clicked.

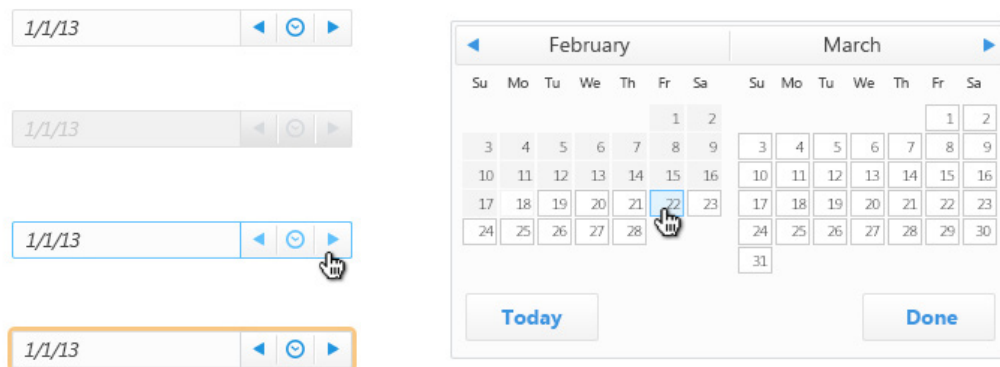
Time picker



The picker is styled identically to the combo box, with only the different PNG in the clickable "button" area, and an italic font style, to distinguish it. The display shows the current time.

The time picker control panel employs the slider record editor element (see *slider* below), and buttons. It shares style attributes with the static record editor elements style cues.

Date picker



The date picker is styled identically to the combo box. The display shows the current date. Unlike the time picker, the date picker has a unique, "3-button" clickable area to the right. The appearance of 3 beveled buttons can be achieved using 1px solid vertical borders on either the left or right side of a container, depending on its position and class:

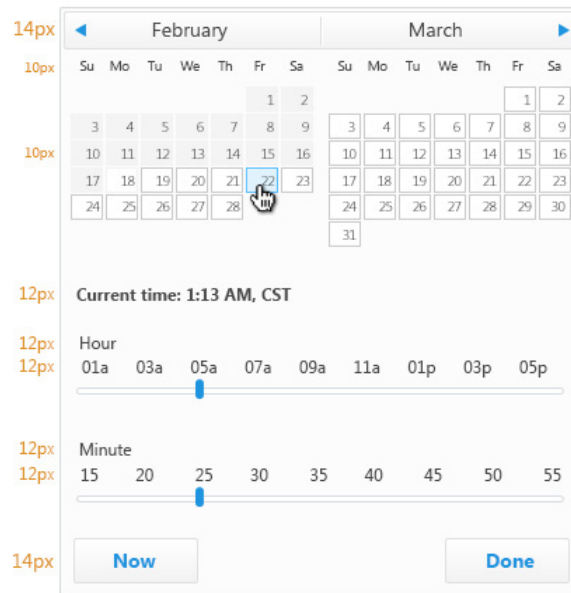
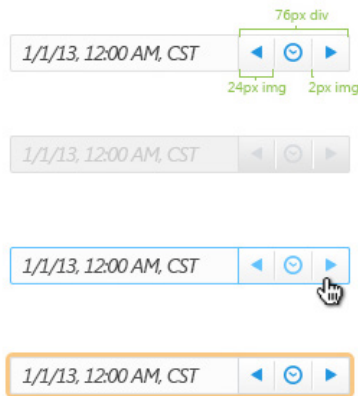
```
.leftcont { border-left: 1px solid #e1e1e1; border-right: 1px solid #e1e1e1; }
.centcont { border-left: 1px solid #ffffff; border-right: 1px solid #e1e1e1; }
.rghtcont { border-left: 1px solid #ffffff; }
```

(Date picker, continued)

A similar CSS approach to beveling can be found in the month “button” headers at the top of the control panel. The date picker control panel also introduces the calendar. The cells of the calendar have their own unique style attributes:

- Past date: background-color: #f4f4f4; border: none;
- Current date: background-color: #ffffff; border: none;
- Future date: background-color: #ffffff; border: 1 px solid #cbcbcb
- Font-size: 10px (font size for the days of the week are also 10px)
- Hover background color: #d4ebf9 (shared with grid?)
- Hover border: #61c2ff (inherit from record editor elements static settings)

Time-date picker



The time-date picker is styled identically to the date picker; however, the default display shows the current date and time.

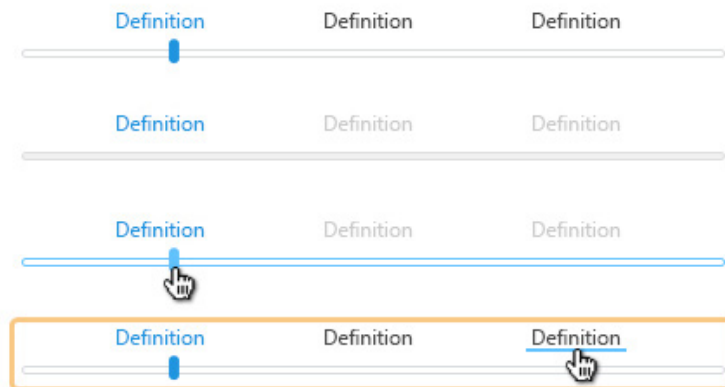
The time-date picker control panel is simply a combination of the time and date control panels.

Sliders

d2 features 3 types of slider controls: standard, single-value range, and dual-value range. Each share the following style cues:

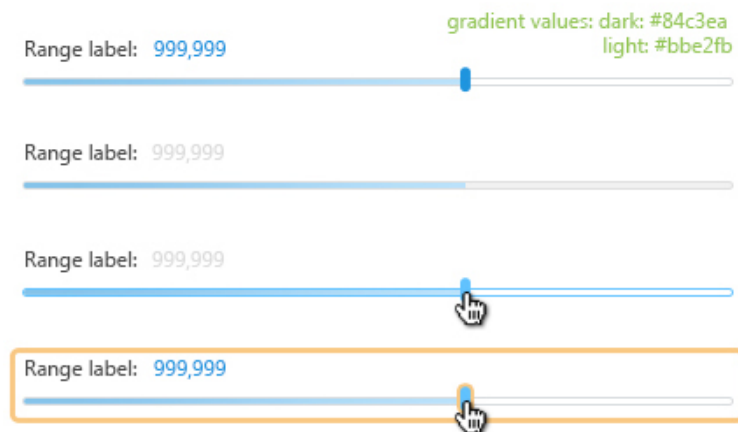
- Font-size: 12px
- Text color: inherited from site
- Selected/active color: #2095df (inherited from site? site-wide, this color is for hyperlinks, however, per a previous discussion, the labels on the sliders cannot be links and labels simultaneously)
- Hover color: inherited from record editor elements
- Range reflected gradient colors: #84c3ea, #bbe2fb (might this be easily handled with a repeating background image?)
- Track borders: inherited from record editor elements border styles
- Track height: 3px
- Track 4 corner radii: 2px (would tracks be more easily handled as an image sprite?)
- Label hover, bottom border: 2px solid

Standard slider

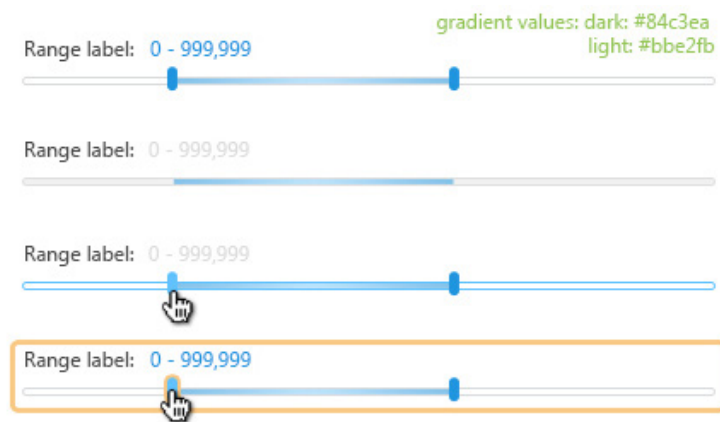


Seems like I recall a request to either expand or change the way focus is handled on the sliders. Need to get confirmation.

Single-range slider



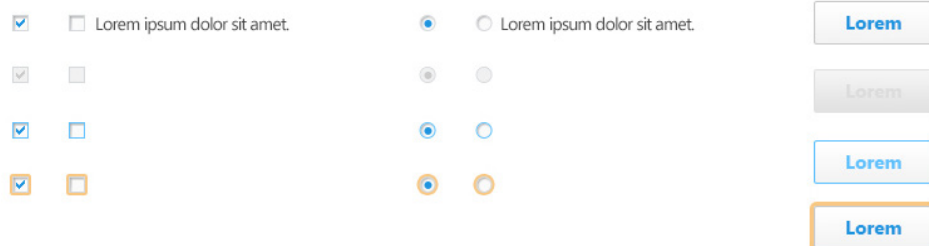
Dual-range slider



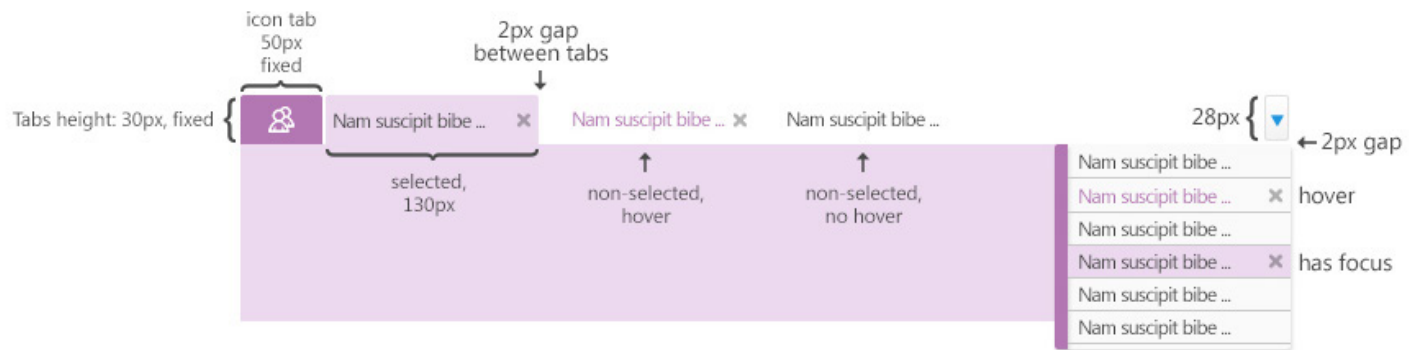
Slider handle states



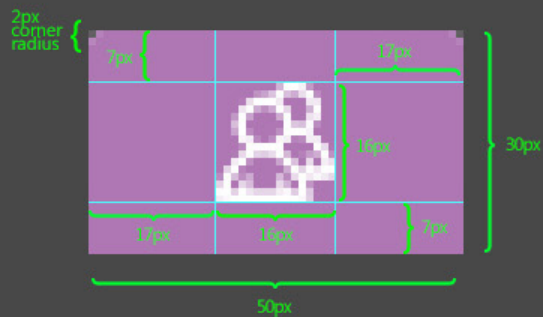
Radio buttons, check boxes, and buttons



Tabs



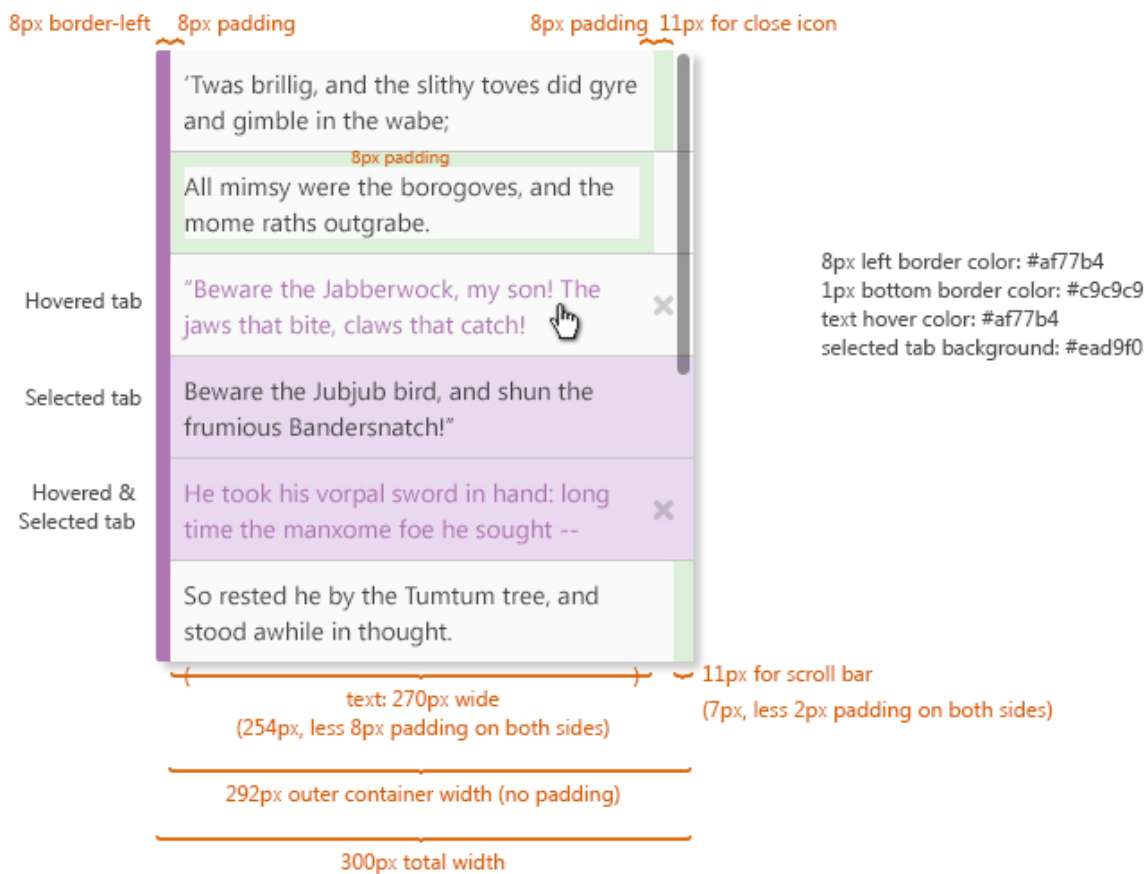
icon tab detail



icon tab, selected



standard tab detail, selected



Grids

Overview

There are two grids in d2: *universal* and *contextual*. Both grids are functionally similar, but visually distinct. The universal grid can appear in both the sidebar and the stager, against any colored background. The contextual grid requires a background color (See *color schemes*), and will not display properly in the sidebar.

Universal grid

Below is an example of the universal grid in a hypothetical, color-agnostic configuration. In this case, the blue accent color is based on the sitewide hyperlink/accent color, and would appear on a white background. No such configuration is currently planned.

	Column header	Column header	Column header	Column header	Column header			
▶ <input checked="" type="checkbox"/>	Data entry	Data entry	Data entry	Data entry	Data entry	🗨	⚙	🔒
<input checked="" type="checkbox"/>	Data entry	Data entry	Data entry	Data entry	Data entry	🗨	⚙	🔒
▶ <input checked="" type="checkbox"/> 🚩	Data entry	Data entry	Data entry	Data entry	Data entry	🗨	⚙	🔒
<input checked="" type="checkbox"/>	Data entry, multiple lines, etc., etc., etc.	Data entry, multiple lines, etc., etc., etc.	Data entry, multiple lines, etc., etc., etc.	Data entry, multiple lines, etc., etc., etc.	Data entry, multiple lines, etc., etc., etc.		⚙	🔒
▶ <input checked="" type="checkbox"/>	Data entry	Data entry	Data entry	Data entry	Data entry	🗨	⚙	🔒
▼ <input checked="" type="checkbox"/>	Data entry	Data entry	Data entry	Data entry	Data entry		⚙	🔒
	Column header	Column header	Column header	Column header	Column header			
	Data entry	Data entry	Data entry	Data entry	Data entry		👤	🔒
	Data entry	Data entry	Data entry	Data entry	Data entry	🗨	✎ Edit	
	Data entry	Data entry	Data entry	Data entry	Data entry		🗑 Remove from library	
▶ <input checked="" type="checkbox"/> 🚩	Data entry	Data entry	Data entry	Data entry	Data entry			
<input checked="" type="checkbox"/>	Data entry	Data entry	Data entry	Data entry	Data entry	🗨	⚙	🔒
<input checked="" type="checkbox"/>	Data entry	Data entry	Data entry	Data entry	Data entry		⚙	🔒
<input checked="" type="checkbox"/>	Data entry	Data entry	Data entry	Data entry	Data entry		⚙	🔒
▶ <input checked="" type="checkbox"/>	Data entry	Data entry	Data entry	Data entry	Data entry	🗨	⚙	🔒
<input checked="" type="checkbox"/>	Data entry	Data entry	Data entry	Data entry	Data entry		⚙	🔒

Colors and style cues

The checkboxes and icons are raster images, and their colors remain consistent throughout the site, as do the text and link colors (#484848 and #2095df, respectively). The icons do have a hover style, which is a 1px border/corner radius around the image, with a color that is tied to the color scheme (see *color schemes*).

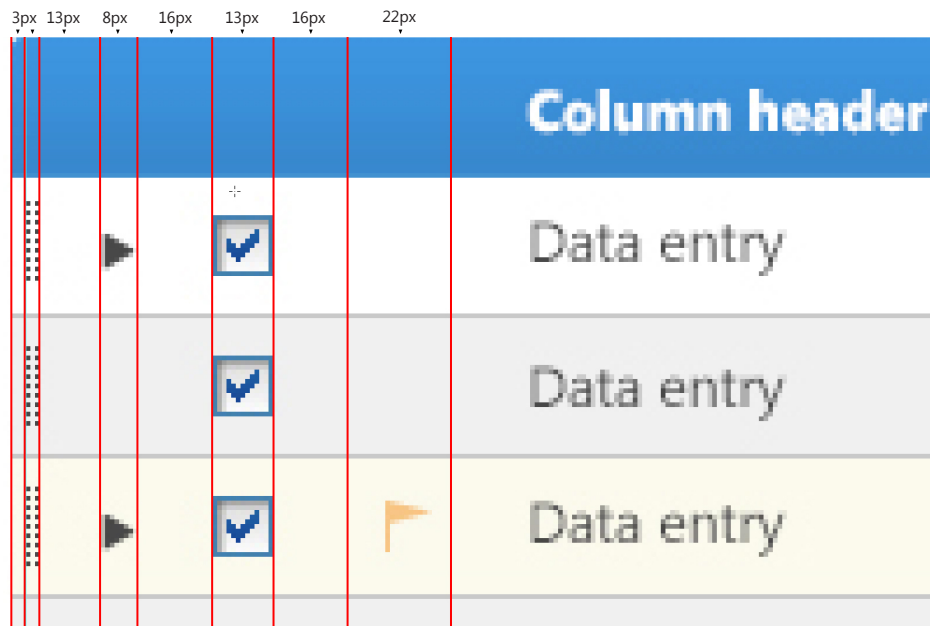
- Header gradient: tied to color scheme.
- Header/subheader text: #ffffff
- Subheader: tied to color scheme.
- Row background A: #ffffff
- Row background B: #f0f0f0
- Row hover: #d4ebf9
- Alert background: #fcfaee
- Warning background: #fceeee
- Row bottom-border: #c9c9c9
- Text: #484848 (inherited from site)
- Hyperlink: #2095df (inherited from site)
- Link hover: tied to color scheme.
- Icon border hover: tied to color scheme.

The universal grid follows most of the stylistic conventions established in the sitewide settings. However, there are some exceptions:

- The 2px corner radius only applies to the top right and left corners of the header.
- Only a 3px padding on the left (see *universal grid spacing* below for more details).
- Both the header and subheader font weights are **bold** (subheaders are not bold in sitewide settings).

Universal grid spacing

The spacing on the left side of the universal grid requires something other than the site-wide, 8px left padding. Refer to the image below:

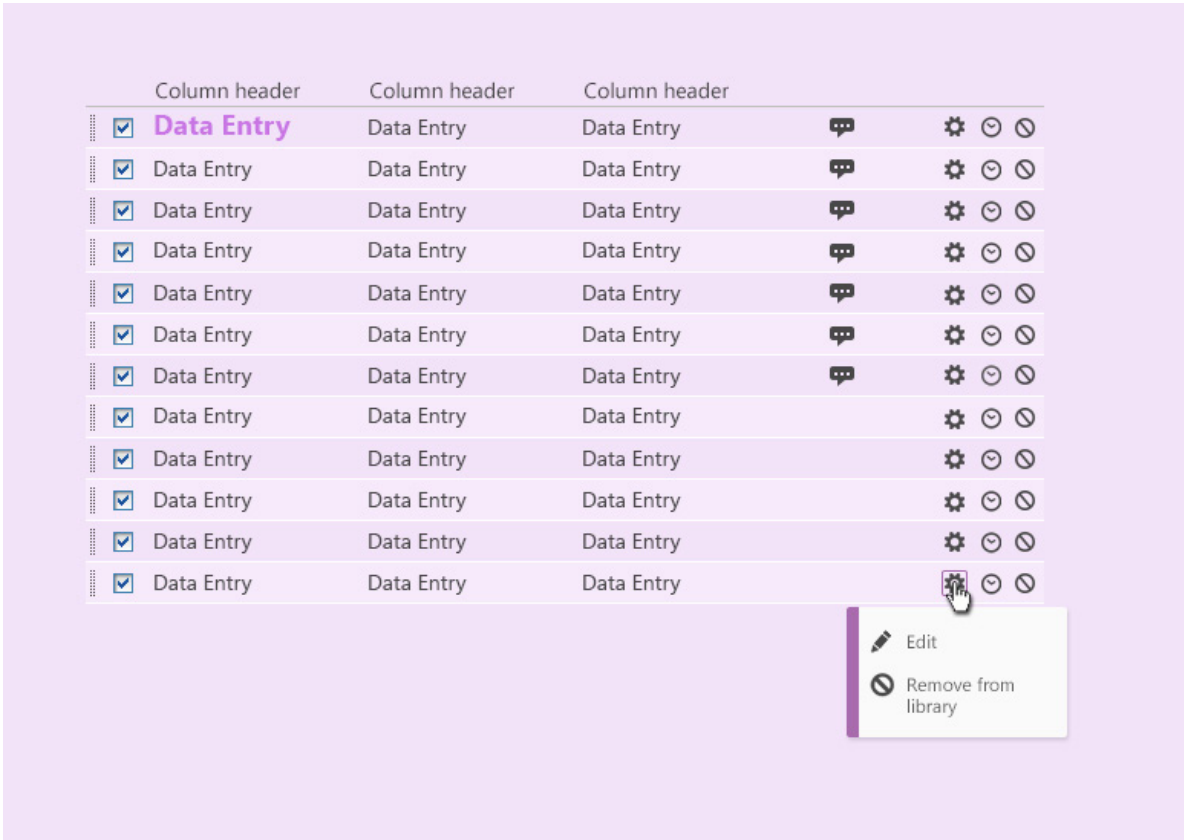


The red lines do not indicate style settings or separate divs; rather, they are a useful visual guide for how the left side of the universal grid should roughly appear.

Contextual grid

Below is an example of the contextual grid against a purple background. The contextual grid is containerless, and its Row A has no set background color, or the color is inherited from the color scheme. The contextual grid features an importance raiser class, which allows for the first cell in a row and a column to be styled differently from the text in the other cells and rows. The contextual grid also differs from the universal grid in that its rows cannot expand and collapse, and its column headers are not bolded.

The current image below does not take into account the spacing required for the warning and alert icons. The spacing for this element can follow the guidelines for the universal grid above. The expand/collapse arrow toggle can be omitted, as this grid does not feature expandability.



Colors and style cues

As with the universal grid, checkboxes and icons are raster images, and their colors remain consistent throughout the site, as do the text and link colors (#484848 and #2095df, respectively). The icons do have a hover style, which is a 1px border/corner radius around the image, with a color that is tied to the color scheme (see *color schemes*).

(Color and style cues, continued)

- Header text: #484848
- Header bottom border: #c2c2c2 (can be inherited from site-wide header border color)
- Row background A: no color, or inherited from stager background.
- Row background B: tied to color scheme.
- Row hover: #d4ebf9
- Alert background: #fcfaee
- Warning background: #fceeee
- Row bottom-border: #ffffff
- Text: #484848 (inherited from site)
- Hyperlink: #2095df (inherited from site)
- Link hover: tied to color scheme.
- Icon border hover: tied to color scheme.
- Importance raiser: tied to color scheme.

The contextual grid retains most of the spacing conventions established site-wide, and in the universal grid. However, there are some exceptions:

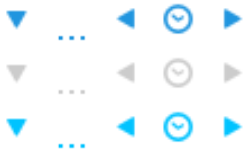
- No space is necessary for an expand/collapse icon, as the grid does neither.

Sprites

Overview

Every attempt has been made to minimize the number of raster graphical elements used by d2, and to make those elements reusable across a variety of elements. Currently, the only raster graphics in use are 10 icon sprites, although other types of raster graphics may be added later.

sprite_combobox.png



dimensions: 72x120px
layout: 5 columns, 3 rows, 24px squares
rows: enabled/focused, disabled, hover
columns: drop down, auto-complete, time/date picker group
enabled/focused: #5894dc
disabled: #cbcbcb
hover: #61c2ff

note: the 24px square is based on the hot area of the combo box, minus the 1px border. the graphics are positioned vertically and horizontally according to their appearance within this hot area.

sprite_slider.png



dimensions: 72x18px
layout: 1 column, 4 rows, 18px squares
rows: enabled, disabled, hover, focus
columns: N/A
enabled: #5894dc
disabled: #cbcbcb
hover: #61c2ff
focused: blue #60c3fe, orange #f9c883

note: the 18px square is based on the height of the graphic, with the focus border. the graphic is horizontally centered (seemed the most appropriate alignment, but i can realign).

sprite_checkbox.png



dimensions: 68x34px

layout: 2 columns, 4 rows, 17px squares

rows: enabled, disabled, hover, focused

columns: checked, unchecked

note: colors handled by graphics. graphics positioned at absolute center.

sprite_radiobutton.png



dimensions: 68x34px

2 columns, 4 rows, 17px squares

rows: enabled, disabled, hover, focused

columns: selected, unselected

note: colors handled by graphics. graphics positioned at absolute center.

sprite_grid.png



34 x 357px

2 rows, 21 columns of 17 x 17px squares

icons/text: #484848 static; #FFFFFF hover

grabby dots, settings, dependencies, schedule, edit, locked, warning, close, arrow set, add to library, nuke, overview, download, disclaimer, add (generic), alert, remove

warning is red (#ff5f45) for both static and hover

alert is orange (#fdc689) for both static and hover

sprite_options.png



dimensions: 30px x 135px

layout: 2 rows, 9 columns of 15x15px squares

multi-colored static; #000000 @ 20% opacity hover

intelligence, security, summer, rain/snow, green, safety, wireless, multimedia, child safety

sprite_page.png



dimensions: 34 x 340px

layout: 2 rows, 20 columns of 17x17 squares

icons/text: #484848 static; #00c3ff hover

link to page, settings, dependencies, schedule, trash, edit, pop-out, warning, close, arrow set (x4), add to library, nuke, print, download, add (generic), alert, remove

notes: warning is red (#ff5f45) for both static and hover. Alert is orange (fdc689) for both static and hover

sprite_buttons.png



dimensions: 30 x 195px

layout: 2 rows, 13 columns of 15x15px squares

icons/text: #2095df static, #61c2ff hover

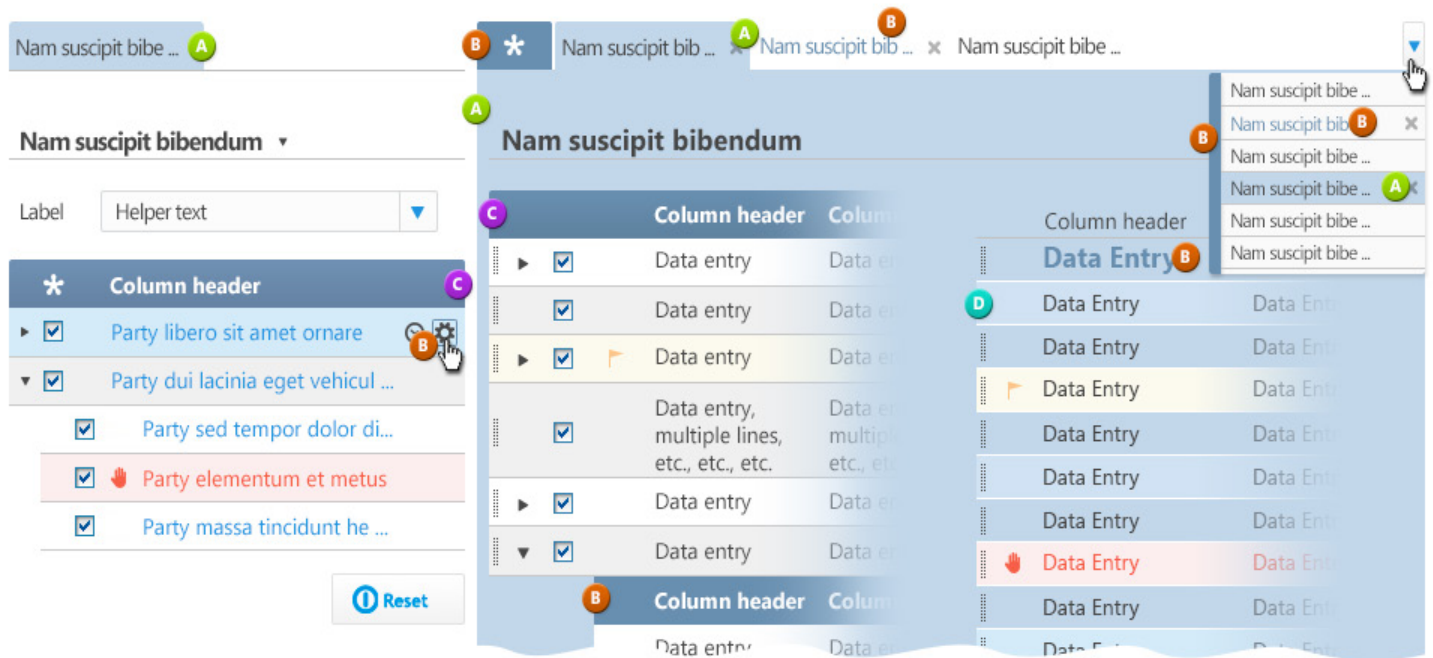
reset, close, update, publish, download, print, arrow set(x4), help, nuke, remove

Color schemes

The following are CSS properties that are inherited, or which remain consistent across color schemes.

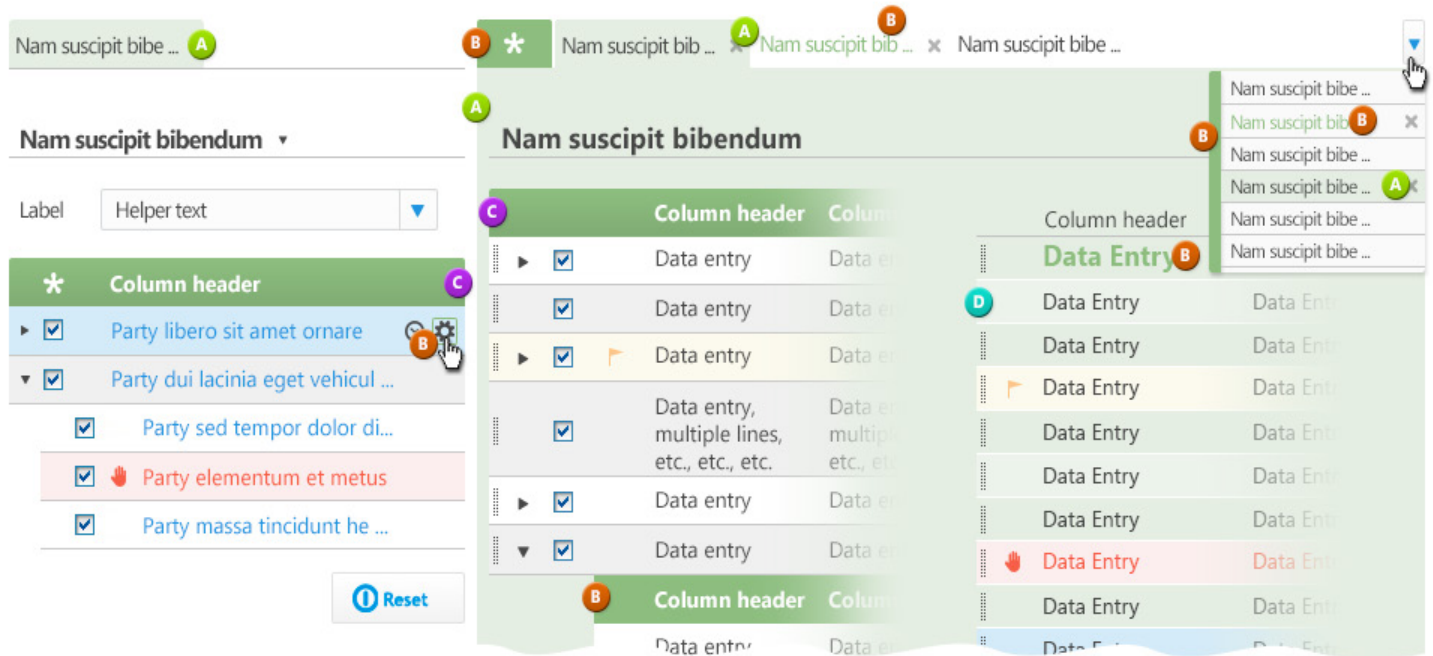
- Header gradient: tied to color scheme.
- Header/subheader text: #ffffff
- Subheader: tied to color scheme.
- Row background A: #ffffff
- Row background B: #f0f0f0
- Row hover: #d4ebf9
- Alert background: #fcfaee
- Warning background: #fceeee
- Row bottom-border: #c9c9c9
- Text: #484848 (inherited from site)
- Hyperlink: #2095df (inherited from site)
- Link hover: tied to color scheme.
- Icon border hover: tied to color scheme.

Blue scheme



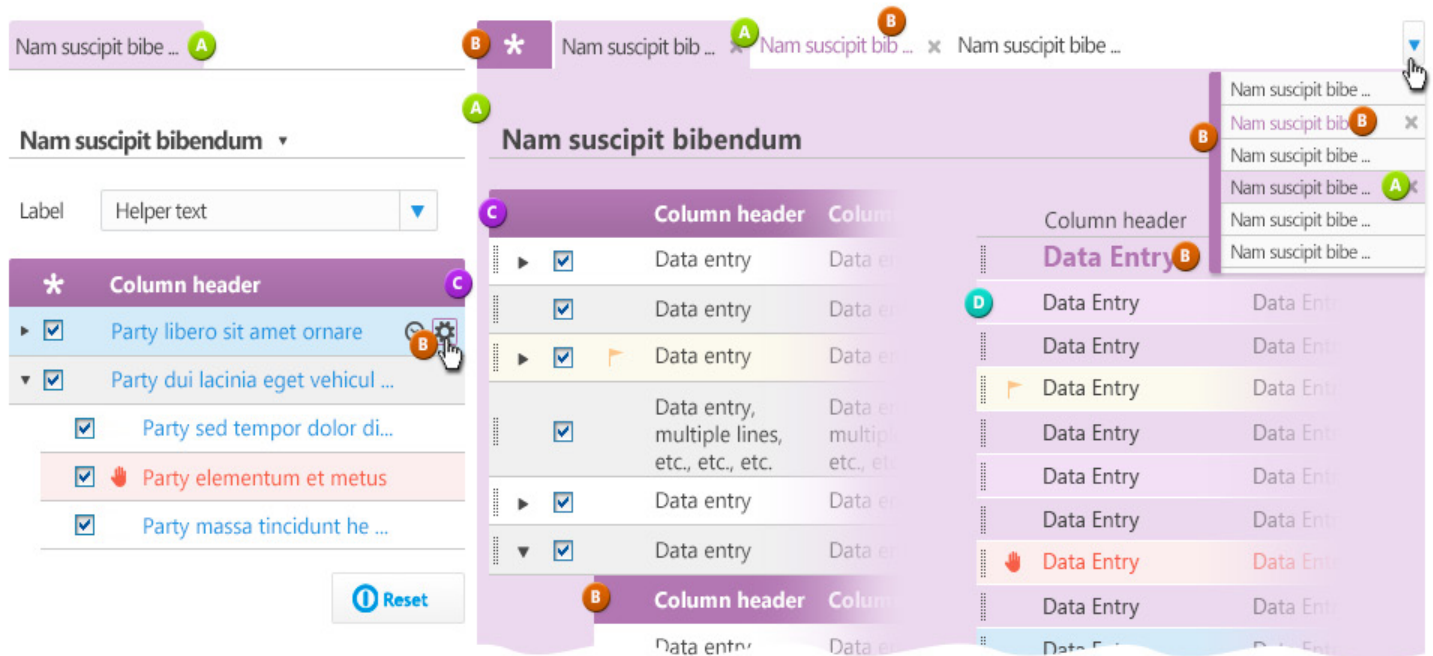
- A** #c2d7ea
- B** #688fb0
- C** #6583a3 #688fb0 (2-tone vertical gradient)
- D** #d0e2f3

Green scheme



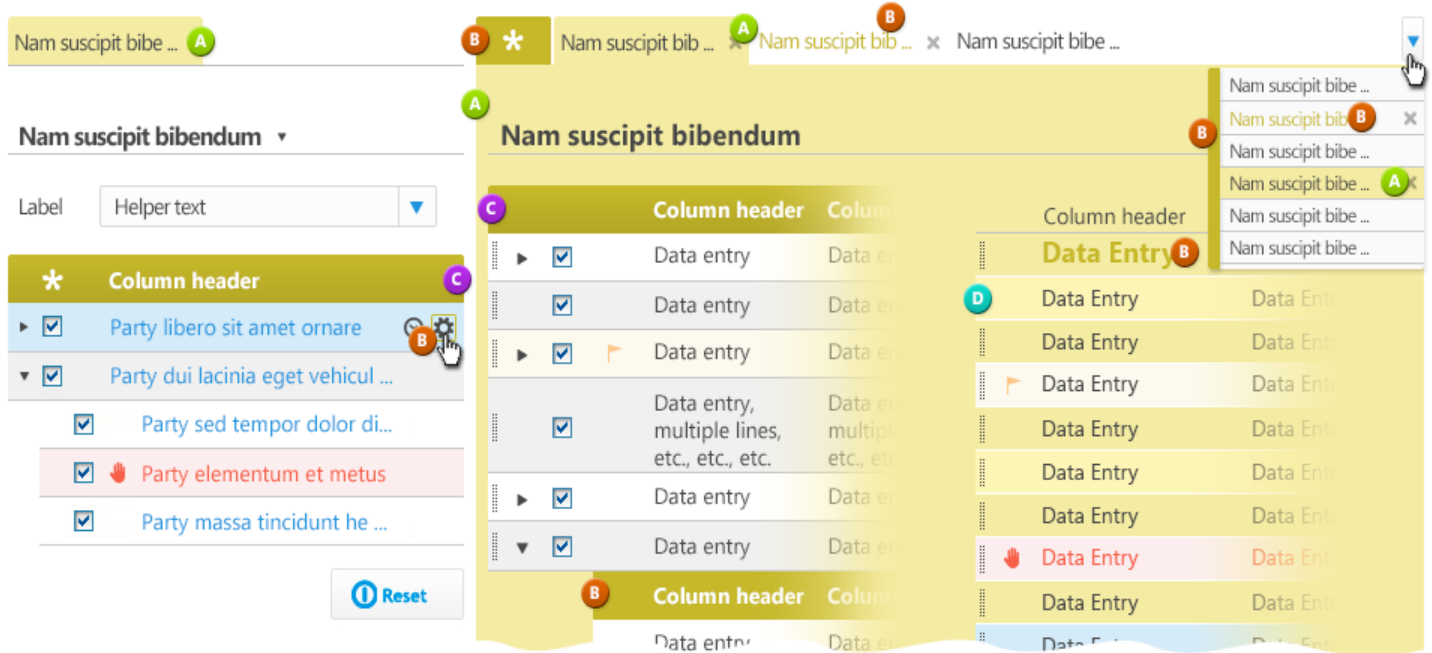
- A #e5eee3
- B #8db77f
- C #87b17b #8db77f (2-tone vertical gradient)
- D #edf3ec

Purple scheme



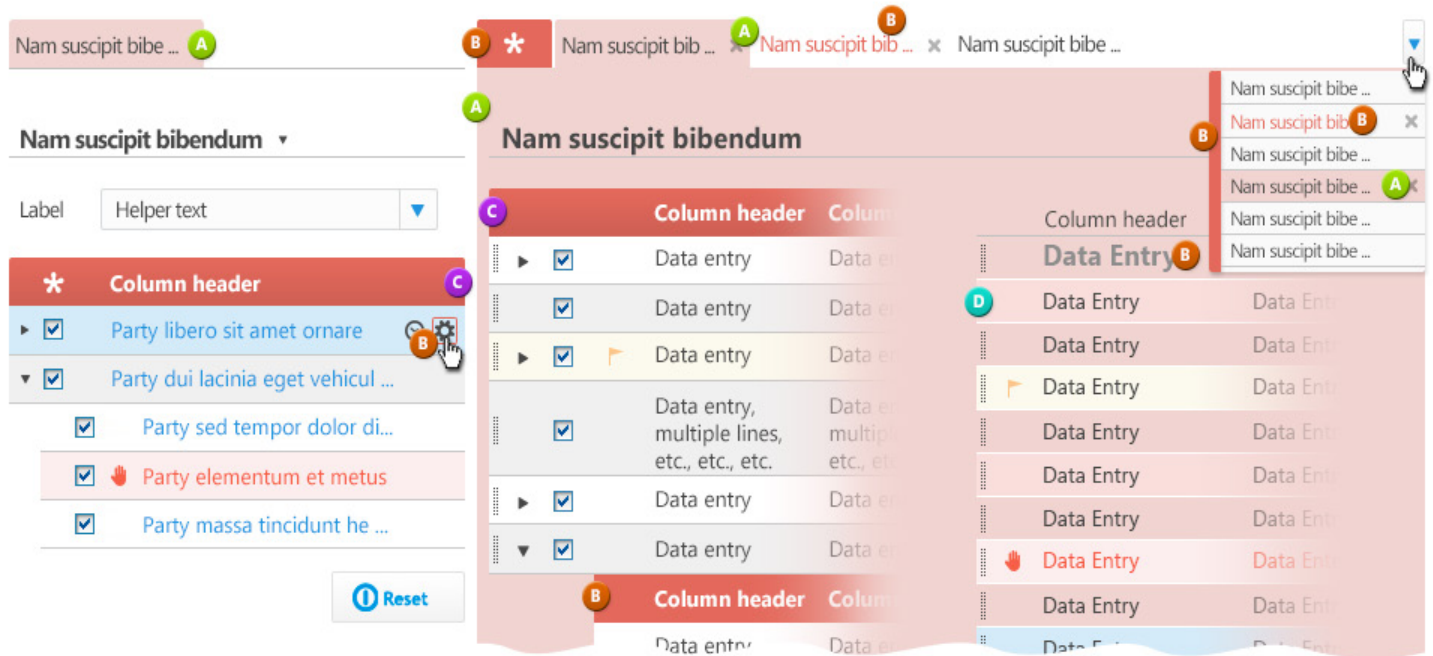
- A #ecd9ef
- B #b377b3
- C #a36ca3 #b377b3 (2-tone vertical gradient)
- D #f3e0f6

Yellow scheme



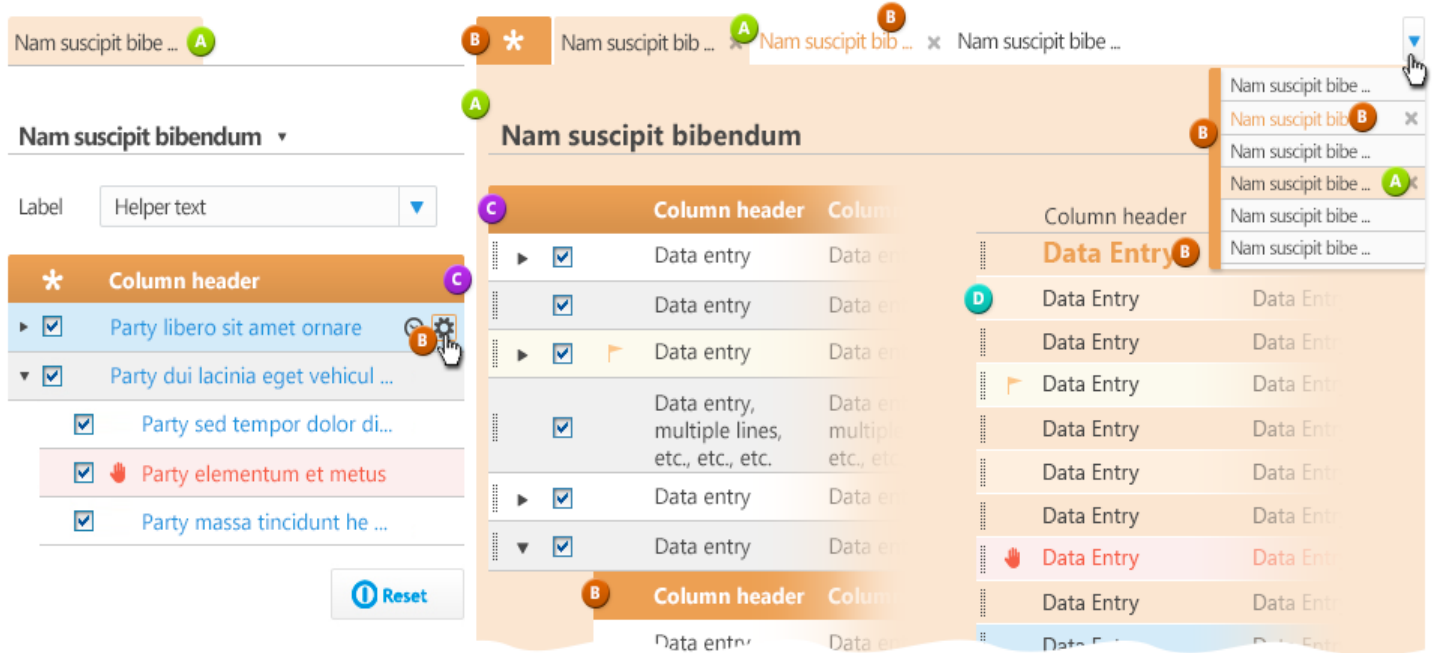
- A:** #f5eca3
- B:** #c6b829
- C:** #b4a725 (2-tone vertical gradient)
- D:** #fdf5b6

Red scheme



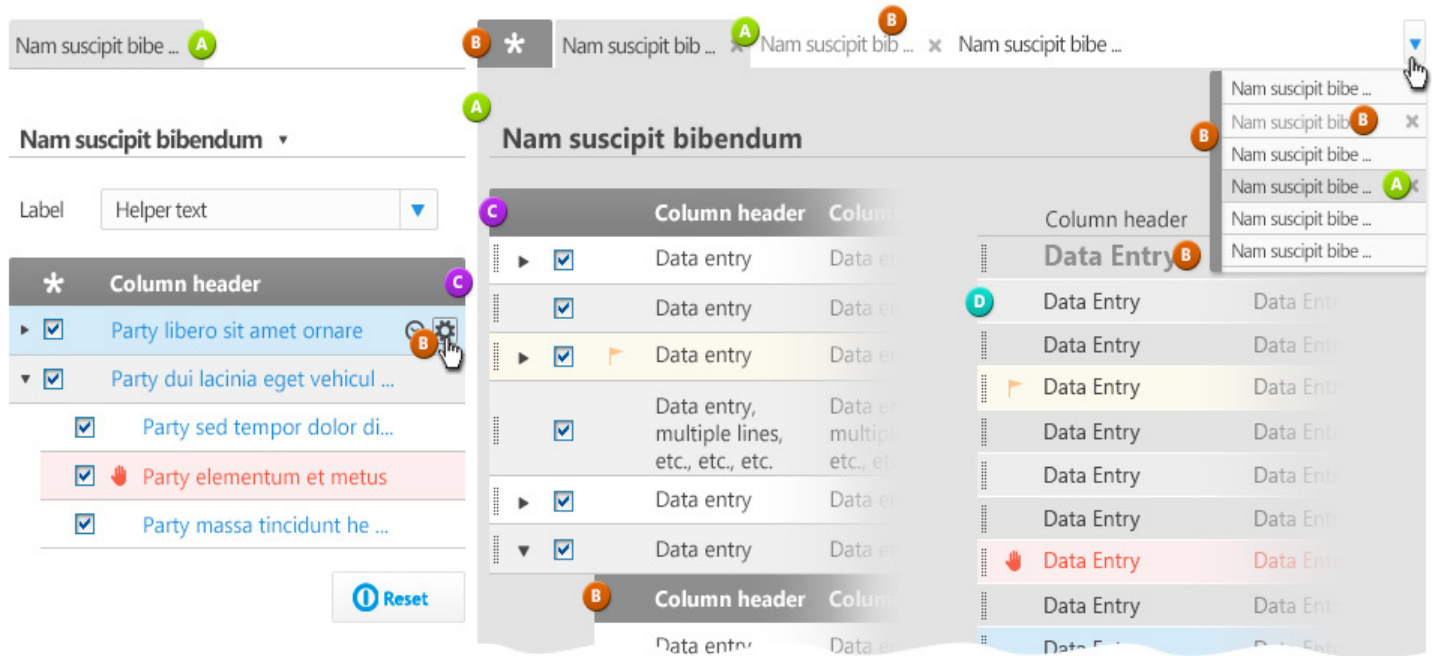
- A #f1d4d1
- B #e4695c
- C #cf6054 #e4695c (2-tone vertical gradient)
- D #f9dedc

Orange scheme



- A #fbe6d1
- B #eda053
- C #d8924c #eda053 (2-tone vertical gradient)
- D #feefdf

Gray scheme



- A #e3e3e3
- B #8e8e8e
- C #818181 #8e8e8e (2-tone vertical gradient)
- D #ededed