

WordPress Components Library

How the [@wordpress/components](#) package can help you build better wp-admin interfaces.

About me



- Waldviertel / Lower Austria
- Web- and WordPress developer / freelancer
- Build sites and custom plugins
- Open source
- Like to build things the WP way
- Bring in ideas from other CMS/frameworks

Who has...

- ... built custom blocks?
- ... worked with React in the editor?
- ... worked with React in the wp-admin?

What to expect from this talk

- How to build **modern admin interfaces**
- **Tools** WordPress provides you for that
- Which **component libraries** exist
- **Why** you should use them
- **No live code**
- Links to code, **examples** and **sources**

How we built admin pages in the past

wp wc-vienna-2024 0 + New Howdy, admin

Buttons

Use core function to create buttons: `submit_button($text = null, $type = 'primary', $name = 'submit', $wrap = true, $other_attributes = null)`

Example Primary Button

Example

Example

Example Secondary Button

Example Link Button

► ... Show markup and usage

Card

Main Content Title

WordPress started in 2003 with a single bit of code to enhance the typography of everyday writing and with fewer users than you can count on your fingers and toes. Since then it has grown to be the largest self-hosted blogging tool in the world, used on millions of sites and seen by tens of millions of people every day.

► ... Show markup and usage

scroll to top

scroll to top

scroll to top

Source: <https://github.com/bueltge/WordPress-Admin-Style>

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Form Elements: Fieldset and Input Field

- Checkbox description with legend class .screen-reader-text
- Radio description with legend class .screen-reader-text
- Radio description #2 with legend class .screen-reader-text
- ▶ ... Show markup and usage

scroll to top

Form Elements: Input Fields

.regular-text

.small

.large-text

.all-options

This is what text looks like here... This is a description for a form element.

...and text formatted as code.

▶ ... Show markup and usage

scroll to top

Form Elements: Select

Example option ▾

▶ ... Show markup and usage

scroll to top

Form Elements: Textarea

no class

Source: <https://github.com/bueltge/WordPress-Admin-Style>

How we built admin pages in the past

- Custom HTML + PHP + CSS + JS
- Reinventing concepts & components
- Repetitive code
- Build custom framework
- Freedom in building interfaces

How we built admin pages in the past

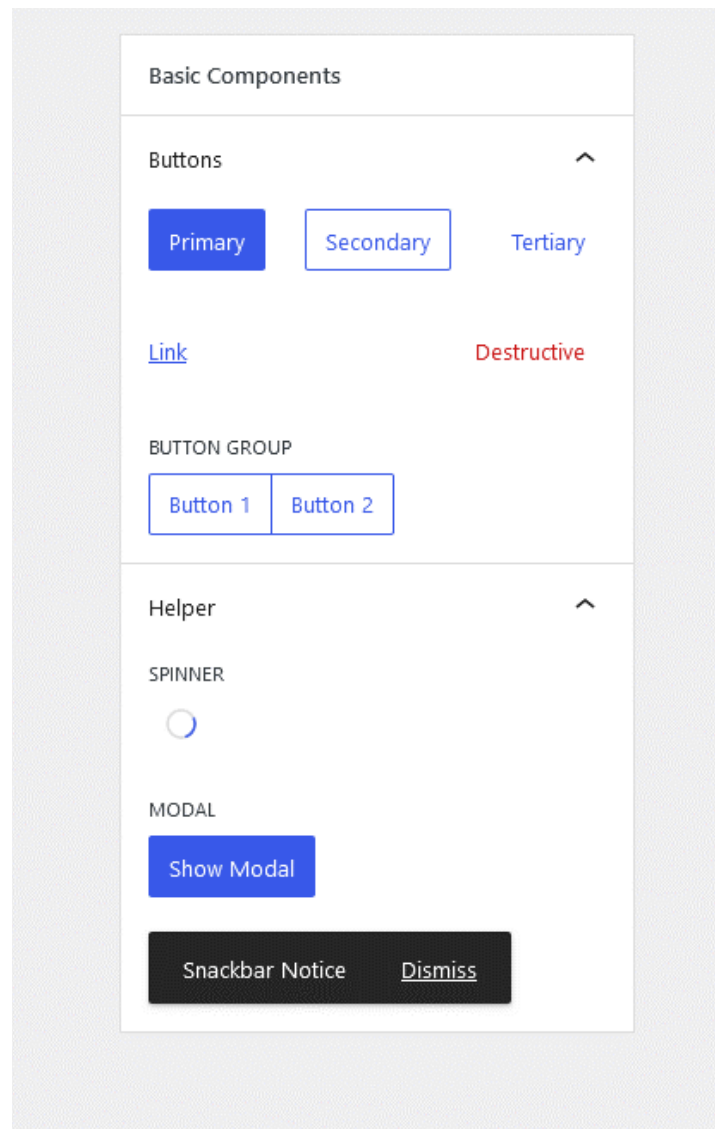
- Different UIs + UX
- Looked like separate “apps”
- Clashing styles
- A11y

The WordPress component library

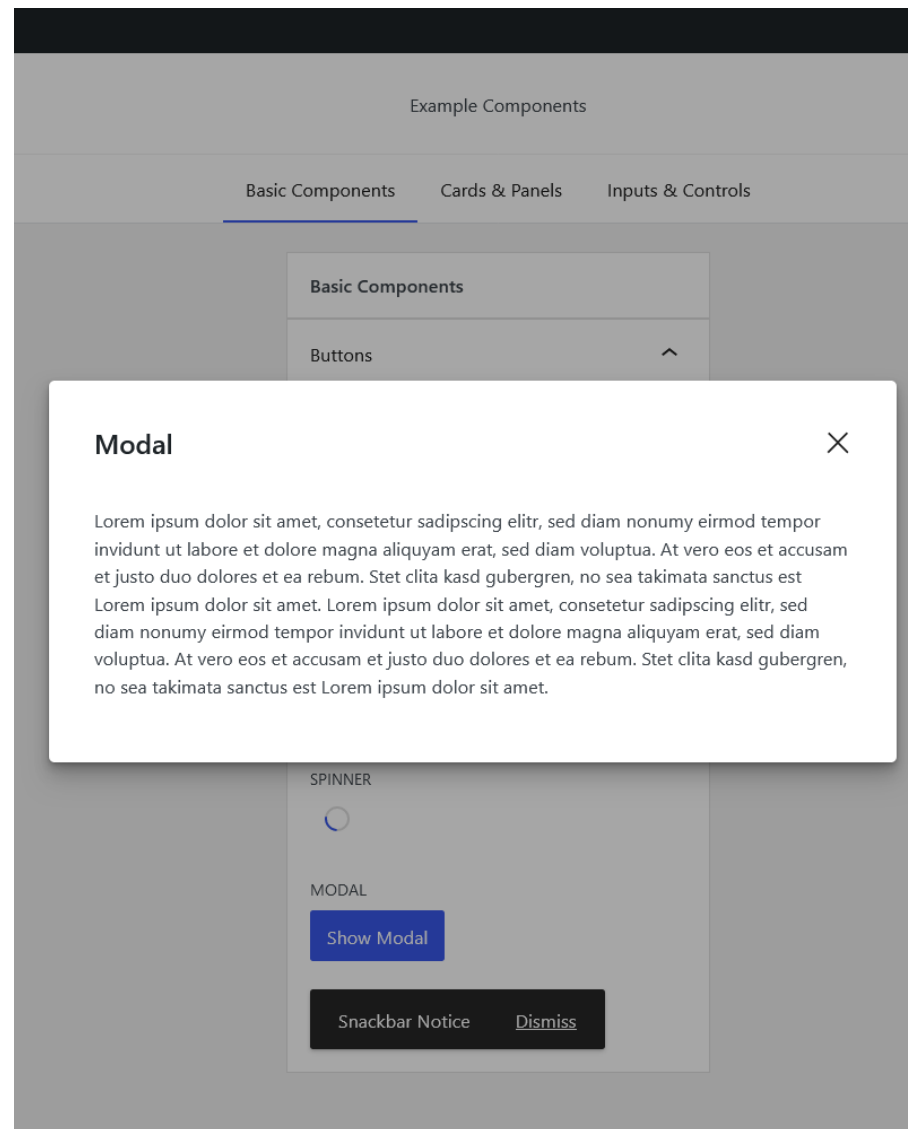
The WordPress component library

- Gutenberg: React + modern JS in Core
- Component libraries are common
- Core provides components
- Core uses same components
- Library is actively maintained
- New components, bug fixes, optimizations, all
- You always get updates

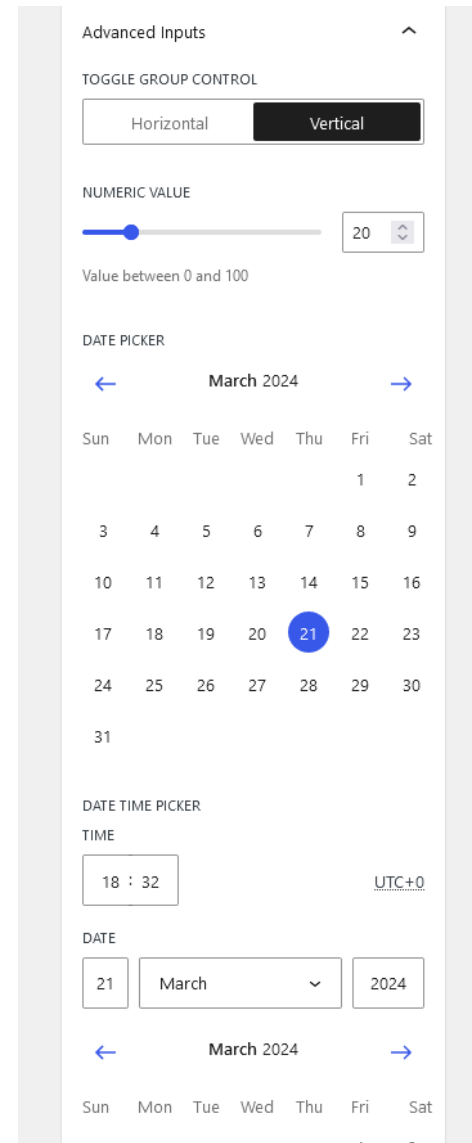
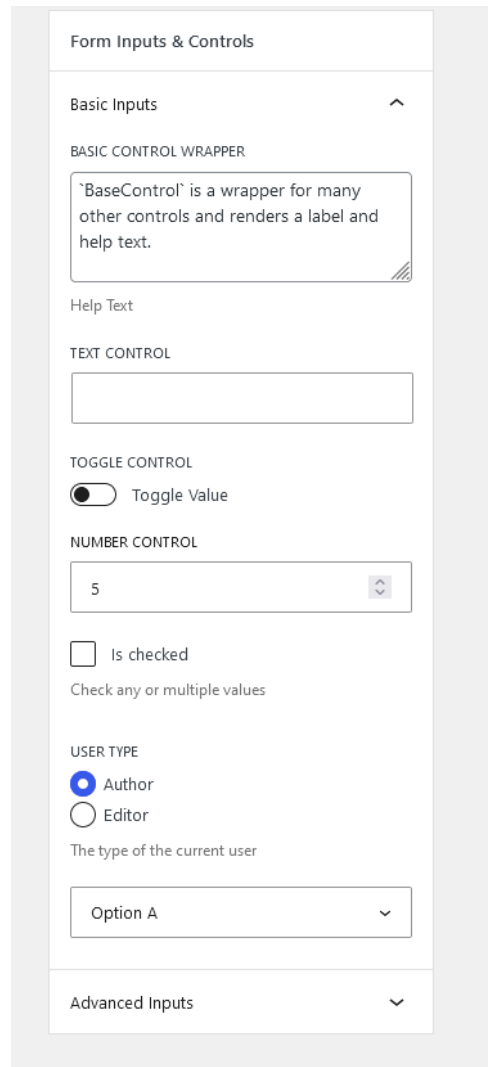
Example Components



Source: <https://github.com/gaambo/wordcamp-vienna-2024-examples>



Source: <https://github.com/gaambo/wordcamp-vienna-2024-examples>



Source: <https://github.com/gaambo/wordcamp-vienna-2024-examples>

Example Components

Basic Components Cards & Panels Inputs & Controls

Panel

Panel Body ^

PanelRow

Always Open ^

PanelRow


Initially closed v

CardHeader

CardBody

CardBody (before CardDivider)

CardBody (after CardDivider)



CardFooter Action Button

Source: <https://github.com/gaambo/wordcamp-vienna-2024-examples>

How to use the package

How to use the package

- npm package (npm install)
- Build-process required
- @wordpress/scripts = easiest build process
- Package is shipped in core + exported to window.wp
- Think about supported versions

Documentation

Documentation

- [Block Editor Handbook](#)
- Reference of all components including properties
- Design guidelines (dos/don'ts)
- Storybook
- Documentation is a WIP
- Blog posts
- Call2Action: Contribute docs

Data handling

The @wordpress/data package

Data handling

- Blocks: Attributes
- Redux store
- Get posts/terms/settings
- Register meta/fields/settings on server
- REST API abstraction
- Build your own stores & REST API endpoints

Why should you use it?

Why should you use it?

- Faster development – reuse code
- Modern editing experience
- Built & maintained by WordPress community
- Tested on many sites
- Performance and a11y are being refined
- Benefit from all updates
- Consistent UI across core and plugins + themes
- Similar UX = easier to use

Example #1: Blocks / Editor

The image shows a WordPress block editor interface. On the left, a text block is visible with a light orange background and placeholder text: "Add title" and "Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet." A small "+" icon is in the bottom right corner of the text block.

The right sidebar contains the "Block" settings panel. At the top, there are "Save draft" and "Publish" buttons. Below that, the "Page" and "Block" tabs are shown, with "Block" selected. The "Visibility" section has a vertical ellipsis icon. The "DATE & TIME" section includes a plus icon and the text "Show the block if at least one schedule applies." The "SCHEDULE" section has a pencil icon, a clock icon, a calendar icon, and a vertical ellipsis icon. It includes the text "Show the block" and two input fields: "FROM" with the value "Now" and "TO" with the value "Apr 11, 2024 12:00 am". Below these is a toggle switch labeled "Hide when schedules apply" which is currently turned off. The "METADATA" section has an information icon and a plus icon, with the text "Hide the block if at least one rule set applies. Rules targeting user metadata will fail if the current user is not logged in." The "RULE SET" section has a pencil icon and a vertical ellipsis icon. It includes the text "Hide the block if" and three dropdown menus: "Post Metadata", "Enter Meta Key (Name)...", and "Has any value".

The rightmost sidebar shows the "RULE SET" configuration. It has a pencil icon and a vertical ellipsis icon. The text "Hide the block if" is followed by three dropdown menus: "Post Metadata", "Enter Meta Key (Name)...", and "Has any value". Below these is a link "Add rule" and a toggle switch labeled "Hide when rules apply" which is currently turned on. The "SCREEN SIZE" section has an information icon and three toggle switches: "Hide on desktop" (off), "Hide on tablet" (off), and "Hide on mobile" (off). The "USER ROLE" section has an information icon and a dropdown menu with the value "Public". Below this, the text "Block is visible to everyone." is displayed.

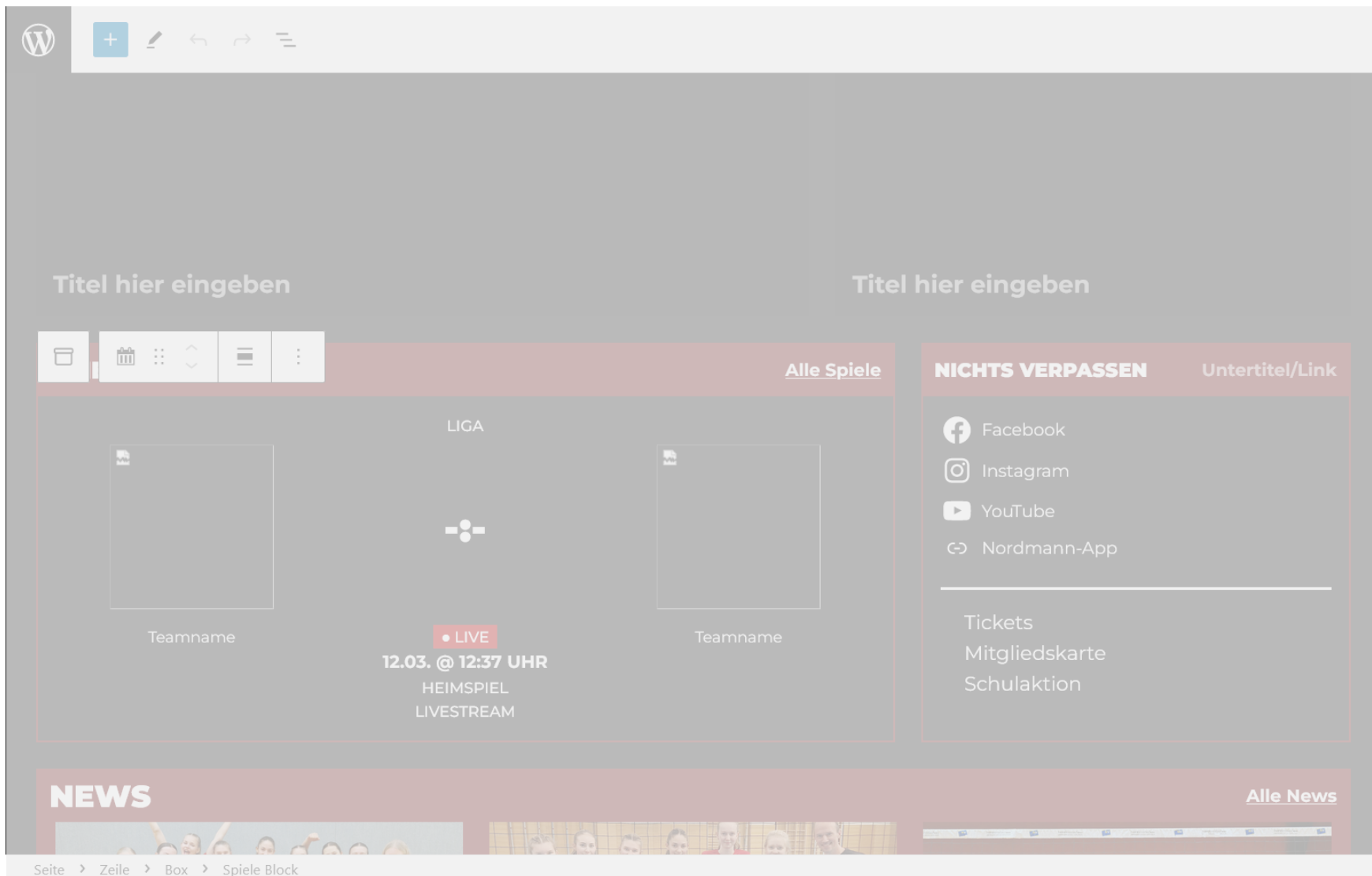
<https://github.com/ndiego/block-visibility>

The screenshot displays the WordPress event editor interface. The main content area features the title "Testveranstaltung 2" and the date "February 29, 2024 12:29 pm". A small "+" icon is visible on the right side of the main content area. The sidebar on the right contains the following sections:

- Event** (Block) with a close icon (X).
- Summary** with a dropdown arrow (v).
- Event Infos** (Calendar icon) with an expand icon (^).
- Start** set to "February 29, 2024 12:29 pm".
- Ende** with a "Set date" link and the text "Setting an end date is optional."
- Event Registration** (Ticket icon) with an expand icon (^).
 - Enable registration**
 - Should users be possible to register for this event?
 - AVAILABLE SEATS** with a dropdown menu.
 - The maximum number of guests that can register.
 - [Manage registrations](#)
- Categories** with a dropdown arrow (v).
- Hosts** with a dropdown arrow (v).
- Locations** with a dropdown arrow (v).

The bottom left corner of the main content area is labeled "Event".

Source: Custom Plugin



Aktualisieren

Seite Block X

Liste Slider

Reduziert

Spiele filtern ^

SAISON

Aktuelle Saison X

LIGEN

Zeige hervorgehobene Spiele (aller Ligen)

Vergangene Spiele anzeigen

VERGANGENE SPIELE ANZEI...

3

Zukünftige Spiele anzeigen

ZUKÜNFTIGE SPIELE ANZEI...

3

Erweitert v

Source: Custom Plugin

Example #2: Admin Page

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Add new product

[Save draft](#) [Preview](#) [Add](#) ⋮

[General](#) [Variations](#) [Organization](#) [Pricing](#) [Inventory](#) [Shipping](#) [Linked products](#)

Basic details ?

This is a standard product. [Change product type](#)

NAME ^{*}

SUMMARY

Summarize this product in 1-2 short sentences. We'll show it at the top of the page.

LIST PRICE SALE PRICE

Manage more settings in [Pricing](#).

Description ?

<https://github.com/woocommerce/woocommerce>

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Block Visibility ★ Review 🗨 Support 📖 Knowledge Base

General Settings Visibility Controls Block Manager


General Settings ⓘ Reset Settings Update

Editor ⓘ

CONTEXTUAL INDICATORS

Enable contextual indicators. ⓘ

INDICATOR COLOR ●



No color selected

Clear

CONTEXTUAL BLOCK OPACITY

Reduce block opacity when visibility controls are applied. ⓘ

BLOCK OPACITY

100

Need Support?

Whether you need help or have a new feature request, please create a topic in the support forum on WordPress.org.

[Support Forum](#)

Detailed documentation is also available on the plugin website.

[View Knowledge Base](#)

Share Your Feedback

If you are enjoying Block Visibility and find it useful, please consider leaving a ★★★★★ review on WordPress.org. Your feedback is greatly appreciated and helps others discover the plugin.

[Submit a Review](#)

<https://github.com/ndiego/block-visibility>



Donation Form



Build

Design

Settings

Save as Draft



Publish



25 \$

Who's Giving Today?

ion with anyone.

First name *

First name

Last name

Last name

Email Address *

Payment Details

How would you like to pay for your donation?

Payment Amount

Giving Frequency

options.

Name Title Prefix

Show Name Title Prefix

Do you want to add a name title prefix dropdown field before the donor's first name field? This will display a dropdown with options such as Mrs, Miss, Ms, Sir, and Dr for the donor to choose from.

First Name

LABEL

First name

PLACEHOLDER

First name

Last Name

LABEL

Last name

PLACEHOLDER

Last name

Required

Do you want to force the Last Name field to be required?

<https://github.com/impress-org/givewp>



Back to Dashboard

< Ollie Theme Setup

Welcome to the Ollie setup wizard! We'll help you get your site up and running in just a few minutes.

Welcome

Theme Setup

Video Library

Ollie Docs

Theme Setup

Let's get you up and running quicker with the setup wizard.

Get Started

Your Brand

Create Pages

Homepage

Finish

Your Brand

First, let's choose a color palette for your site and then add some branding. All settings are optional!

Color Palette

Choose a color palette that closely matches your brand. You can customize this later in Global Styles.

STYLES

Purple



Brand Color

Use the accent color above, or add your brand color to be used as the main accent color on your site.



No colo...

Logo

Choose an image to be used for your Site Logo. Your site title will be used if no logo is set.

Select Image



Go Back

Save and Continue

<https://github.com/OllieWP/ollie-dash>

Conclusion

Questions?

Let's talk

fabiantodt.at

fosstodon.org/@fabiantodt

Sources & further reading

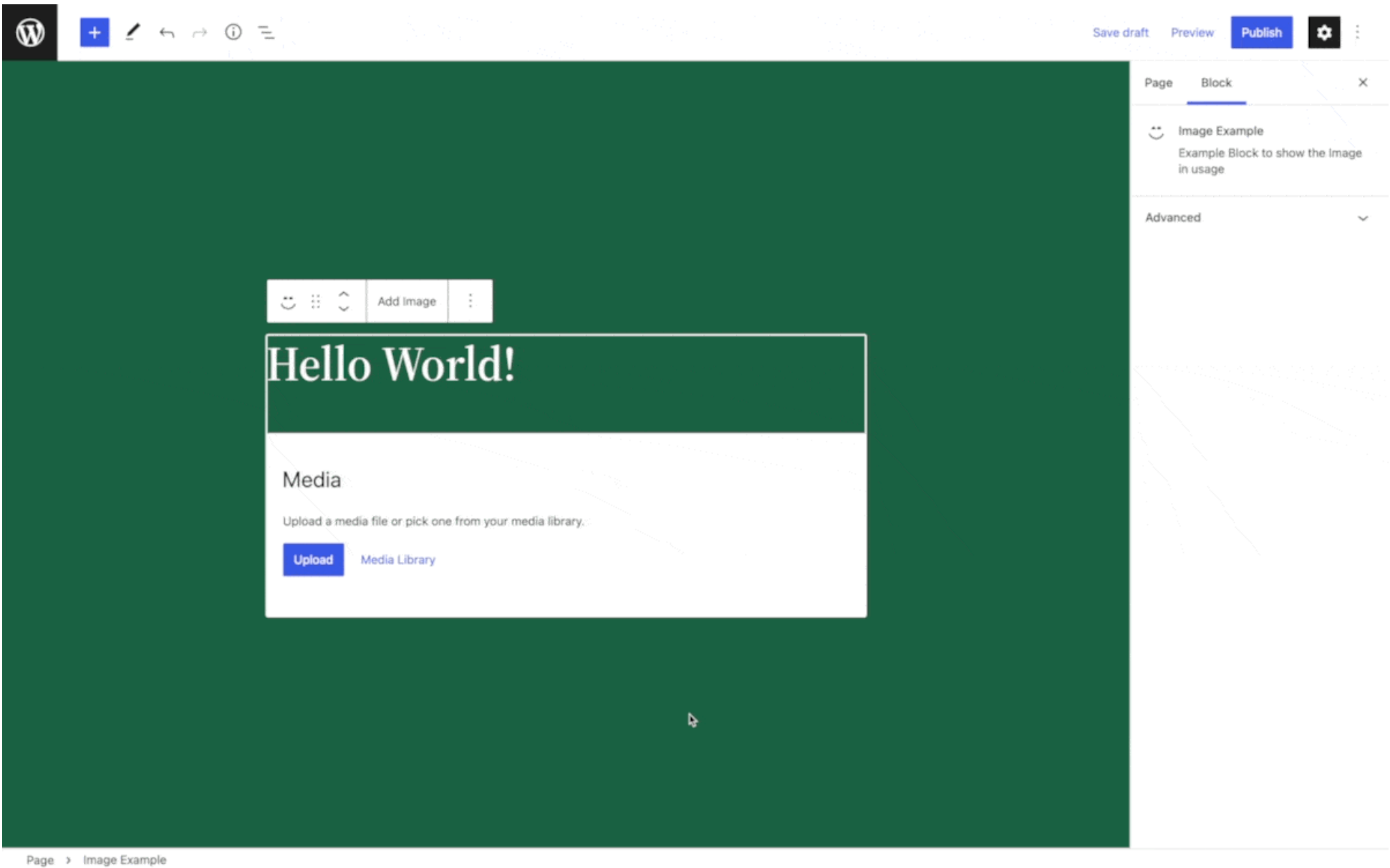
Sources & further reading

- Storybook: <https://wordpress.github.io/gutenberg>
- Developer Blog: <https://developer.wordpress.org/news/>
- Component Reference: <https://developer.wordpress.org/block-editor/reference-guides/components/>
- Ryan Welcher: <https://www.youtube.com/c/RyanWelcherCodes>
- <https://danielpost.com/part-1-creating-a-wordpress-options-page-using-react-and-gutenberg/>
- <https://fabiantodt.at/blog/category/wp-admin-components/>

More component libraries

10up Block Components

- Image upload and media toolbar
- Content picker
- Post data components
- Icon picker
- useTaxonomy / usePost Hooks
- Based on core components – uses core style




Source: <https://github.com/10up/block-components/>

Content Picker

Use the text field to search for a post

SELECT A POST OR PAGE

Source: <https://github.com/10up/block-components/>

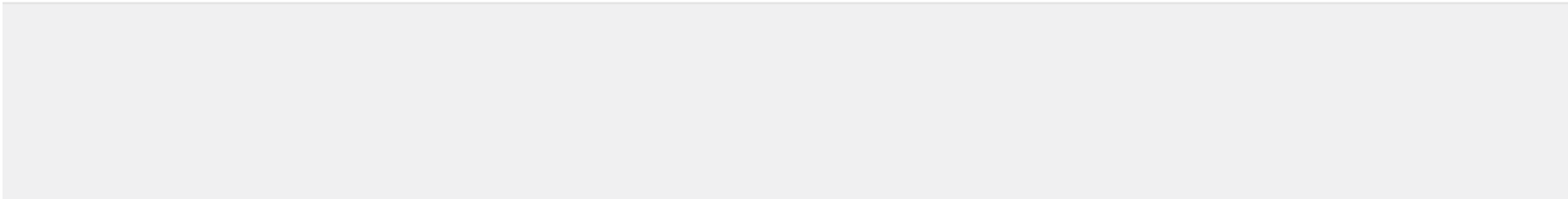
Goodenberg

- Single components (e.g. RecordSelect)
- Admin page components (e.g. Layout)
- Hooks & helpers (useApiFetch)
- Still in early development

Single Record Components

SELECT A POST

SELECT A CATEGORY



Source: <https://github.com/goodwp/goodenberg>

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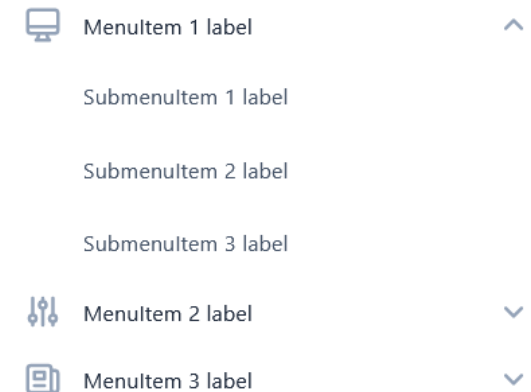


Source: <https://github.com/goodwp/goodenberg>

Yoast UI Library

- For Yoast extenders / developers
- Yoast based styling (spacing, borders, colors)
- Single elements + components

Header 1	Header 2	Header 3
Cell 1	Cell 2	Cell 3
Cell 1	Cell 2	Cell 3



Source: <https://ui-library.yoast.com>

WooCommerce Admin

- For WooCommerce extenders / developers
- Woo based styling (spacing, borders, colors)
- Used in new product editing experience
- Block checkout
- Data stores and selectors

More component libraries

- 10up Block Components: <https://github.com/10up/block-components>
- Yoast: <https://ui-library.yoast.com/>
- WooCommerce: <https://woocommerce.github.io/woocommerce-admin/#/components/>
- GoodenberG: <https://github.com/goodwp/goodenberG>