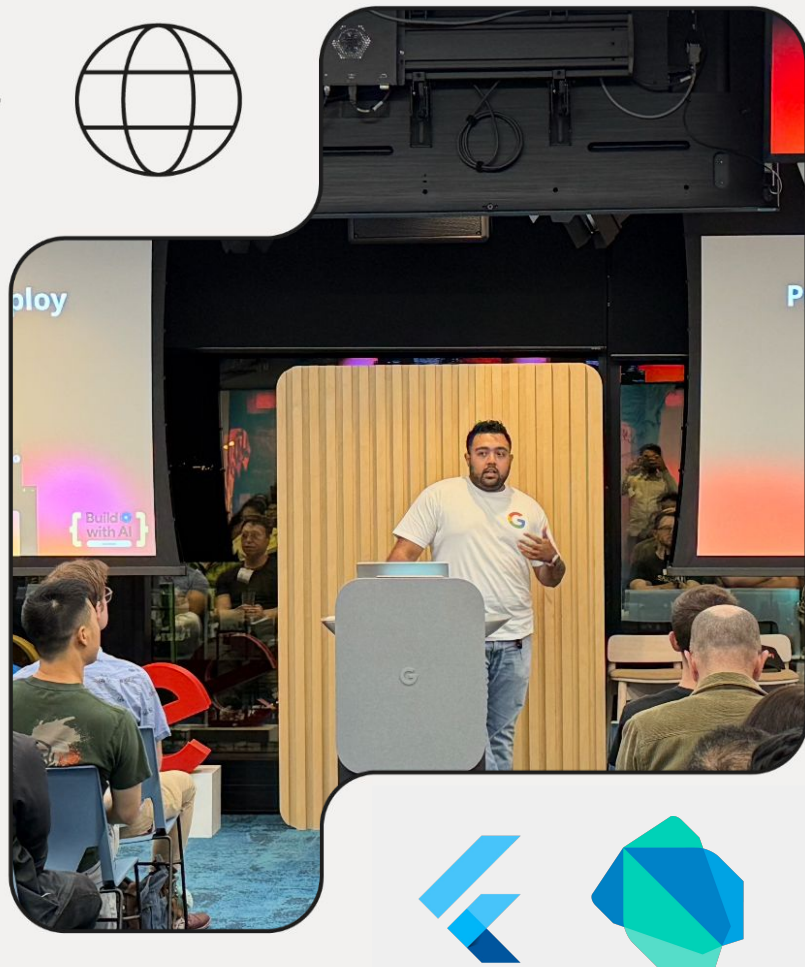


Widgets to Catalog

Build your Flutter design systems

Dilum De Silva

Google Developer Expert
Sr Engineer @ AMP



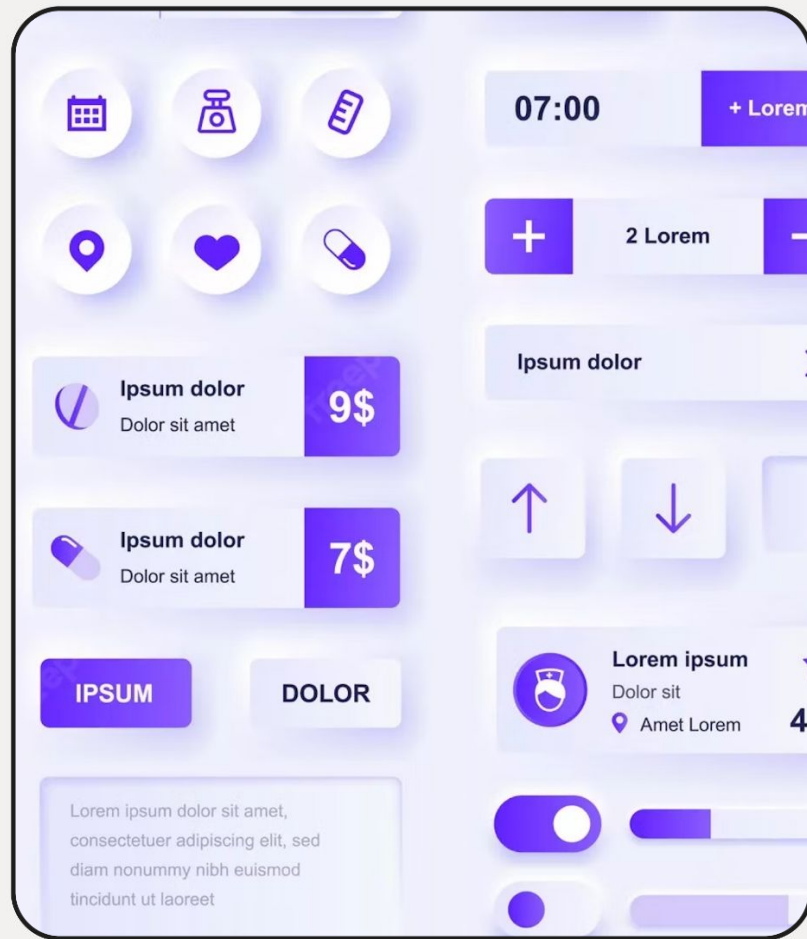
How do you document and showcase all your custom widgets?



Figma



Confluence



Challenges in widget development

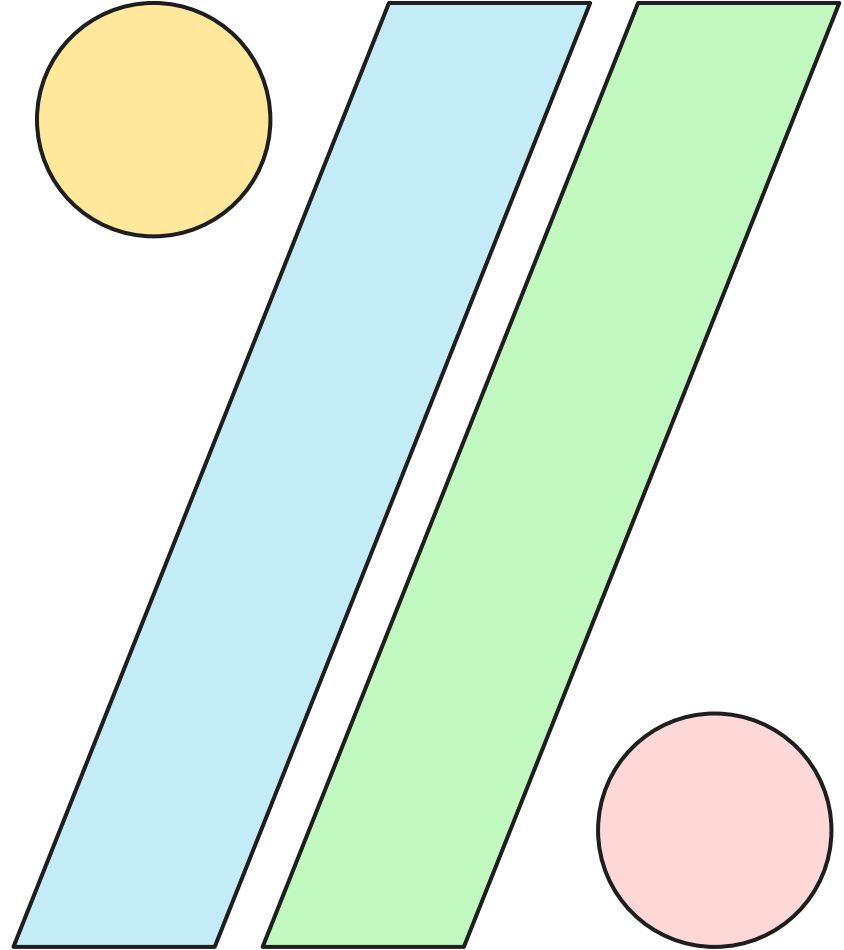
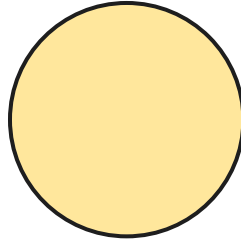
- Hard to visualize widgets in isolation
- Difficult to test different states/configurations
- No central catalog for design system components
- Designer-developer collaboration gaps



Widgetbook



pub.dev/packages/widgetbook



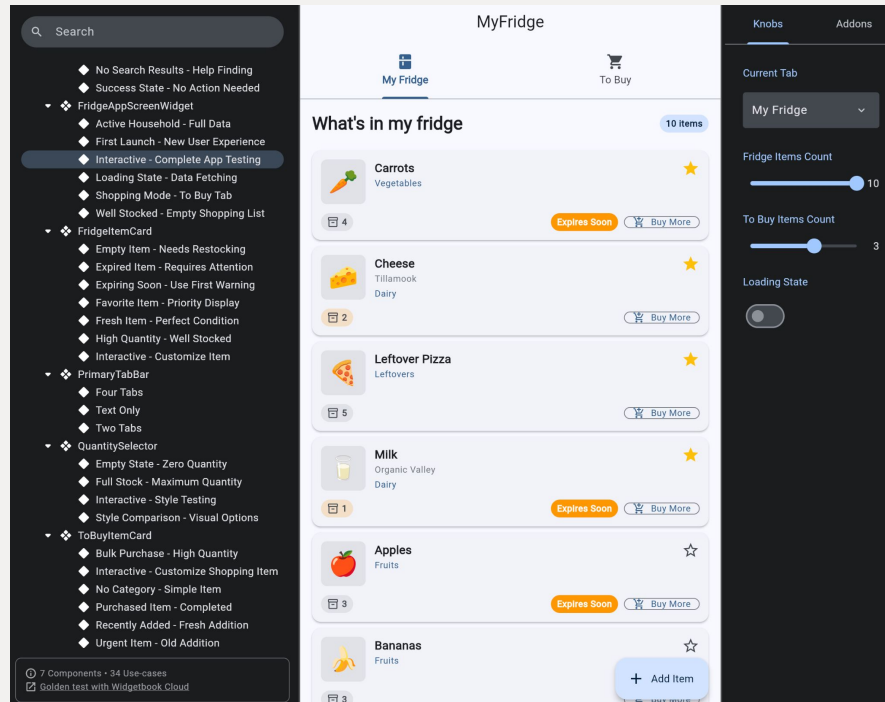
Flutter's answer to Storybook

Widgetbook is a Flutter package that provides a **catalog/showcase** environment for your Flutter widgets, allowing you to **develop**, **test**, and **document** UI components in **isolation** from your main application.

Storybook is a hugely popular tool in the web development world (React, Vue, Angular)

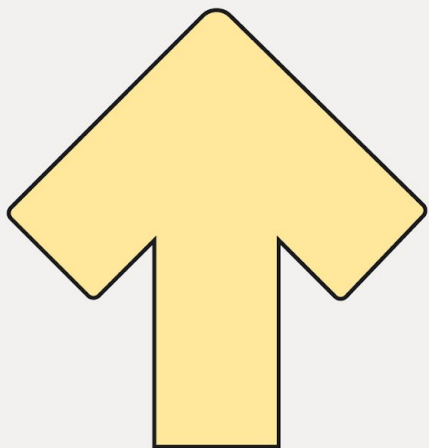


Core Concepts of Widgetbook?



01

Use cases (categories)



Different **variations** or **states** of a single widget. Each use case shows one specific example - like a button in its default, disabled, or loading state.

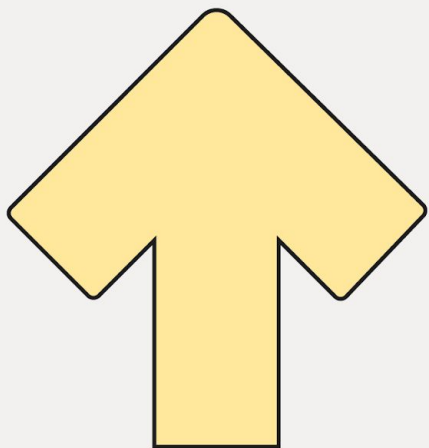
You might also hear them called '**stories**' if you're familiar with Storybook



02

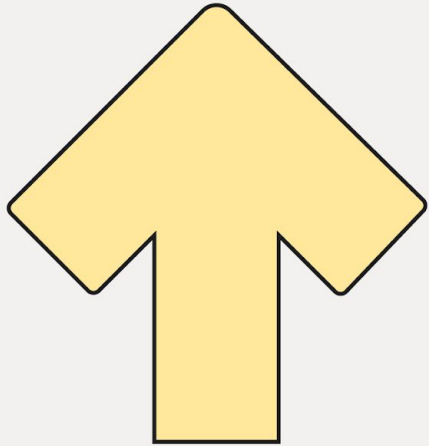
Knobs (interactive controls)

Interactive controls that let you **modify** widget **properties** in **real-time** **without changing code**. Toggle booleans, adjust numbers, change text, or select options - all while the app is running.



03

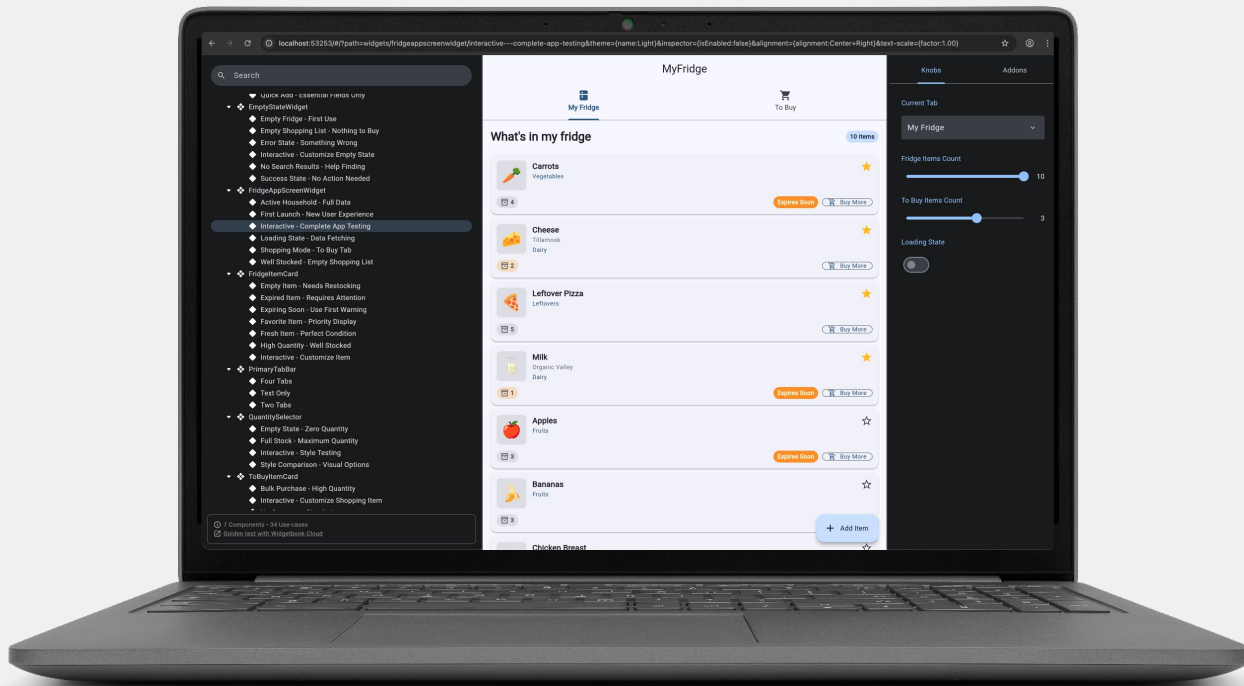
Add-ons (themes, devices)



Global features that apply to all your widgets at once. Switch between light/dark **themes**, preview on different **device frames** (iPhone, Android tablet), test different **languages**, or adjust **text scaling**.



Widgetbook Demo



Key benefits:

- Isolated widget development
- Documentation as code
- Multiple device previews
- Different themes/localizations testing
- Reusable widgets become a practice



Best Practices



Mirror your app's component structure

```
lib/
```

```
├── widgets/  
│   ├── buttons/  
│   ├── cards/  
│   └── inputs/
```


```
widgetbook/
```

```
├── buttons/  
├── cards/  
└── inputs/
```

← Same structure




Keep Widgetbook separate

 Good - separate directory

project/

```
|— lib/           # Production code
|— widgetbook/    # Widgetbook catalog
```

 Bad - mixed together

lib/

```
|— widgets/
|   |— button.dart
|   |— button.widgetbook.dart # Don't do this
```



Ask: Would a designer or developer need to see this variation?

Cover all meaningful states, **Don't** overdo it.



Use knobs wisely - don't overcomplicate

// ❌ Too many knobs = overwhelming

```
builder: (context) => MyButton(  
  text: context.knobs.string(label: 'Text', initialValue: 'Click'),  
  fontSize: context.knobs.double.slider(label: 'Font Size', ...),  
  paddingTop: context.knobs.double.slider(label: 'Padding Top', ...),  
  paddingBottom: context.knobs.double.slider(label: 'Padding Bottom', ...),  
  borderRadius: context.knobs.double.slider(label: 'Border Radius', ...),  
  // ... 10 more knobs  
)
```

// ✅ Focused on key properties

```
builder: (context) => MyButton(  
  text: context.knobs.string(label: 'Button Text', initialValue: 'Click Me'),  
  enabled: context.knobs.boolean(label: 'Enabled', initialValue: true),  
  size: context.knobs.list(label: 'Size', options: ['small', 'medium', 'large']),  
)
```



Team **Collaboration**, Make it **accessible**.



Thank You!

Slides and code can be found at
dilumdesilva.dev

