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Design Systems

Bridging Design and Development

Swift Cairo, 28 Aug 2024

What is a design system?

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An ever-evolving set of standards that
guides teams through creating digital products

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Design System

Design tokens, documentation, core principles and best practices

Components and Patterns

Reusable elements such as buttons, toggles, and more complex constructs

Foundations

Includes color, typography, spacing, and brand guidelines

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What are design tokens?

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Design decisions that make up a design system's visual style

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Design Tokens

Used for color, typography, spacing, animation, and more

Reference

Directly tied to values

`klvr-ref-color-purple-500`

`#5917c4`

System

Design decisions based on product or system

`klvr-color-primary`

`klvr-ref-color-purple-500`

Component

References system tokens based on use

`button-primary-color-fill`

`klvr-color-primary`

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Foundations

Typography

Color

Measurement

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Typography

Define your Hierarchy

Heading 1

Heading 2

Heading 3

Title 1

Title 2

Title 3

Label 1

Label 2

Label

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Adjust Type Settings

Typography

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Size

Typography

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Weight

Typography

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Letter Spacing

Typography

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Typography

Line Height

Here’s a multiline paragraph
to better illustrate line height

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Declaring Font Type

```
public func labelLarge(text: String, color: UIColor) -> NSAttributedString {
    switch Language.currentLanguage {
    case .english:
        switch UITraitCollection.current.userInterfaceStyle {
        case .dark:
            return createAttributedString(with: FontStyle(
                fontSize: 16.0,
                fontFamily: "Hauora",
                fontWeight: "SemiBold",
                lineHeight: 24.0,
                letterSpacing: 0.7,
                textCase: "ORIGINAL",
                textDecoration: "NONE"), text: text, color: color)
        case .light:
            return createAttributedString(with: FontStyle(
                fontSize: 16.0,
                fontFamily: "Hauora",
                fontWeight: "Bold",
                lineHeight: 24.0,
                letterSpacing: -0.5,
```

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Declaring Font Type

```
case .arabic:
    switch UITraitCollection.current.userInterfaceStyle {
    case .dark:
        return createAttributedString(with: FontStyle(
            fontSize: 17.0,
            fontFamily: "Vazirmatn",
            fontWeight: "Medium",
            lineHeight: 24.0,
            letterSpacing: 0.0,
            textCase: "ORIGINAL",
            textDecoration: "NONE"), text: text, color: color)
    case .light:
        return createAttributedString(with: FontStyle(
            fontSize: 17.0,
            fontFamily: "Vazirmatn",
            fontWeight: "SemiBold",
            lineHeight: 24.0,
            letterSpacing: 0.0,
            textCase: "ORIGINAL",
```

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Using Type Token

```
Text(labelLarge(text: "Welcome to Swift Cairo & Klivvr Meetup",
                color: ColorTokens.onbackgroundvariant))
```

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Color

light-primary-100
#DECFFC

light-primary-300
#8C5BF1

light-primary-600
#4511AC

dark-primary-100
#B397ED

dark-primary-300
#9A71EF

dark-primary-600
#412A6F

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Declaring Color Tokens

```
public enum ColorTokens {
    public static var primary: UIColor {
        return color(dark: Dark.primary300, light: Light.primary400)
    }
    public static var background: UIColor {
        return color(dark: Dark.neutral900, light: Light.neutral50)
    }
    // And more color tokens...
}
```

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Using Color Tokens

```
// Setting a color using our dynamic color function
view.backgroundColor = ColorTokens.surfacecontainer.color()
```

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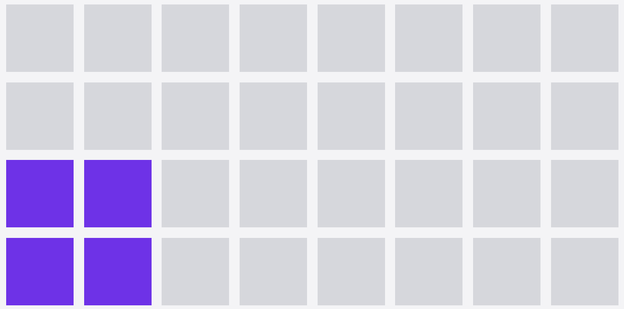
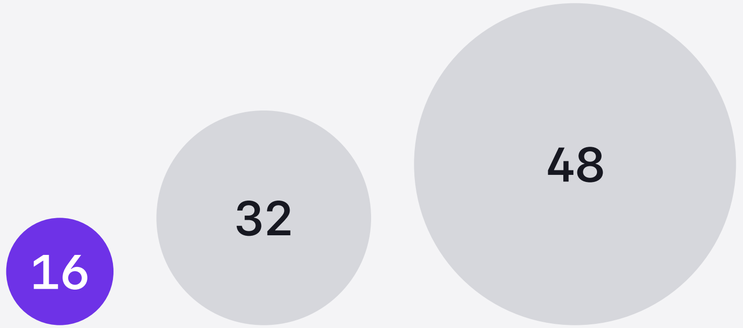
Measurement



We use a 4px grid system

Can vary based on project, but most flexible



Use multiples of your grid system for size and space

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Let’s put this all together

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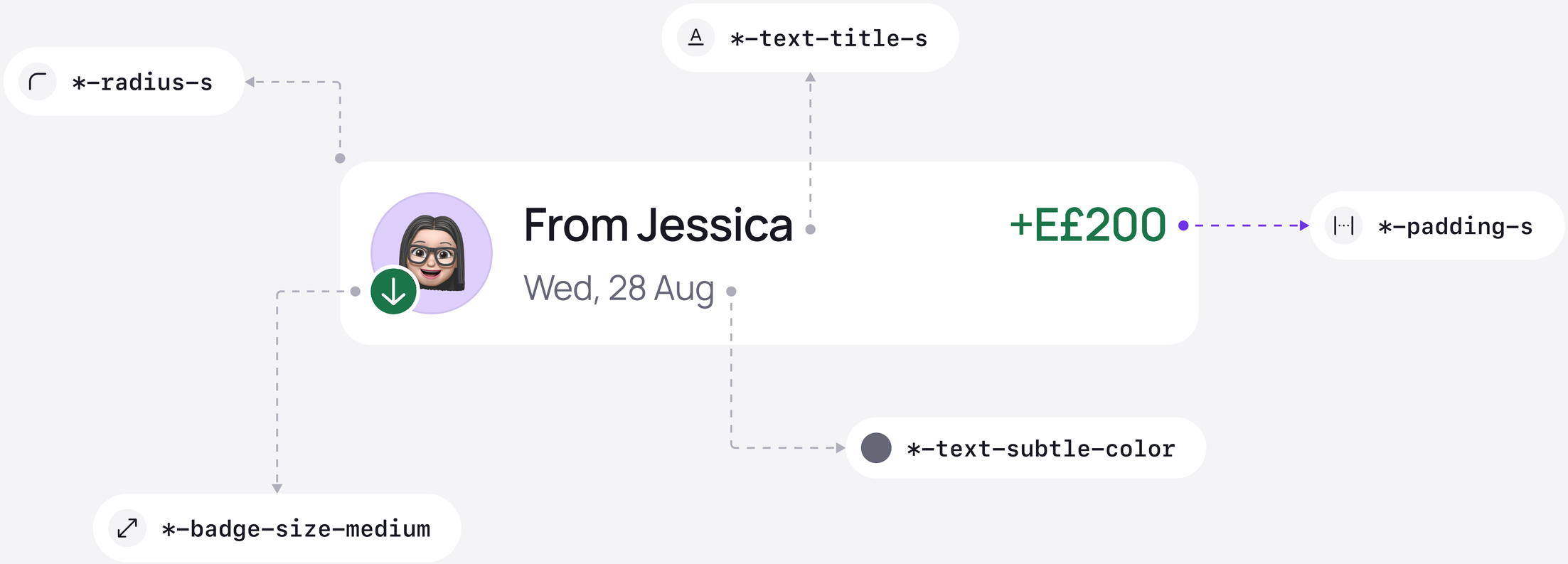
*-radius-s
*-text-title-s
From Jessica
Wed, 28 Aug
+E£200
*-padding-s
*-text-subtle-color
*-badge-size-medium

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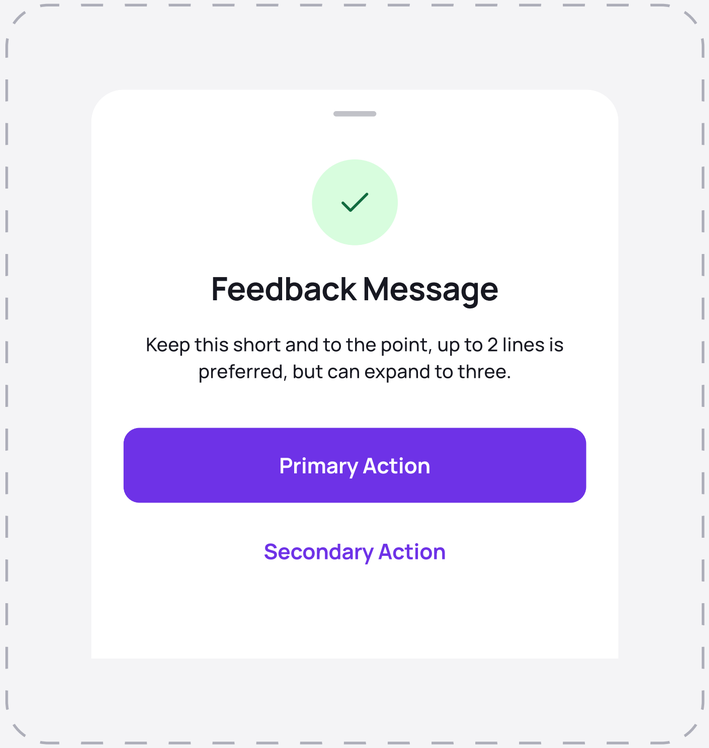
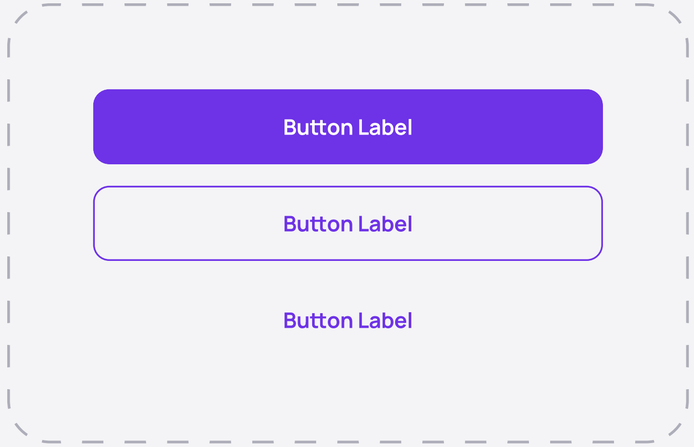
*-text-title-s
*-radius-s
From Jessica
Wed, 28 Aug
+E£200
*-padding-s
*-text-subtle-color
*-badge-size-medium

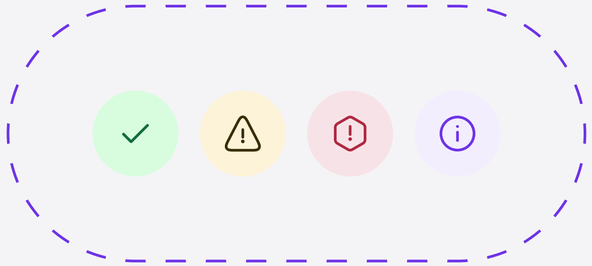
Components



`feedback-sheet`



`button-*`



`_feedback-icons`

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FEATURE DEMO

Figma Code Connect

Install the Figma SDK and Figma CLI

Connect your component using its URL

Parse the generated variants to the component model

Publish and Voìla

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How we process localization

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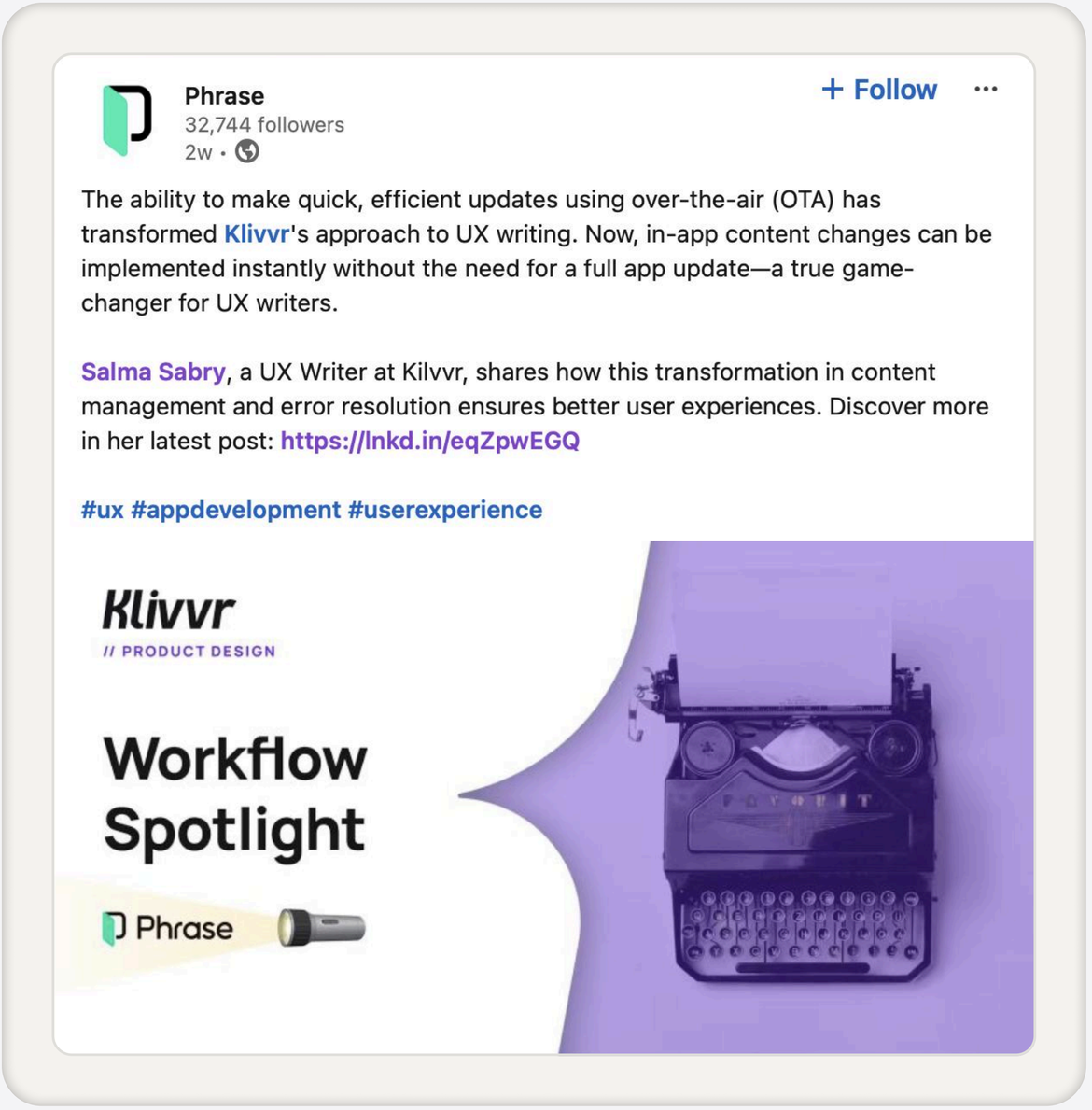
Phrase

Localization Solutions
for Developers



Integrating with Phrase

GitHub

Product Design can push changes through a PR

Development teams pull changes through the CLI

OTA

Initial Setup

Fetch Translations

Automatic Updates

Questions

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