# PTX Digital Guidelines

Version 1.0



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## Introduction

Welcome to the PTx Digital Guidelines!

The guidelines are designed to provide clear direction for the use of colors, typography, icons, graphics, and UI best practices.

By aligning these key elements we create a cohesive brand presence that fosters trust and familiarity with our users.

These guidelines are meant to be *descriptive*, *not prescriptive*. Many of the principles of this guide were inspired by Tailwind CSS's **Refactoring UI**. If you are in need of direction beyond these guidelines, we recommend starting there and with the additional resources at the end of this document.

Happy designing!







# Digital vs. Visual Guidelines

While both our guidelines ensure consistency in design, these digital guidelines serve a separate purpose from our visual brand guidelines.

These guidelines emphasize functionality and usability. In contrast, the **visual brand guidelines** focus on maintaining the **brand identity** through elements like logos, colors, typography, and overall aesthetic.

While they work together, the **digital guidelines** prioritize **user interface and experience**, whereas our visual brand guidelines help us maintain a cohesive brand look and feel.

**Download the Visual Brand Guidelines here** 



## 05

## Colors

## Digital Palette

In our <u>Visual Brand Guidelines</u>, colors fall into weighted groups based on quantity of color used in each design. For our <u>Digital Guidelines</u>, our colors are organized by use-case, and expand the Visual Brand Guidelines palette to account for the additional needs of our digital interfaces.

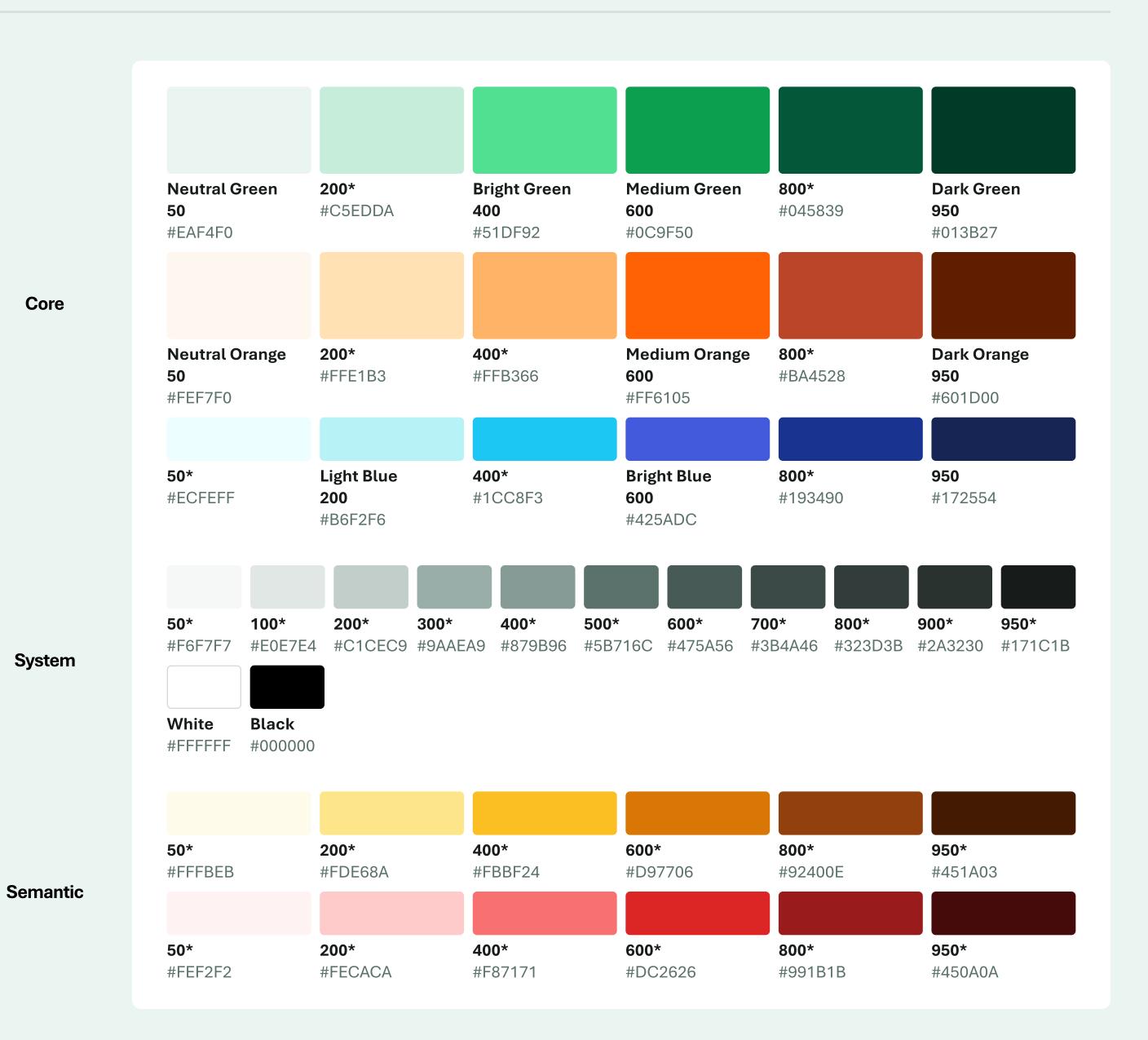
Digital colors fall into the following groups:

- 1. Core colors
- 2. System colors
- 3. Semantic colors

## A Note on Digital Colors

Colors marked with an asterisk (\*) are for use in digital products and should not be incorporated into print or marketing materials.

Digital colors should only be utilized when using a primary brand color would be inaccessible, distracting, or hinder user experience. Wherever possible, **utilize our primary brand colors first** before digital colors.



## Core Colors

Core colors are the foundation of our brand's visual identity and play a crucial role in creating recognition and consistency. These colors should be used thoughtfully and consistently to convey the brand's personality and tone.

These colors are especially important for high-impact elements such as **hero sections**, **primary action buttons**, **hyperlinks**, **and navigation menus**, ensuring users can easily identify key interactions.

By using core colors for these essential elements, we not only reinforce brand awareness but also enhance usability and create a cohesive, visually engaging experience across all platforms.

#### Green Backgrounds, text color, patterns, and **Bright Green Medium Green** 200 **Neutral Green** 800 **Dark Green** accents. #C5EDDA 400 600 #045839 950 #EAF4F0 #0C9F50 #013B27 #51DF92 Orange Backgrounds, text color, patterns, and **Neutral Orange** 200 400 **Medium Orange** 800 **Dark Orange** #BA4528 #FFE1B3 #FFB366 950 accents. #FEF7F0 #601D00 #FF6105 Blue 800 **Light Blue** 400 **Bright Blue 50** 950 Text and #1CC8F3 #ECFEFF 200 #193490 #172554 accents. #B6F2F6 #425ADC **Examples Button Hyperlink Button Button** Hyperlink Button **Button Button Button Hyperlink** Hyperlink **Button Button** Hyperlink **Projects** + New Project Dashboard History **♣** PTx Dashboard **Projects** History + New Project

## System Colors

System colors play a vital role in creating a clear visual hierarchy and improving the functionality of our interfaces. These colors are designed to complement the core brand colors, providing contrast and balance to ensure readability and accessibility.

System colors are typically used for elements like **text**, **backgrounds**, **and borders**, helping to establish a clear separation between different components of the interface.

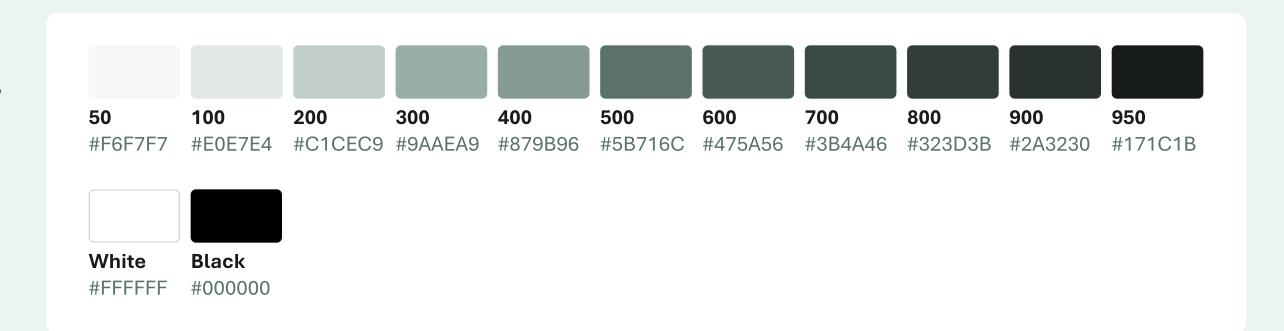
By using system colors strategically, we enhance the user experience by guiding attention, defining sections, and making important content more prominent.

#### Gray

Backgrounds, surfaces & text color.

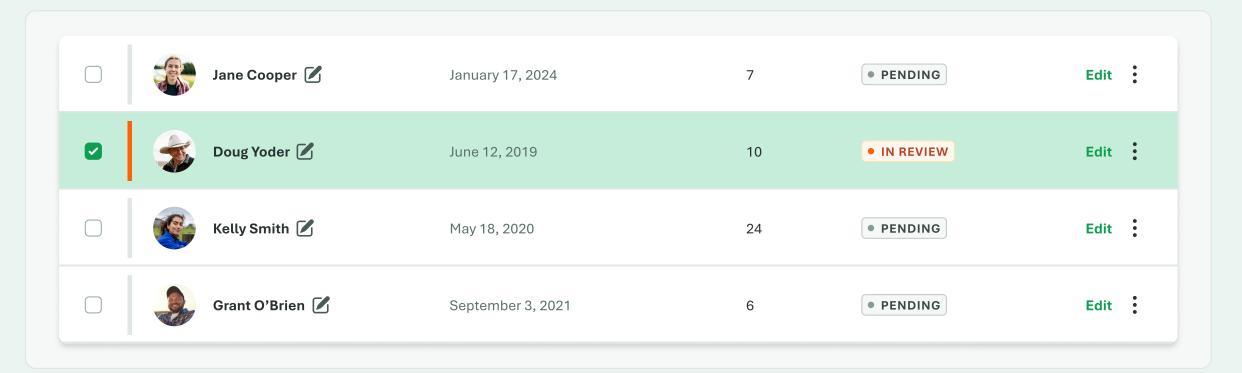
#### Base

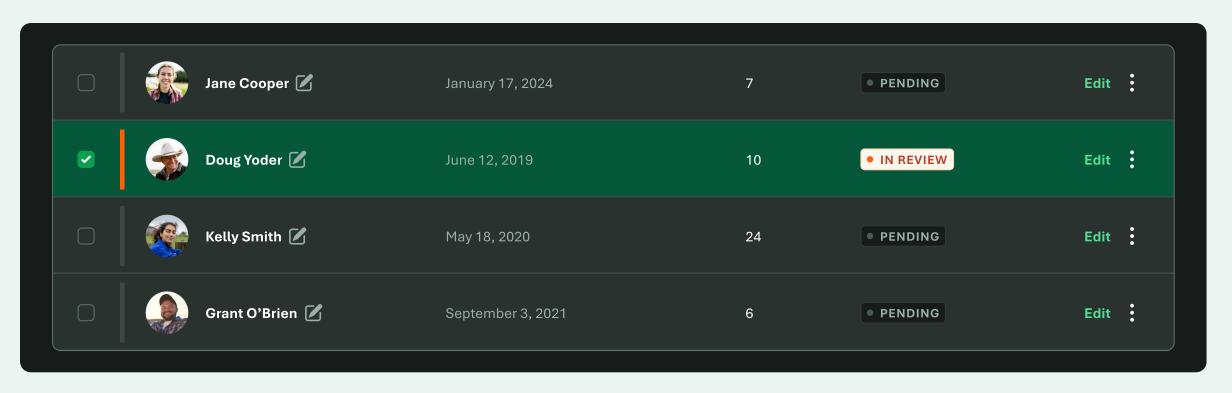
Backgrounds & text color.



## Examples

Tip: Gray hues can be inverted to quickly create dark modes. (e.g. 50 becomes 950, 100 becomes 900, etc.)





# Semantic Colors

Semantic colors are used to convey meaning and provide feedback to users by representing specific states or statuses.

For example, a **red** color is commonly used to indicate errors, such as a form validation failure, alerting the user to correct their input. Similarly, a **yellow** color may represent a warning, such as when deleting an item or performing a potentially irreversible action.

By incorporating semantic colors for statuses like success, warning, error, and information, we improve clarity and usability, ensuring users can easily interpret and respond to system messages or prompts.

\*Core green & blue hues should be used to for success & information states respectively to reinforce our primary brand colors.

#### **Neutral Green** 200 **Bright Green Medium Green** 800 **Dark Green** #C5EDDA #045839 600 950 #EAF4F0 #51DF92 #0C9F50 #013B27 50 200 400 600 800 950 #FDE68A #FFFBEB #FBBF24 #D97706 #92400E #451A03 **50** 200 400 600 800 950 #FEF2F2 #FECACA #F87171 #DC2626 #991B1B #450A0A **50 Light Blue** 400 **Bright Blue** 800 950 #ECFEFF 200 #1CC8F3 600 #193490 #172554 #B6F2F6 #425ADC

### Examples

Green\*

Success

states.

Yellow

Red

states.

Blue\*

Information

without

state.

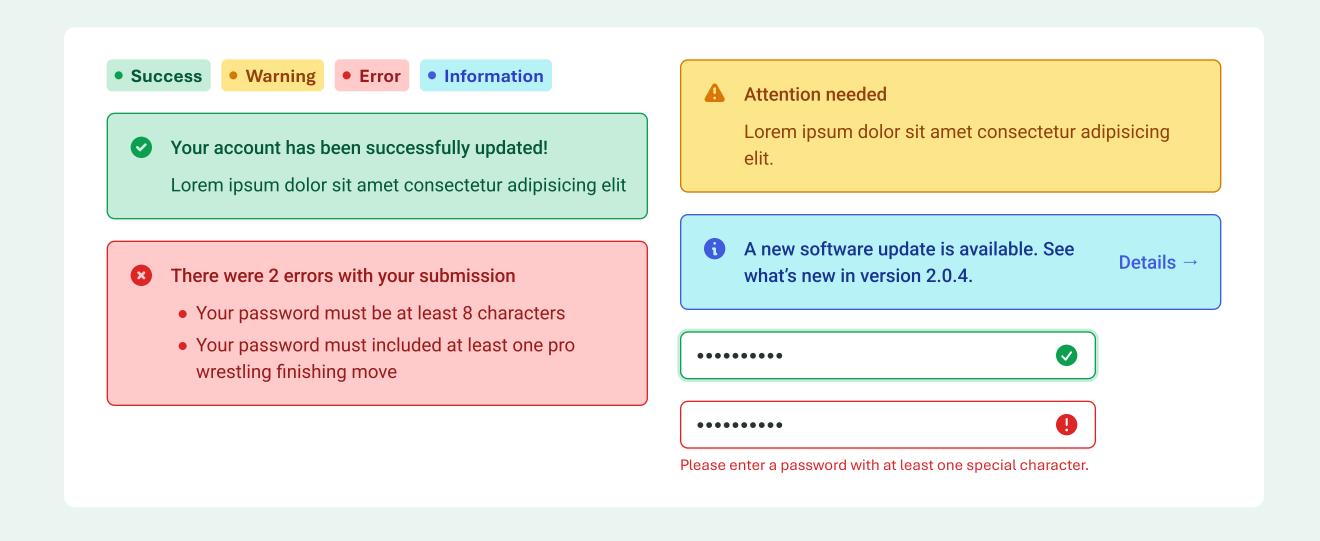
success/

warning/error

Warning &

caution states.

Error & danger



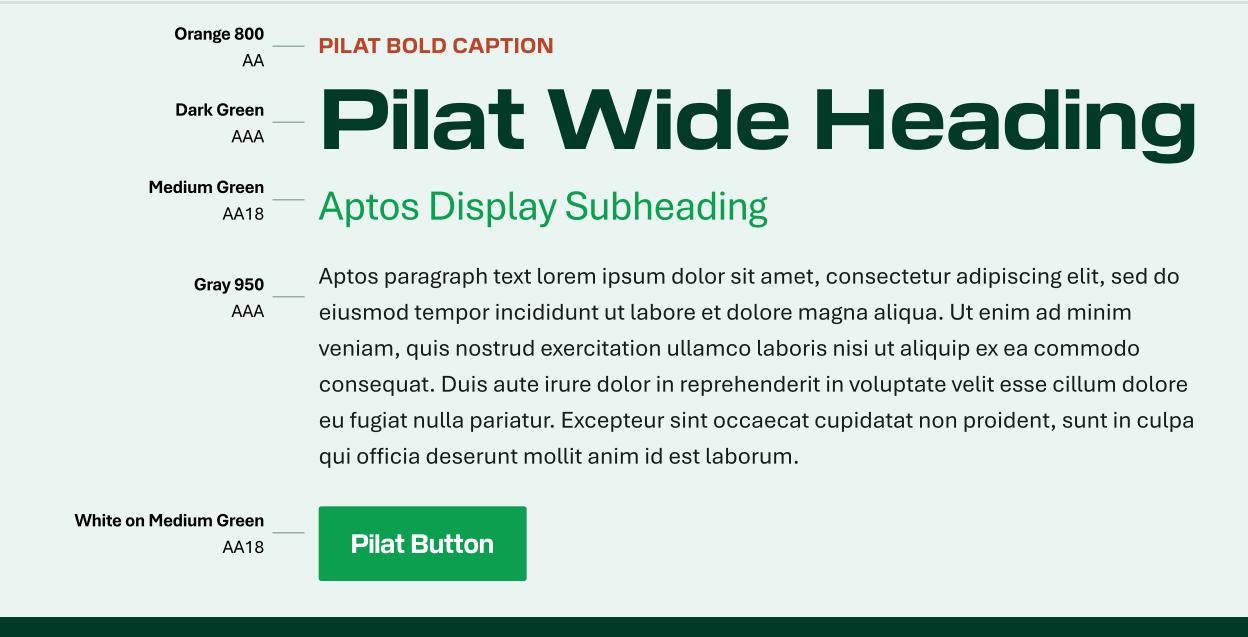
## Accessibility

Color accessibility ensures all users, including those with visual impairments, can easily interact with digital content. By using high contrast and avoiding reliance on color alone with icons, we create more inclusive and readable designs.

The color contrast ratios on the following page are based on the <u>WCAG 2.0 guidelines</u> for text and background color combinations.

- AAA = Best contrast ratio for text.
- AA = Minimum contrast ratio for text.
- AA18 = Lowest acceptable contrast ratio, unbolded text must be larger than 18pt (24px), bold text must be larger than 14pt (18px).

Find all color combination accessibility scores here





# Typography

## **Fonts**

The PTx brand uses two main fonts, Pilat and Aptos, each serving a distinct purpose. The careful use of these fonts ensures consistency while allowing flexibility for emphasis and clarity.

## **Pilat**

Pilat is a custom font for the PTx brand, used only for large headings and page titles.

**Styles:** Wide or Regular

Weights: Regular, Demi, or Bold

## **Aptos**

Aptos is our default system font, suited for all other text in our applications.

**Styles:** Regular or Display **Weights:** Regular or Bold

When neither Pilat or Aptos is available, fall back to a default system **sans-serif** font.

Pilat Regular
AaBbCcDdEeFfGgHhliJjKkLlMm
NnOoPpQqRrSsTtUuVvWwXxYyZz
1234567890

Pilat Wide Demi
AaBbCcDdEeFfGgHhliJjKkLlMm
NnOoPpQqRrSsTtUuVvWwXxYyZz
1234567890

Aptos Regular

AaBbCcDdEeFfGgHhliJjKkLlMm

NnOoPpQqRrSsTtUuVvWwXxYyZz

1234567890

Aptos Display

AaBbCcDdEeFfGgHhliJjKkLlMm

NnOoPpQqRrSsTtUuVvWwXxYyZz

1234567890

Pilat Demi
AaBbCcDdEeFfGgHhliJjKkLlMm
NnOoPpQqRrSsTtUuVvWwXxYyZz
1234567890

Pilat Wide Bold
AaBbCcDdEeFfGgHhliJjKkLlMm
NnOoPpQqRrSsTtUuVvWwXxYyZz
1234567890

Aptos Bold
AaBbCcDdEeFfGgHhliJjKkLlMm
NnOoPpQqRrSsTtUuVvWwXxYyZz
1234567890

Aptos Display Bold
AaBbCcDdEeFfGgHhliJjKkLlMm
NnOoPpQqRrSsTtUuVvWwXxYyZz
1234567890

## Font Hierarchy

Font hierarchy helps guide users through content by using different fonts at various levels, ensuring both readability and visual impact across our designs.

## **Pilat Wide**

Use for main headings only, as overusing it can be visually overwhelming and hinder readability.

## **Aptos Display**

Utilize for large subheadings where readability and tight spacing are necessary.

## **Aptos regular**

All other body text should be Aptos regular.

## Pilat regular

Use for captions, buttons, & badges in moderation.

#### Hierarchy example

#### **Eyebrows/Captions**

Pilat Wide Bold All-caps Letter spacing 3%

#### Headings

Pilat or Pilat Wide Bold Line height 100% Letter spacing 3%

#### **Subheadings**

Aptos Display Bold Line height 120% Letter spacing 0%

#### **Paragraph**

Aptos
Line height 150%
Letter spacing 0%

#### **CTA/Buttons**

Pilat Bold Line height 100% Letter spacing 2%

#### **ABOUT US**

## Advanced Technology Built For Farmers

Maximize every equipment pass on your farm.

PTx is reshaping what's possible for farmers around the world by putting farmers at the center of every innovation. Our mixed-fleet smart farming and autonomy solutions are designed to connect, control and use each farmers' choice of equipment. By putting farmers first, our products are designed to solve your toughest ag challenges, with technology that works across your fleet.

**Learn more** 

Find a Dealer

# Letter Spacing & Line Height

Proper line height and letter spacing are essential for ensuring text is readable and visually balanced.

## Do's

- Increase letter spacing for all caps: Slightly widen the letter spacing by 3-5% when using all caps to improve legibility and balance.
- Use larger line heights for smaller text: Apply a line height of 120-150% of the font size to ensure body text remains readable and doesn't feel cramped.

## **Don'ts**

Don't apply excessive line height to headings: Avoid large line heights for headings, as it can reduce the visual impact. Aim for 100-110% line height.

### ABOUT US — 0% letter spacing

The 20|20 can be utilized as a monitor to simply set the planter but it also powers the most agronomically advanced systems on the market.



## ABOUT US — 3% letter spacing

The 20|20 can be utilized as a monitor to simply set the planter but it also powers the most agronomically advanced systems on the market.



# Precision Ag — line height Solutions Made For Your Farm

From software to hardware to other precision services, PTx Trimble offers a wide variety of technology to fit your farm.



# Precision Ag - line height Solutions Made For Your Farm

From software to hardware to other precision services, PTx Trimble offers a wide variety of technology to fit your farm.



## lcons

## Icon Packs

Icons are a powerful way to communicate ideas in limited space. While pairing them with text is often helpful, icons can sometimes stand alone for clarity.

## **Custom Icons**

Our custom icons help communicate familiar concepts to our users, like agricultural equipment or crop icons. Find these icons in the PTx Brandfolder.

See guidelines for creating custom icons on the following page.

## System Icons

Heroicons v.2 is our default pack for general use in apps and web. These icons come in solid, outline, mini, & micro variants. Heroicons can be downloaded here.

### Outline

## Custom











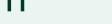


























































(x)







































































































## Creating Icons

Some designs may require additional icons not found in these packs. Use the following guidelines to create SVG icons in keeping with our brand aesthetic.

## Stroke weight

Keep stroke weights at no larger than **1.125pt or 1.5px** when designing at a 24x24px ratio.

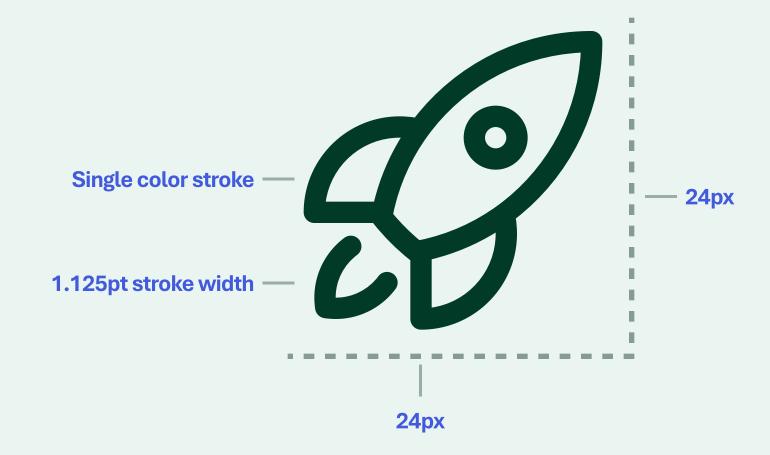
## **Variants**

Creating multiple icon variants will ensure your icons can be use in various elements. **Outline variants** should be single color strokes while **solid variants** can be outlined strokes that use a single fill color.

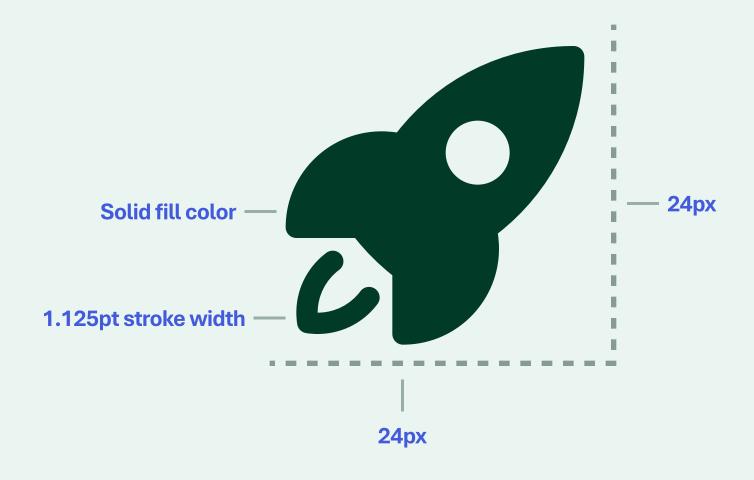
## Complexity & Scale

Err on the side of simplicity to make icons scalable and easily recognizable. Your icons should be a **flattened vector** with paths that use a **single color**.





Solid



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# Graphics

## **Row Pattern**

The row pattern draws inspiration from the PTx logo and represents our commitment to accuracy & consistency.

## Do's

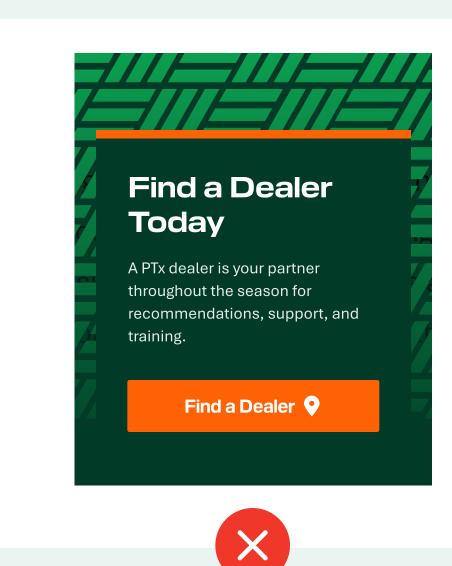
- Use the pattern as a single row or repeated grid:
  Apply the pattern in these formats to maintain consistency.
- Ensure vertical edges are flush within the containing element: The pattern should fit cleanly within its container.

## **Don'ts**

- Don't place text on top of the pattern: This can hinder readability and clarity.
- Don't rotate or flip the pattern: Keep the pattern in its original orientation.

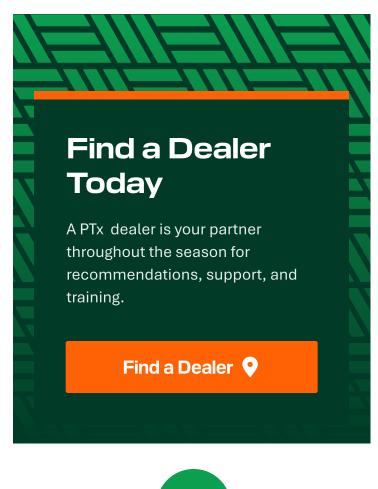














## Section-Solid

This section traces back to the solid half of our symbol and adds visual interest, especially in hero sections.

## Do's:

- Use high-quality images within the shape: Consider adding depth by incorporating high-resolution images.
- Start subtle: Begin with a simple design and gradually introduce contrast or elements as needed, following the "less is more" approach.

#### Don'ts:

- Don't use both the row pattern and the semicircle:

  Choose one design element to maintain a cohesive look.
- Don't add a border to the semicircle: The semicircle should remain borderless.

## **Guidance Control**

PTx Trimble's guidance controllers, radios and receivers help calculate the actual position of your equipment for improved accuracy, even in difficult conditions.

Find a Reseller  $\rightarrow$ 





## **Guidance Control**

PTx Trimble's guidance controllers, radios and receivers help calculate the actual position of your equipment for improved accuracy, even in difficult conditions.

Find a Reseller  $\rightarrow$ 





## Hero Graphic

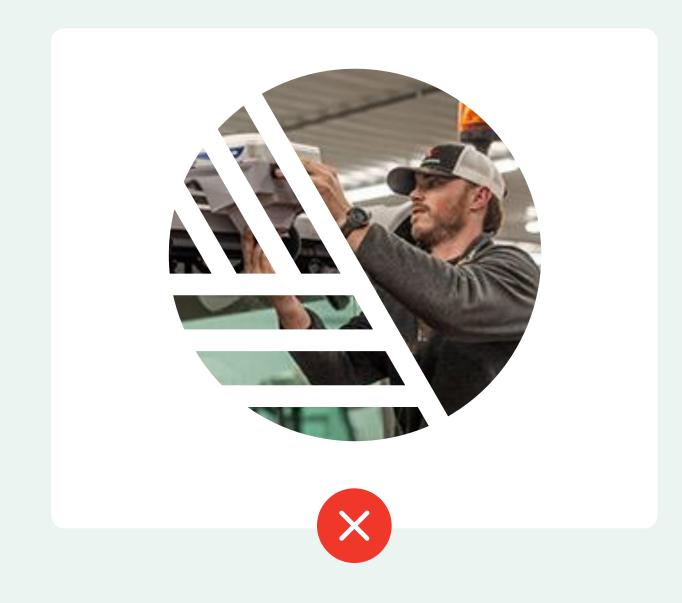
The PTx logo symbol can be used as an image mask to create eye-catching hero sections.

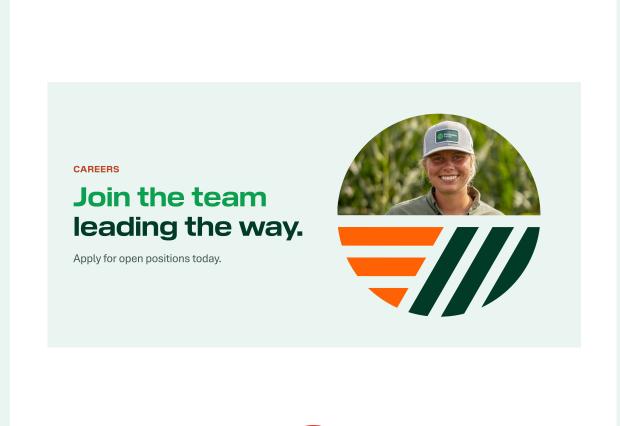
## Do's:

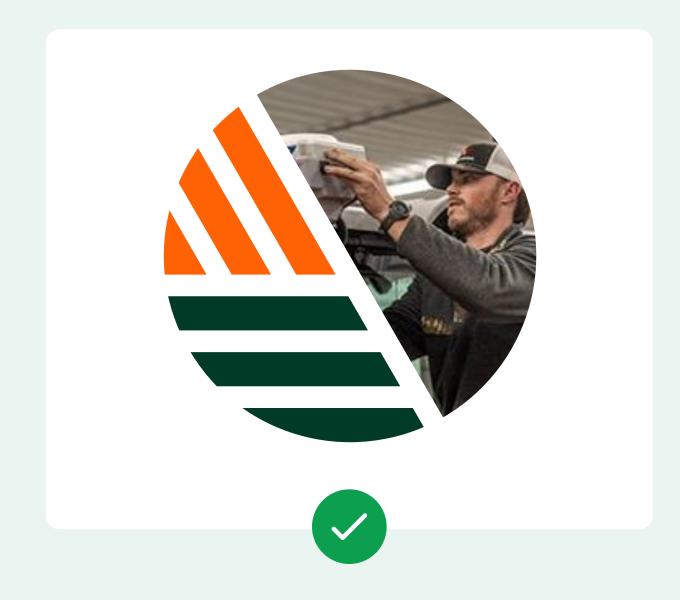
Use imagery that supports the story: Ensure the imagery aligns with and enhances the narrative, rather than appearing decorative or distracting.

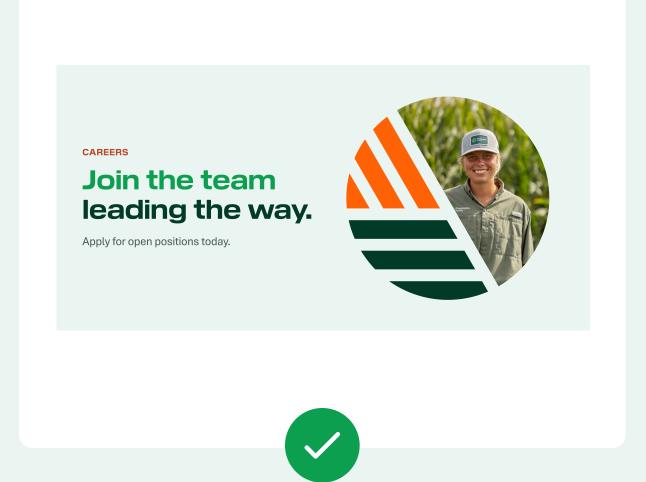
## Don'ts:

- Don't place media outside the semi-circle: Only use media within the semi-circle portion of the symbol to maintain consistency and avoid awkward cropping.
- **Don't rotate the symbol:** When masking an image the symbol, should always remain upright without rotation.
- Don't alter the colors of the hero graphic: Keep the original colors, and either use a solid color, still image, or video for the semicircle.











## Section-Lines

This section traces back to the line-patterned half of our symbol and can be utilized as a standalone graphic to accent a hero or content section.

## Do's:

Anchor the treatment to the edge: Ensure the treatment is always connected to the edge of the application for a cohesive look.

## Don'ts:

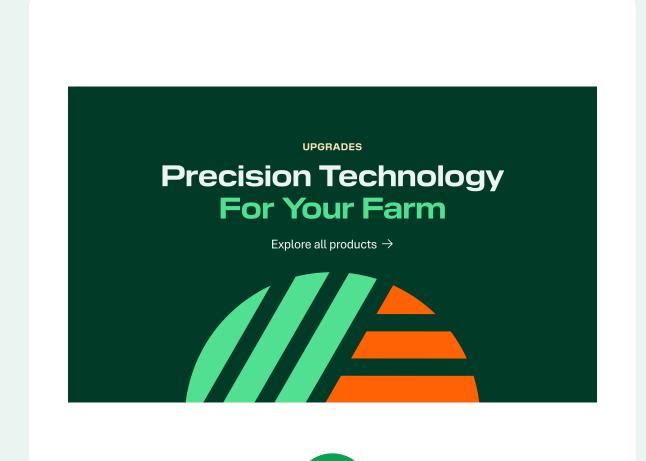
- **Don't float the line section:** Always anchor it to an edge and never position it in vertical center of the application.
- Don't crop too far into the lines: Ensure all six lines are fully visible within the application.
- **Don't place text over the line section:** Even with subtle versions, avoid putting text over the lines to maintain clarity.















# UI Best Practices

## Visual Hierarchy

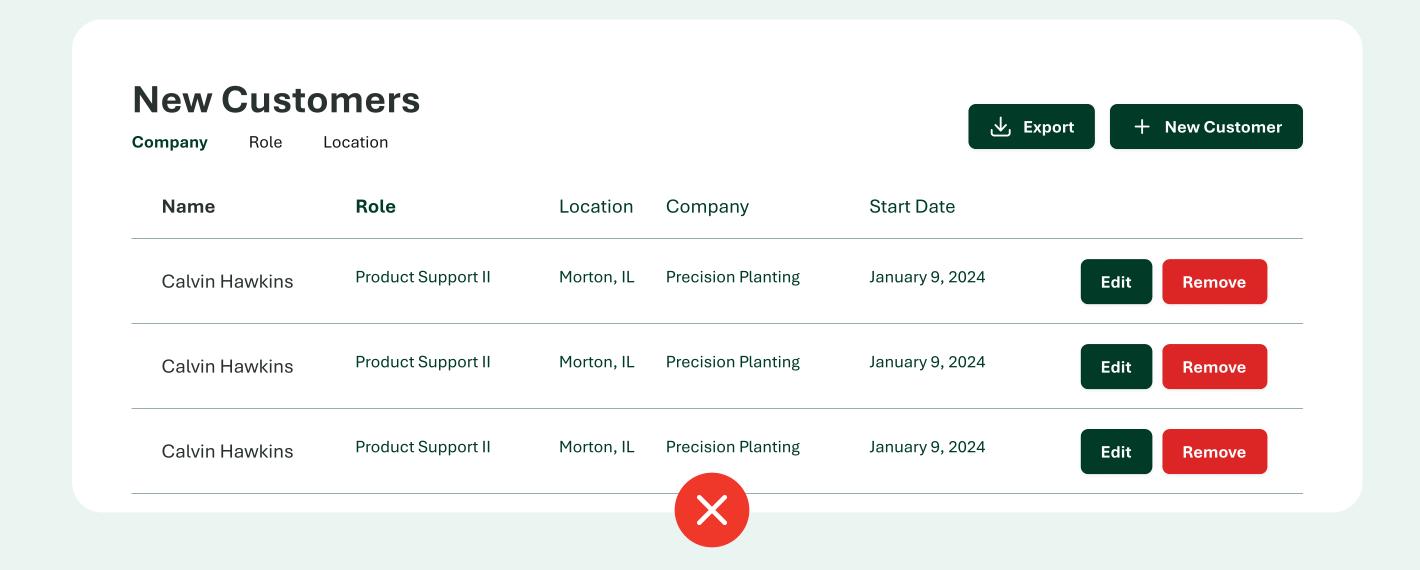
Visual hierarchy helps guide users by showing the relative importance of different elements in an interface, making it easier to understand and navigate.

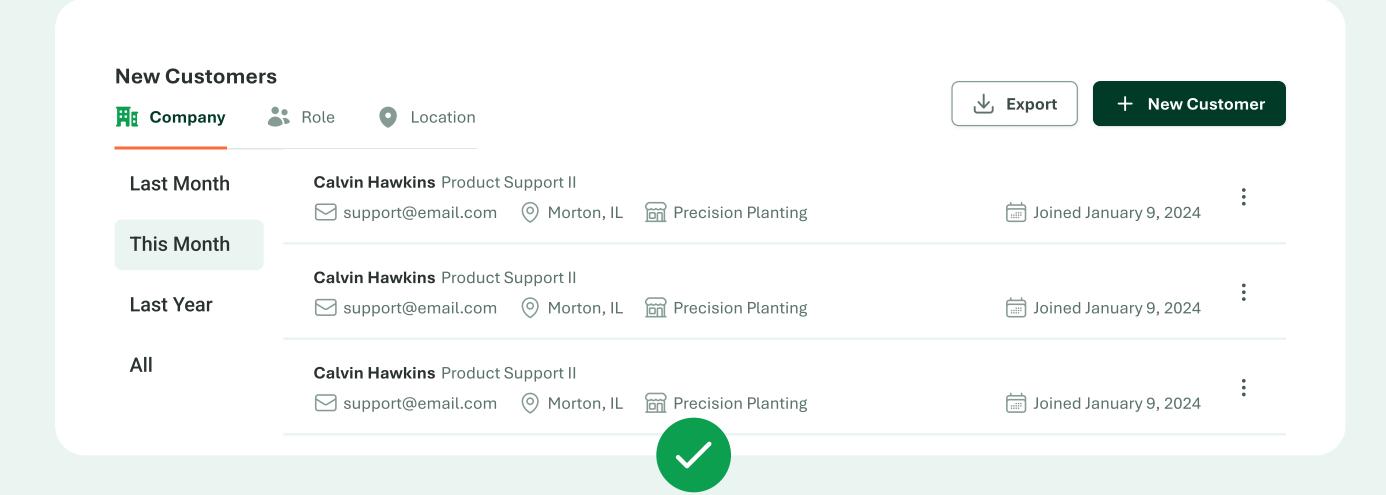
## Do's:

- Prioritize interface elements: Decide which actions or elements are most important to guide user focus, using a hierarchy of variants (e.g. Solid button » Outlined button » Text link)
- **De-emphasize supporting information:** Reduce the visual emphasis on less critical information to avoid clutter.

### Don'ts:

Don't give equal priority to all elements: Avoid clutter by ensuring not every item competes for attention, allowing users to scan the page easily.





## Spacing

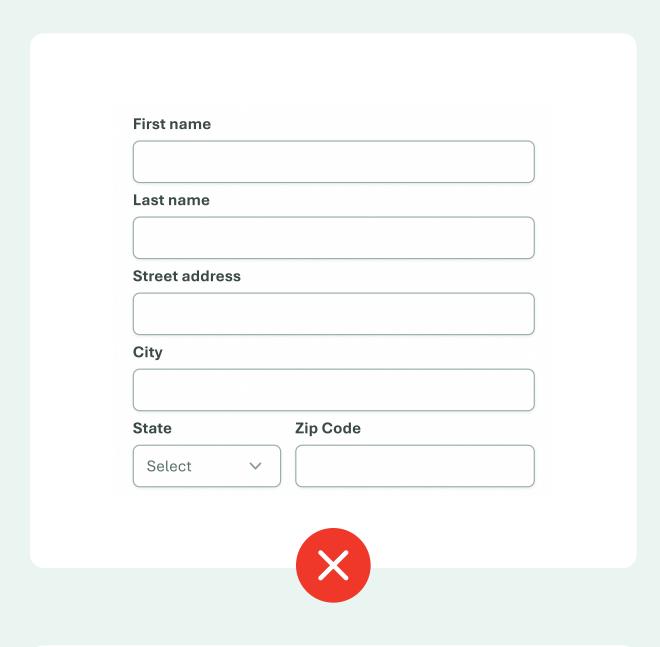
Proper spacing between elements helps users clearly identify which items belong together and improves overall clarity in design.

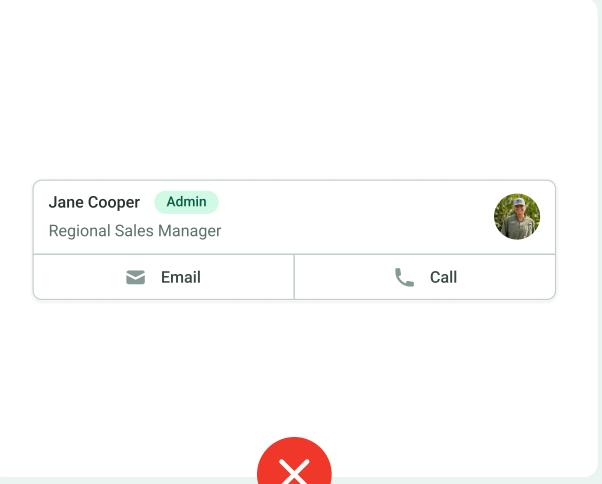
## Do's:

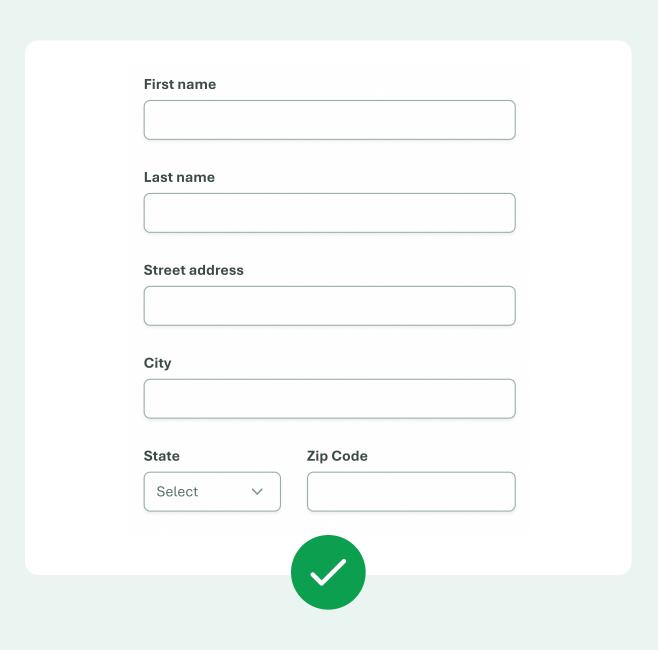
- **Define a consistent spacing system:** Establish a clear spacing structure to maintain uniformity across your design. (e.g. 2px, 4px, 8px, 16px, ...)
- Use more white space initially: It's easier to remove excess padding than to add it back in later.

## Don'ts:

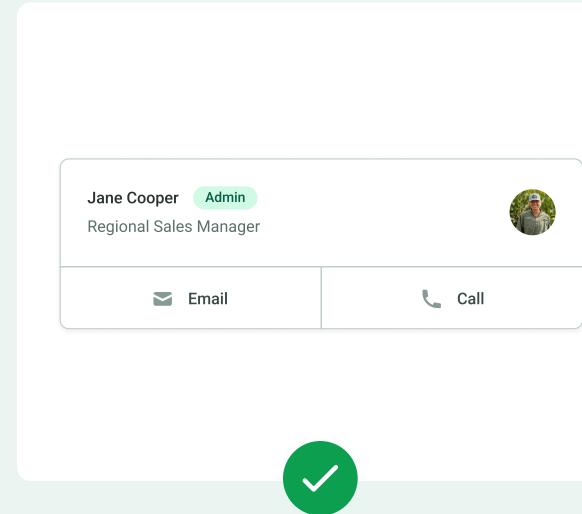
- Don't confuse users with insufficient spacing: Avoid minimal spacing between groups of elements, as it can make it unclear which items belong together.
- Don't make form labels ambiguous: Ensure adequate padding between input fields to clearly associate labels with their respective inputs.







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## **Border Radius**

Rounded corners help convey a sense of approachability and friendliness in our designs, so it's important to apply them consistently and thoughtfully.

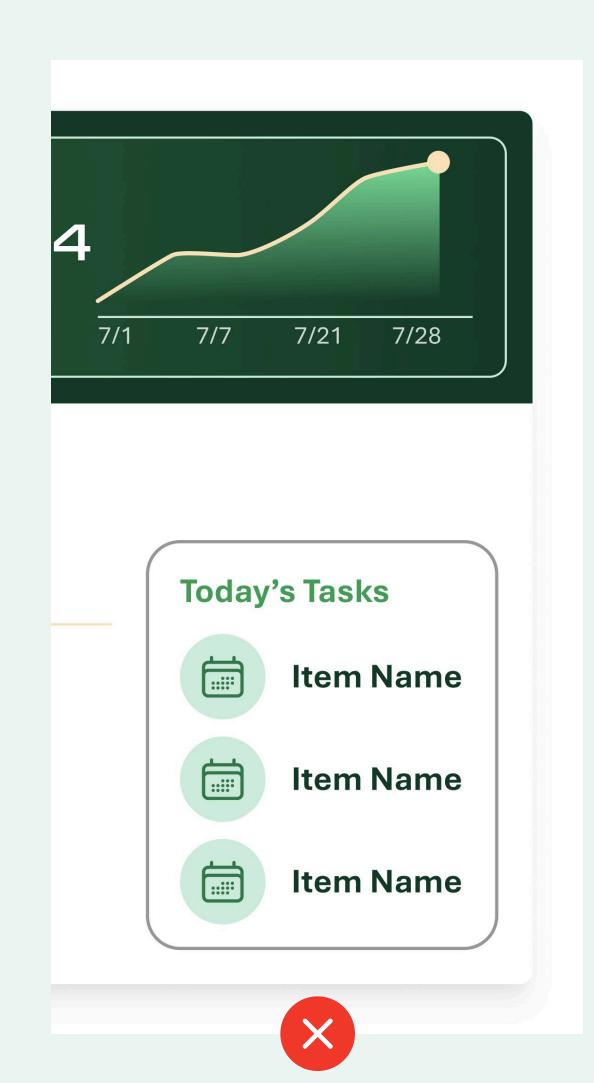
## Do's:

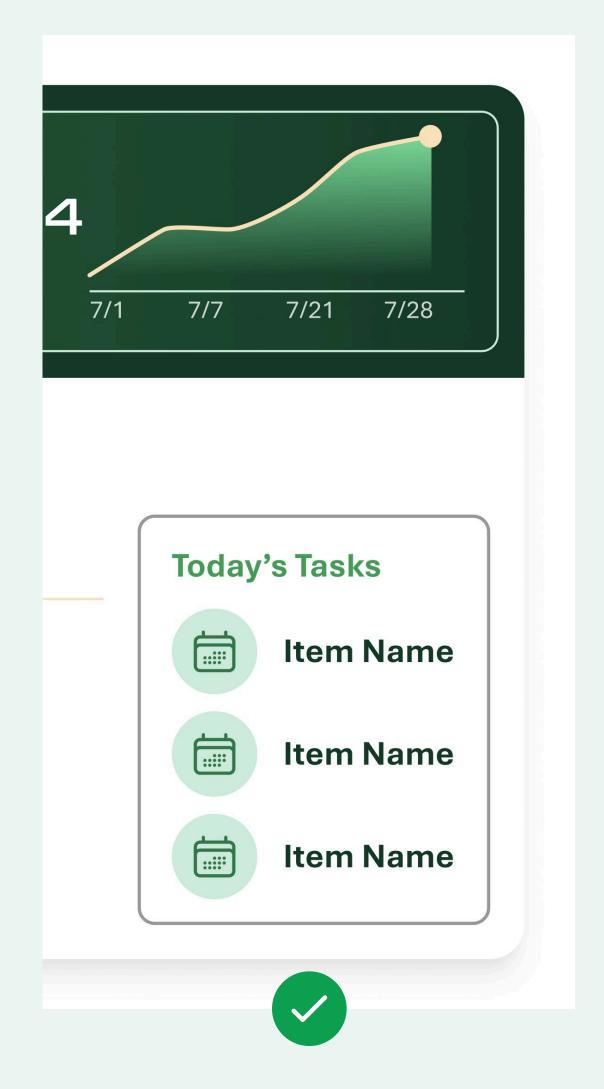
Scale the border radius of nested containers:

Ensure that inner containers have a smaller border radius than the outer containers to maintain visual hierarchy and harmony.

## Don'ts:

- Don't use a larger or equal-sized radius for nested containers: Avoid having an inner element with a border radius larger than or equal to its outer container, as this can disrupt the design flow.
- Don't mix harsh and soft corners: Be consistent in your use of rounded corners to avoid visual confusion or tension within the design.





## Elevation

Elevation is a great way to create separation between components and guide the user with visual hierarchy.

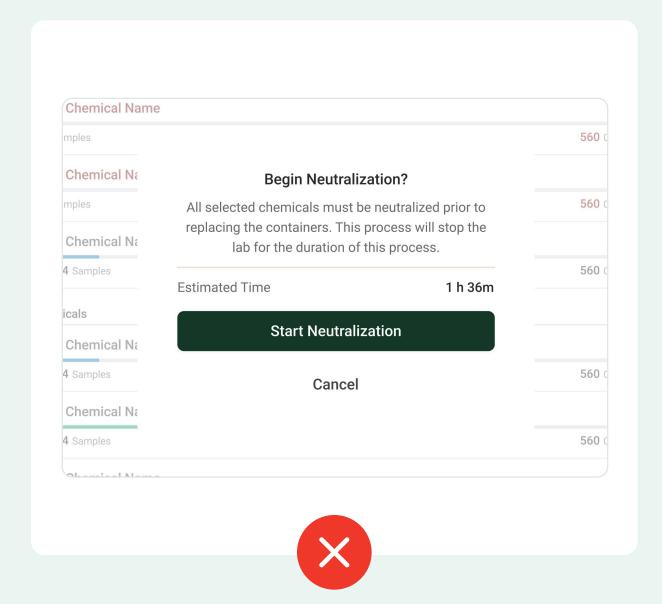
## Do's:

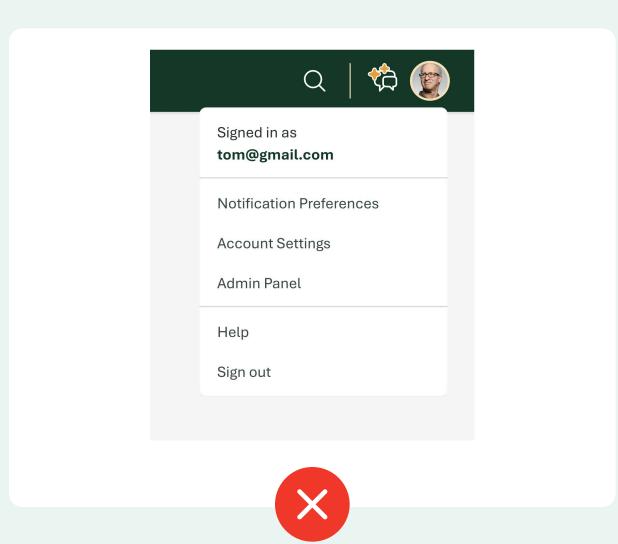
- Use soft, subtle shadows: Apply gentle shadows to create a sense of depth without overwhelming our flat design aesthetic.
- Raise color luminance on foreground elements:

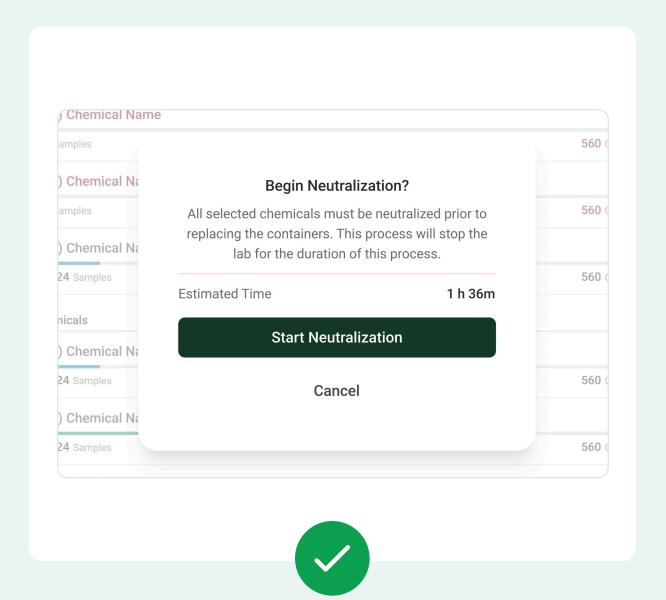
  Consider increasing the brightness of foreground elements to make them appear closer to the user.

## Don'ts:

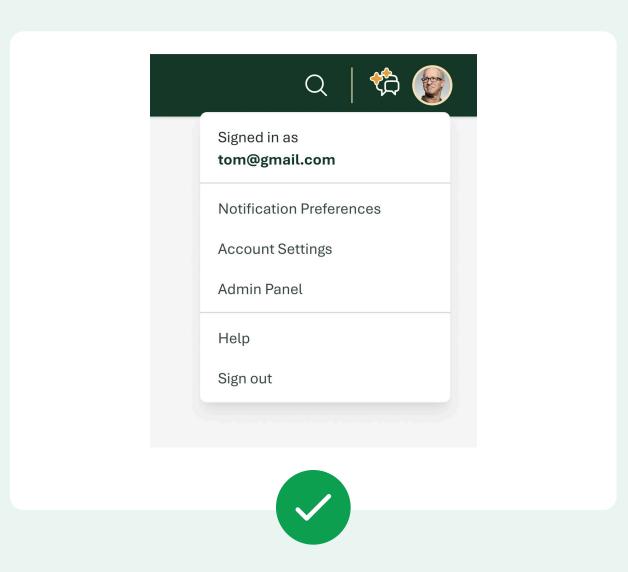
- Avoid harsh shadows: Steer clear of strong, dark shadows, particularly behind text, that can disrupt the flat design approach.
- Don't overuse elevation: Excessive use of elevation can clutter the interface and reduce its effectiveness. Start with a flat design and increase depth gradually with shadows & color changes.







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## **Buttons & Links**

When designing buttons, it's important to consider their purpose, platform, and hierarchy to ensure usability and clarity.

## Do's:

- Size icon buttons appropriately for the device:

  Ensure mobile buttons have a touch target of 40px or larger for optimal usability.
- Place icons contextually: In most circumstances, place icons to the left of button labels. However, directional icons like arrows should be positioned in their implied direction (e.g. right arrow to right).

### Don'ts:

Don't use buttons for every action: Not every interaction needs a button—use alternatives like dropdowns or links for lower-priority actions.

## Icon buttons

For use with custom icons and **Heroicons**.

#### **Hyperlinks**

For all inline anchor links.

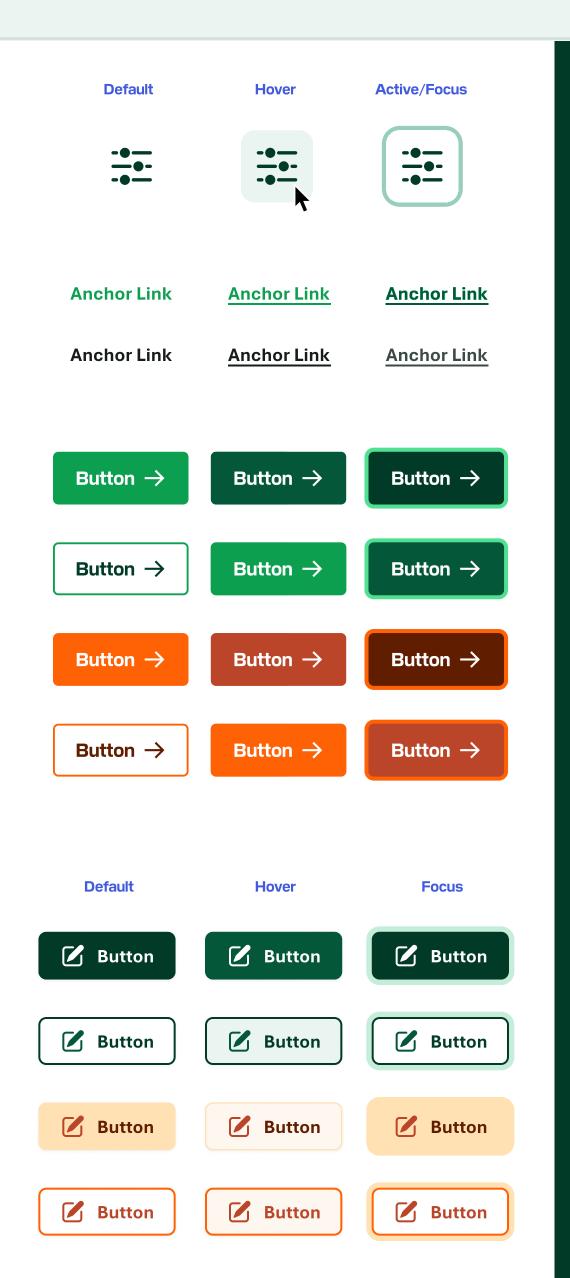
#### **Branded CTAs**

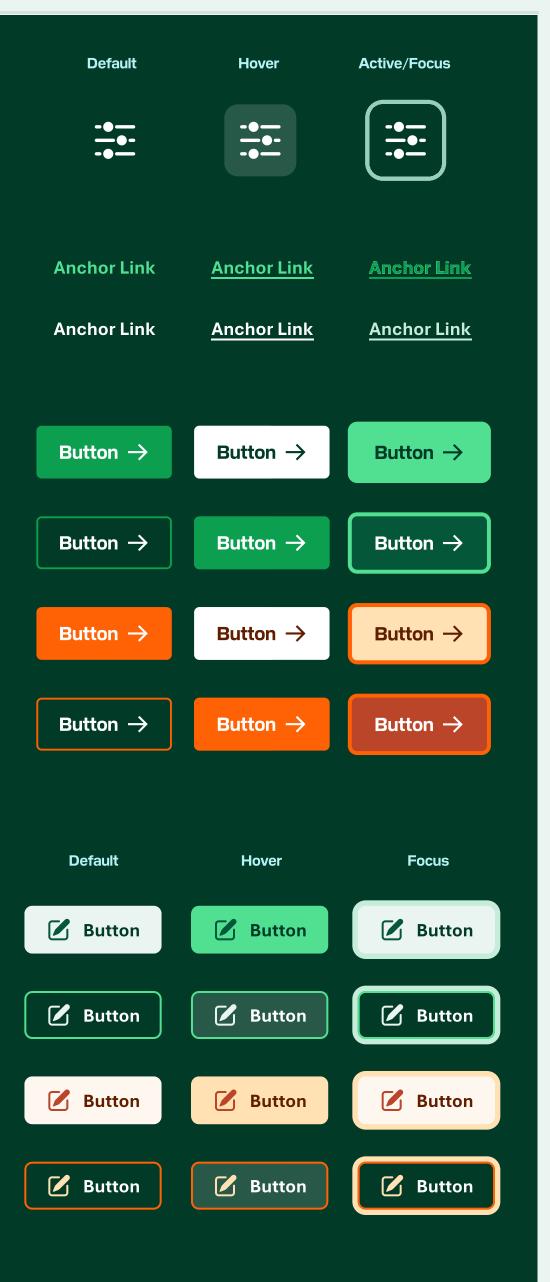
For use on landing pages & marketing websites.

See live examples of these buttons here.

### **Application buttons**

For use on web, mobile, & embedded applications.





## Form Controls

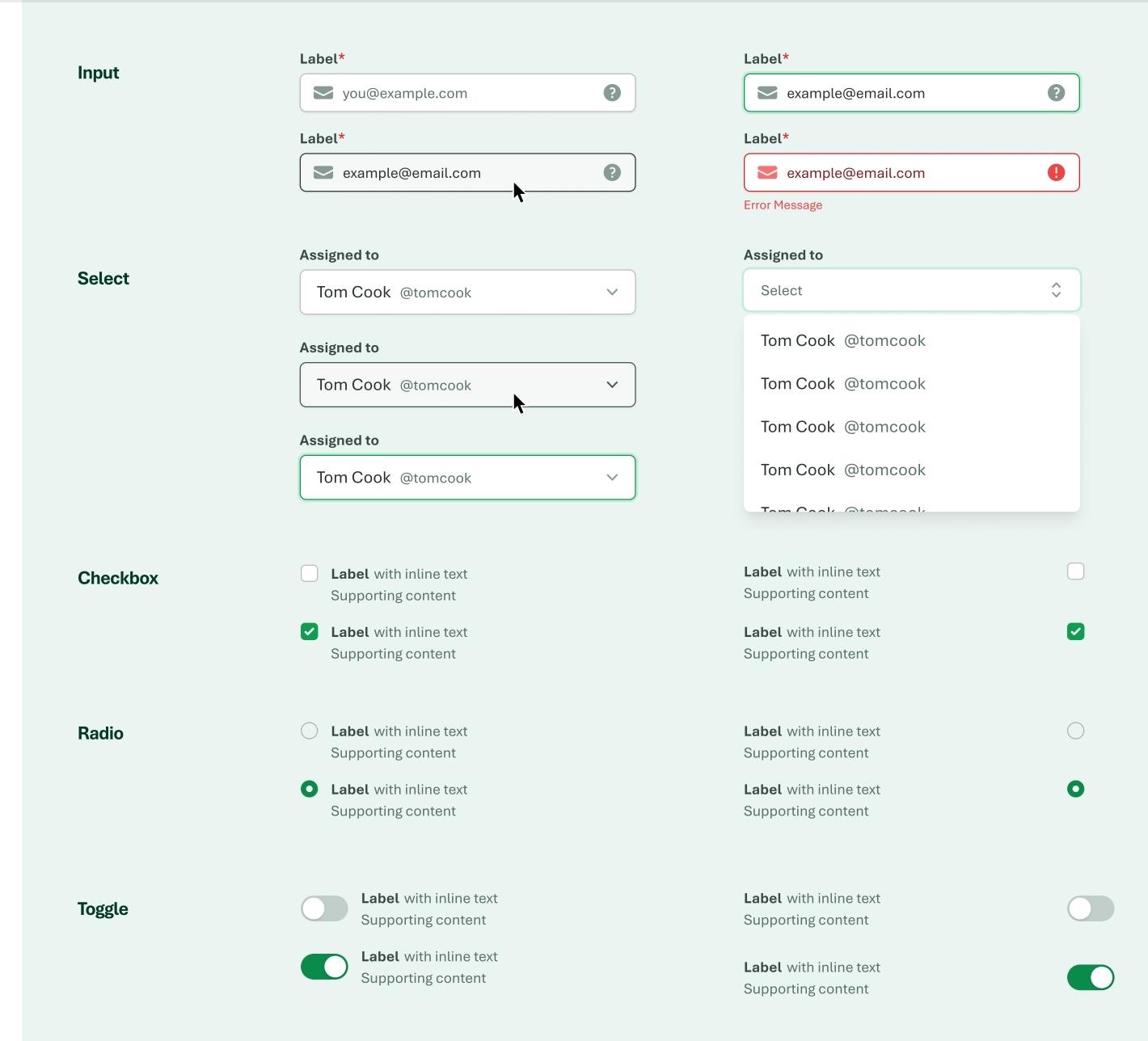
When designing form controls like inputs, selects, checkboxes, radios, and toggles, it's important to prioritize clarity, accessibility, and ease of use to enhance user experience and ensure accurate data collection.

## Do's:

- Use clear labels: Place labels above each field to ensure users understand what information is required.
- Choose appropriate input types: Use the correct input field types (e.g., email, phone, date) to help users enter information correctly.

## Don'ts:

**Don't rely solely on placeholders:** Placeholders disappear when users begin typing, so never replace labels with them.

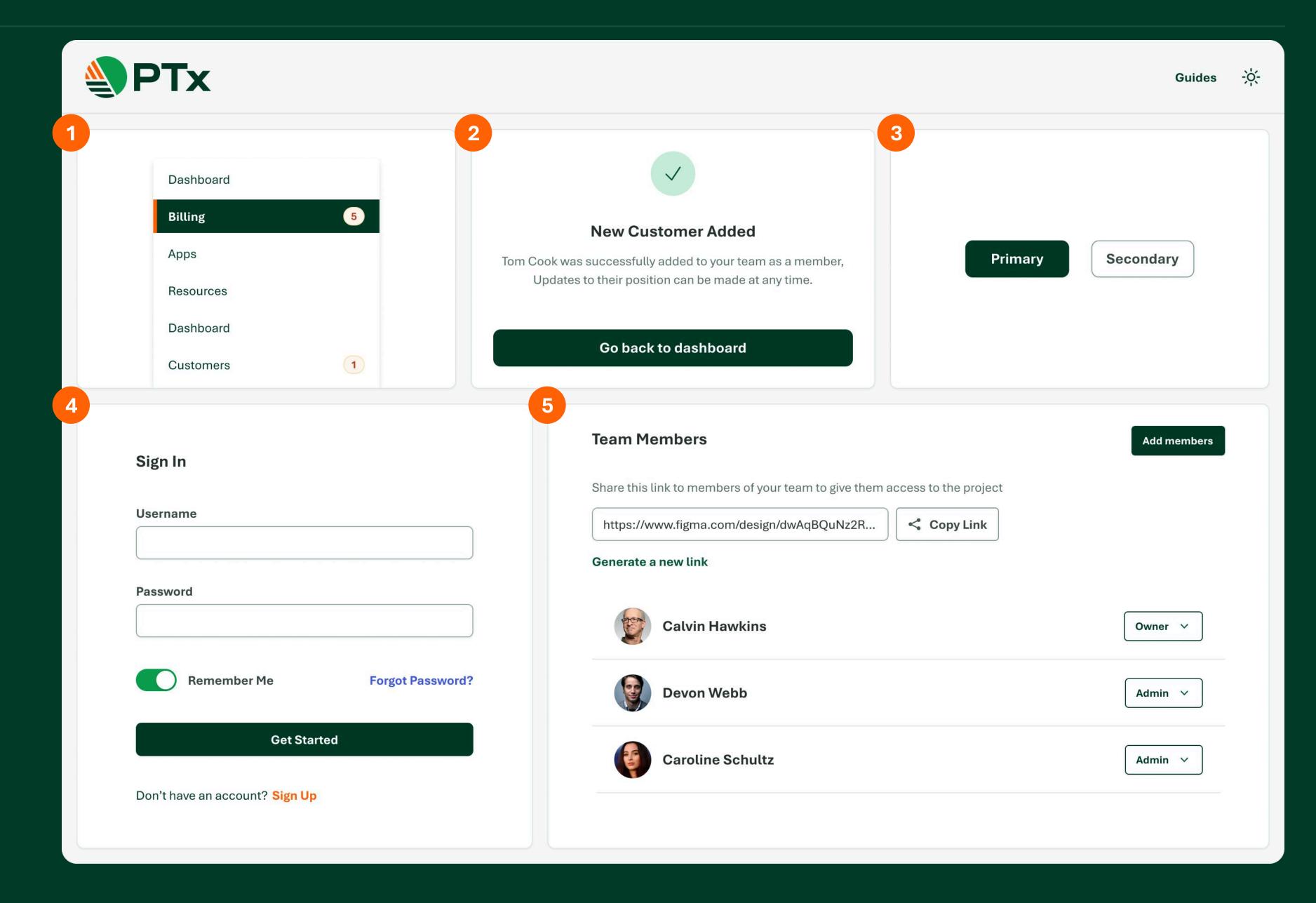


## 30

# Ul Examples

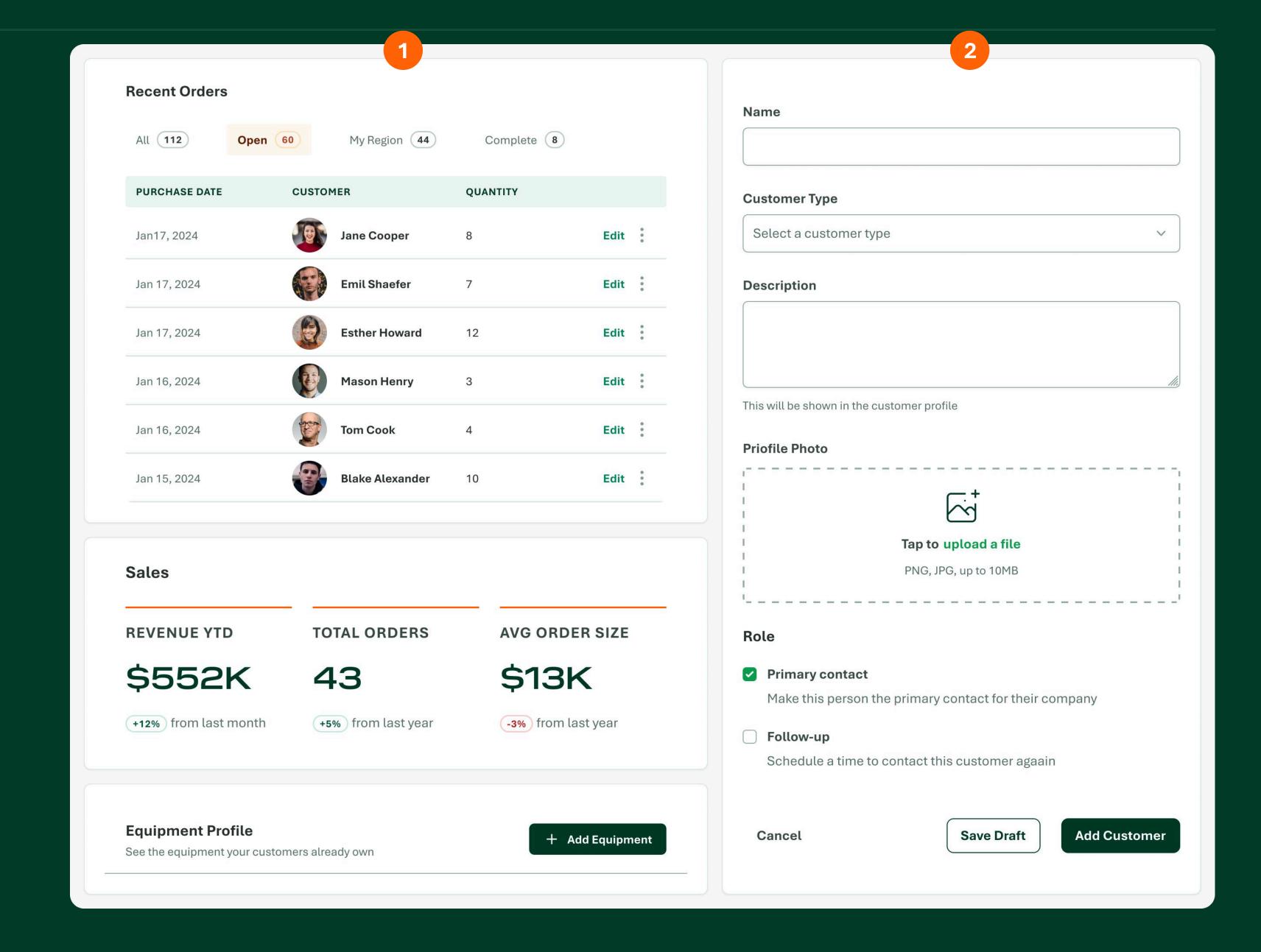
## **Ul Examples**

- 1. Vertical Navigation
- 2. Dialog pop-up
- 3. Primary & secondary buttons.
- 4. Login form
- 5. Share link modal



## **UI Examples**

- 1. Dashboard widgets
- 2. Sidebar form



## Resources

## Pilat licenses

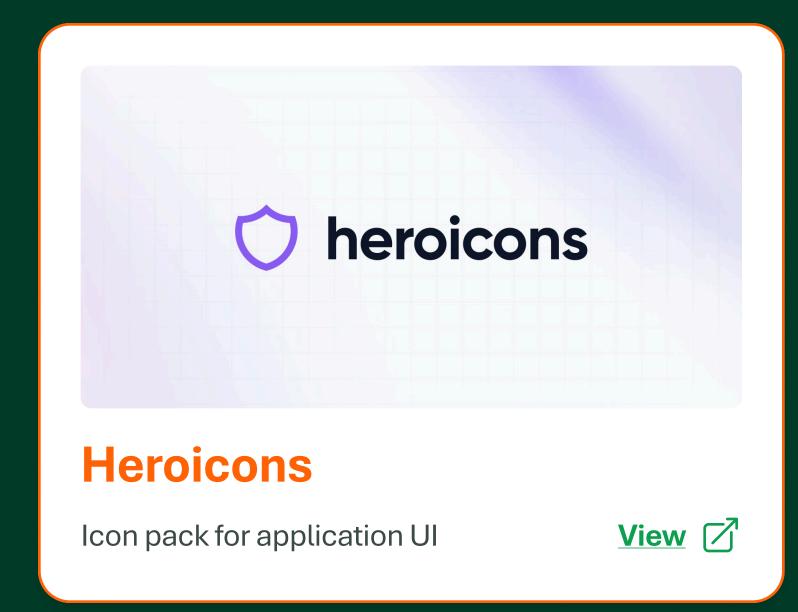
To request access to our brand font, Pilat, internal employees can reach out to <a href="Maggie.Chrisman@precisionplanting.com">Maggie.Chrisman@precisionplanting.com</a>. Non-employees can also reach out to Maggie, but if purchasing is necessary, be sure to purchase only Pilat and Pilat Wide from General Type.

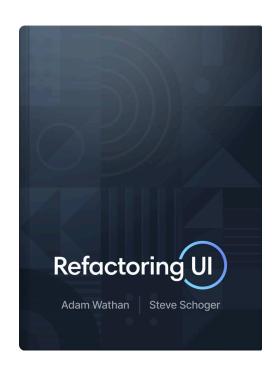
## Need help? Have questions?

For questions about the PTx identity system, please contact

Maggie.Chrisman@precisionplanting.com. For creative reviews and UI/UX design guidance contact Jorge Colón at <a href="mailto:Jcolon@precisionplanting.com">Jcolon@precisionplanting.com</a>.

## Other Resources





## **Refactoring UI**

Tips & tricks for great UI design



