



New Kid on the Block: Crafting Custom Blocks

david wolfpaw (they/them)

david.garden/crafting-custom-blocks



About david

david wolfpaw (they/them) has been working with WordPress since 2008.

They provide Ongoing support and maintenance at FixUpFox.

They have proudly used SiteGround since 2013, and are part of the SiteGround WordPress Ambassador program.



**Thank You
SiteGround!**

@SiteGround

WP_ambassador()



Block Building Options

Each option has its own pros and cons to consider

Block Patterns

Custom HTML Block

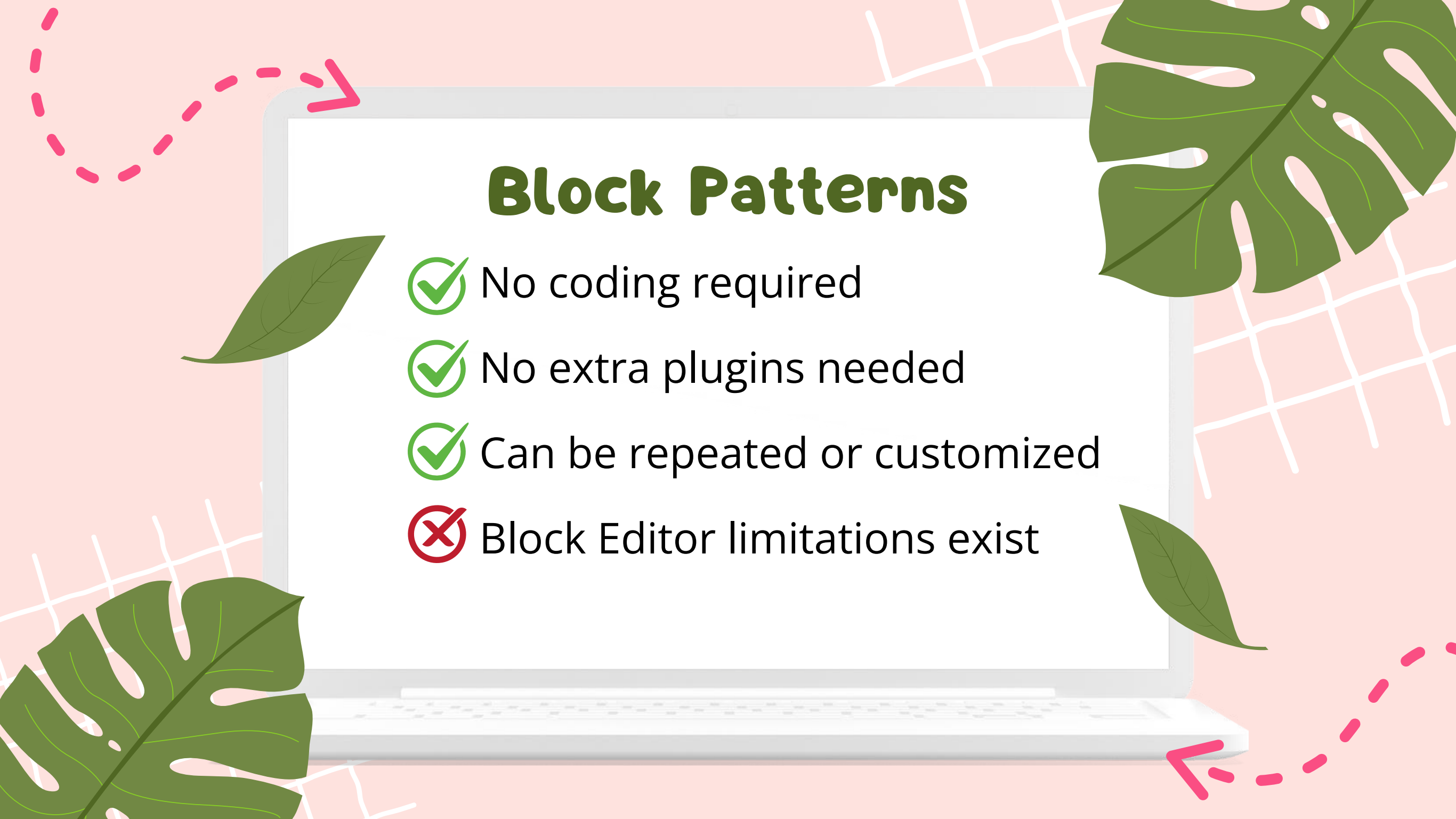
Advanced Custom Fields

Block Variations

Custom Blocks

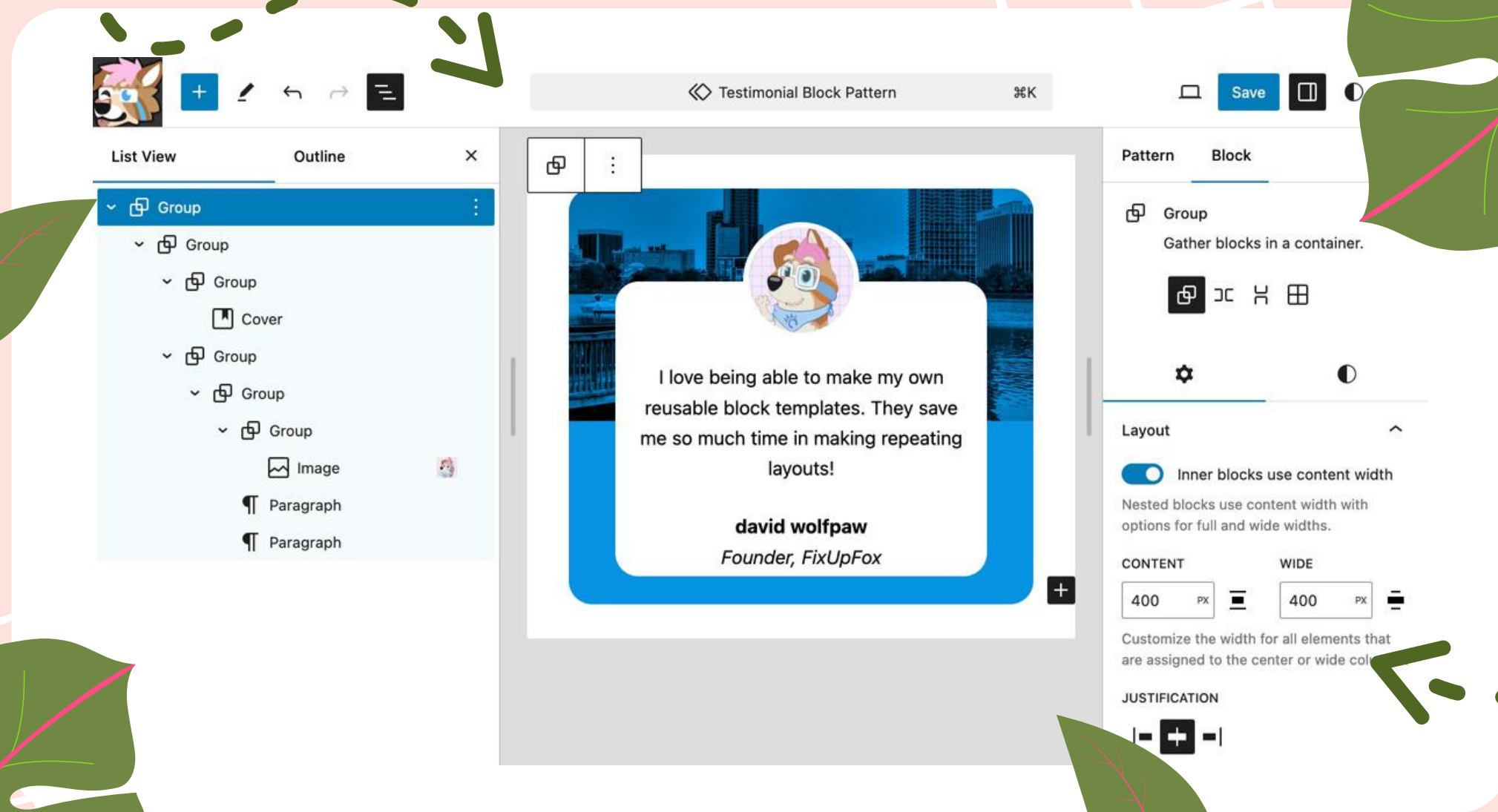
Block Patterns





Block Patterns

- ✓ No coding required
- ✓ No extra plugins needed
- ✓ Can be repeated or customized
- ✗ Block Editor limitations exist



Custom Block Pattern



I love being able to make my own reusable block patterns. They save me so much time in making repeating layouts!

david wolfpaw
Founder, FixUpFox



This is a repeated block pattern, but I changed some of the things like text and image in the post

david wolfpaw
Founder, FixUpFox

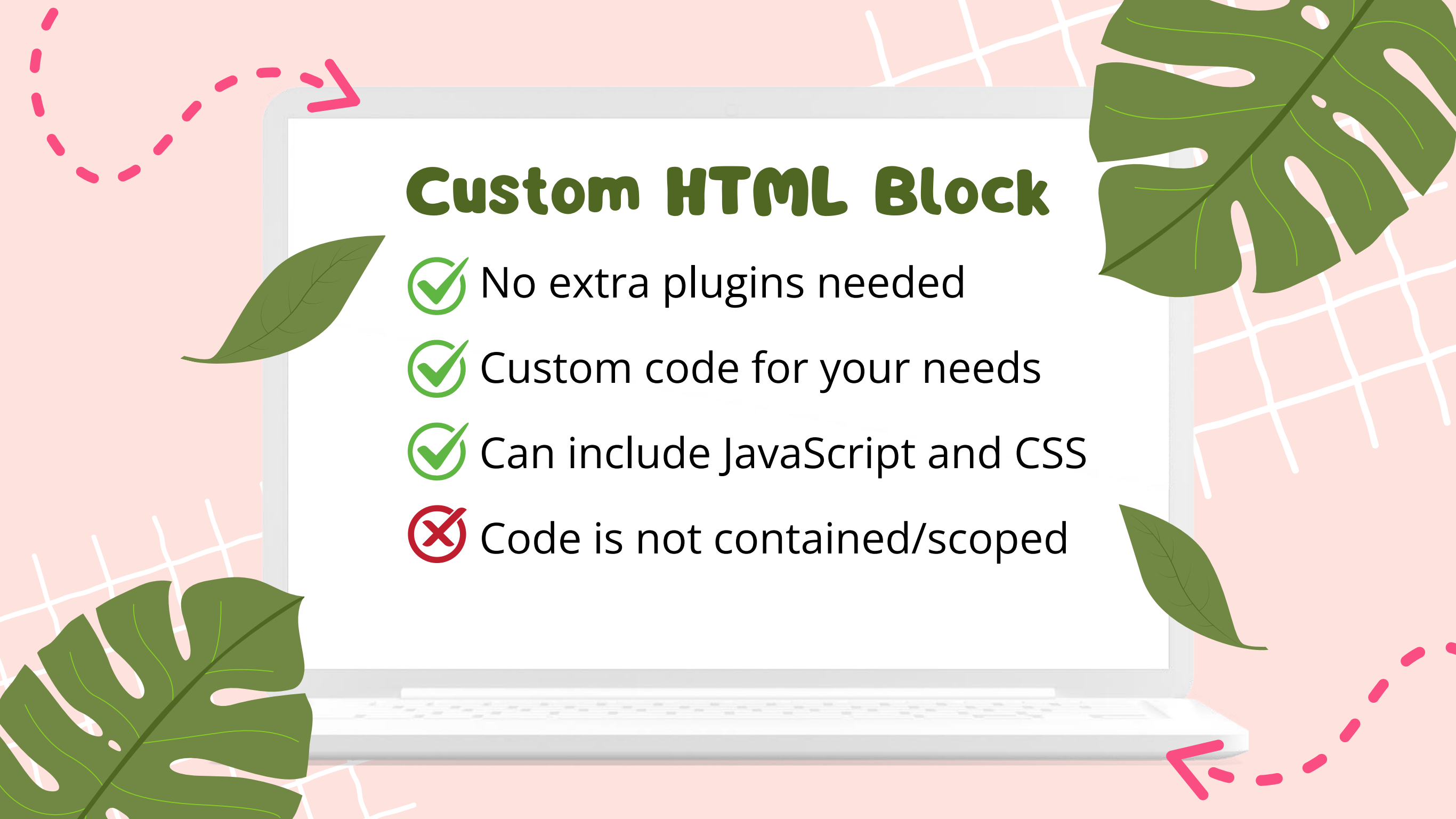


I duplicated the block pattern for a third time, and made a few more changes to it. Easy!

david wolfpaw
Founder, FixUpFox

Custom HTML Block





Custom HTML Block

- ✓ No extra plugins needed
- ✓ Custom code for your needs
- ✓ Can include JavaScript and CSS
- ✗ Code is not contained/scoped

HTML

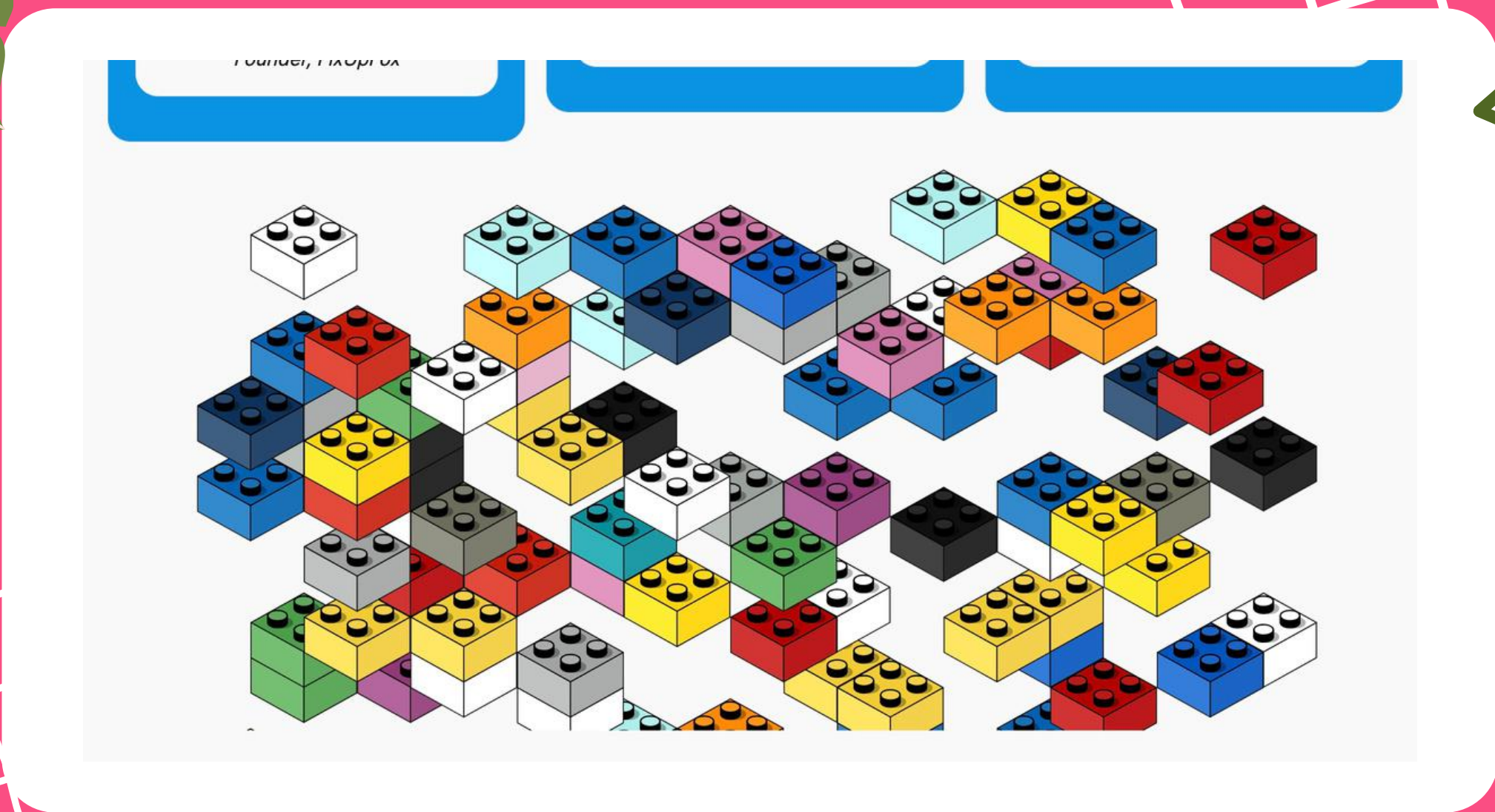


HTML

Preview

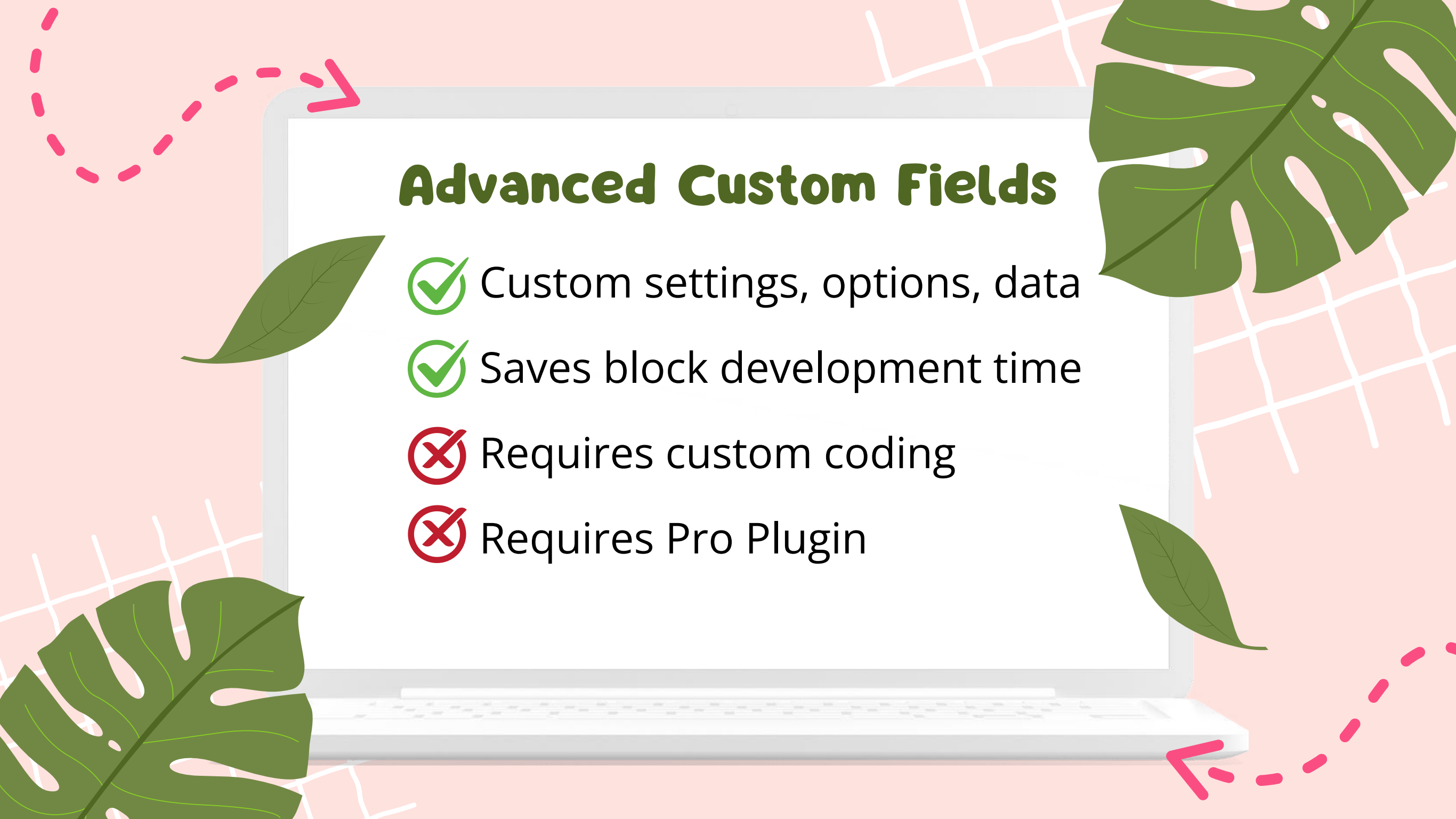


```
rx="8.4" ry="4.2" opacity="0.1" /></g><use href="#stud"
transform="translate(0 26.7)" /><use href="#stud" transform="translate(-24.8
13.4)" /><use href="#stud" transform="translate(24.8 13.4)" /></g></defs><g
id="legosHere"></g></svg>
</div>
<script>
const legoColors = [
  "#FFFFFF", // White
  "#111111", // Black
  "#0055BF", // Blue
  "#FFD500", // Yellow
  "#C91A09", // Red
```





Advanced Custom Fields



Advanced Custom Fields

- ✓ Custom settings, options, data
- ✓ Saves block development time
- ✗ Requires custom coding
- ✗ Requires Pro Plugin

Field Name

slider

Single word, no spaces. Underscores and dashes allowed

Sub Fields

Fields

+ Add Field

#	Label	Name	Type
1	▼ Name *	name	T Text
2	▼ Position	position	T Text
3	▼ Logo	logo	🖼 Image
4	▼ Text *	text	📄 Text Area

+ Add Field

Layout

Table ☐ Block ☐ Row

Satisfaction Since 2005

Slides

	Name *	Position	Logo	Text *
1	Robyn Sue Fisher	Founder, Smitten		"We're about to open our 10th location we are still Smitten with our name"
2	Paula Bennett	Founder, Grail		"Everyone told me not to pay a firm to name my brand. I wasted six months trying on my own
	Duan Combe	Founder, Spoon Me		"Hiring Est My Words



Serving Satisfaction Since 2005



“They delivered more than promised and led us through a thoughtful, rewarding process that our entire team valued. I highly recommend them.”

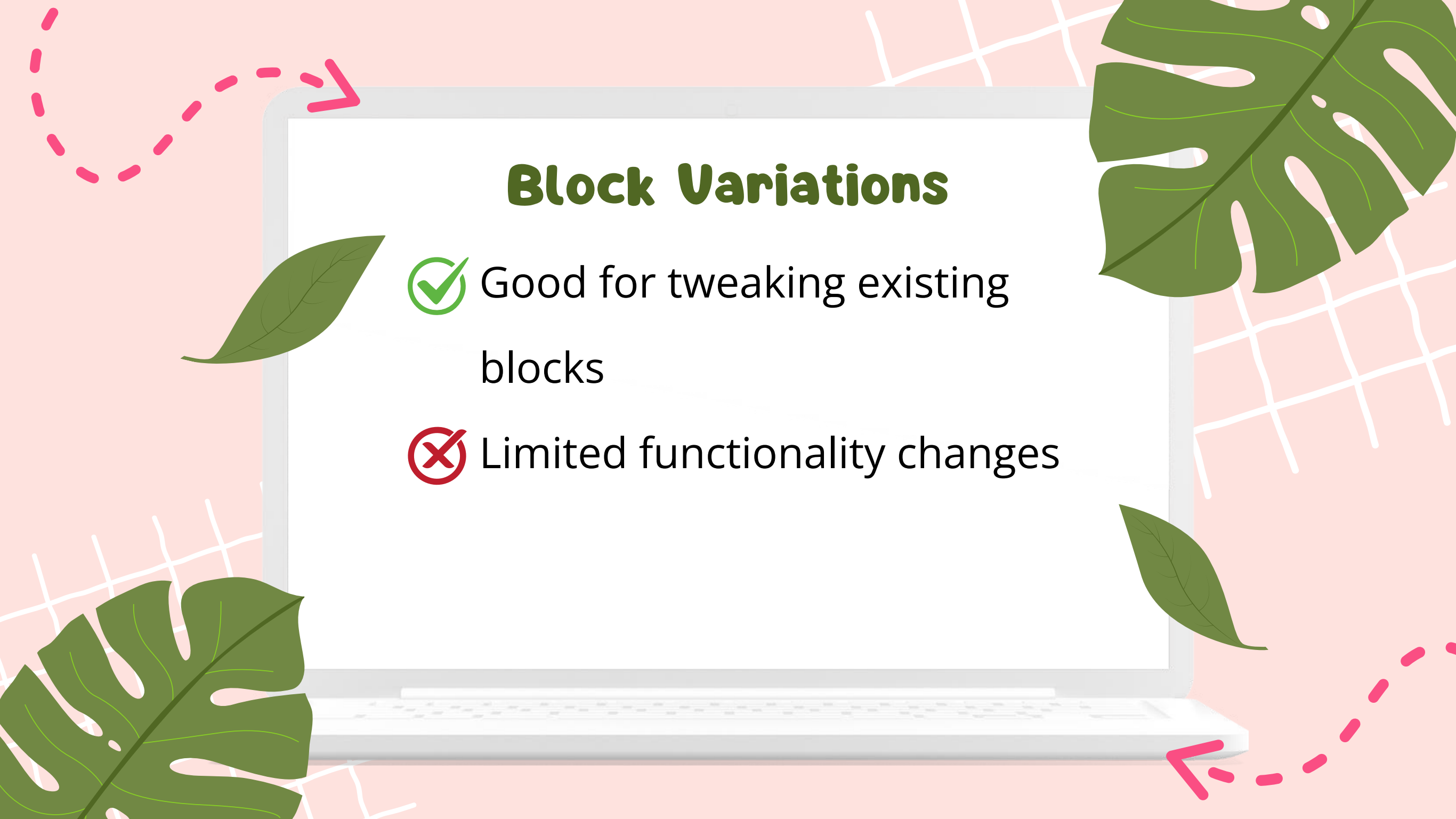
Linda Pouliot

CEO and Founder, Dishcrafts Robotics



Block Variations





Block Variations



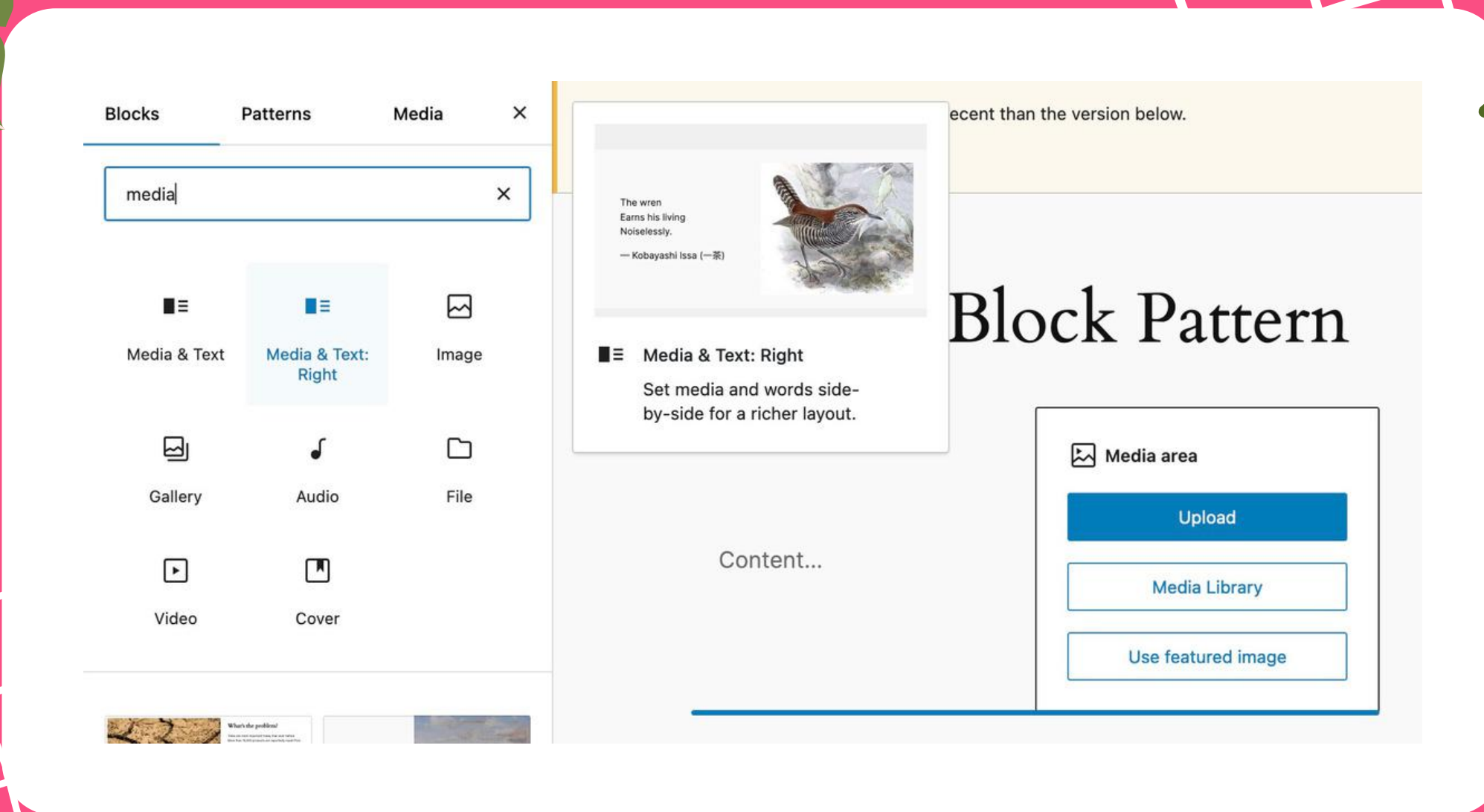
Good for tweaking existing blocks



Limited functionality changes



```
add_filter( 'get_block_type_variations', 'ttfour_block_type_variations' );
function ttfour_block_type_variations( $variations, $block_type ) {
    if ( 'core/media-text' === $block_type->name ) {
        $variations[] = array(
            'name'      => 'ttfour-media-right',
            'title'     => __( 'Media & Text: Right', 'ttfour' ),
            'isActive'  => array(
                'mediaPosition',
            ),
            'attributes' => array(
                'mediaPosition' => 'right',
            ),
        );
    }
    return $variations;
}
```



Blocks

Patterns

Media



media



Media & Text



Media & Text:
Right



Image



Gallery



Audio



File



Video



Cover



Media & Text: Right

Set media and words side-
by-side for a richer layout.

Content...

Recent than the version below.

Block Pattern



Media area

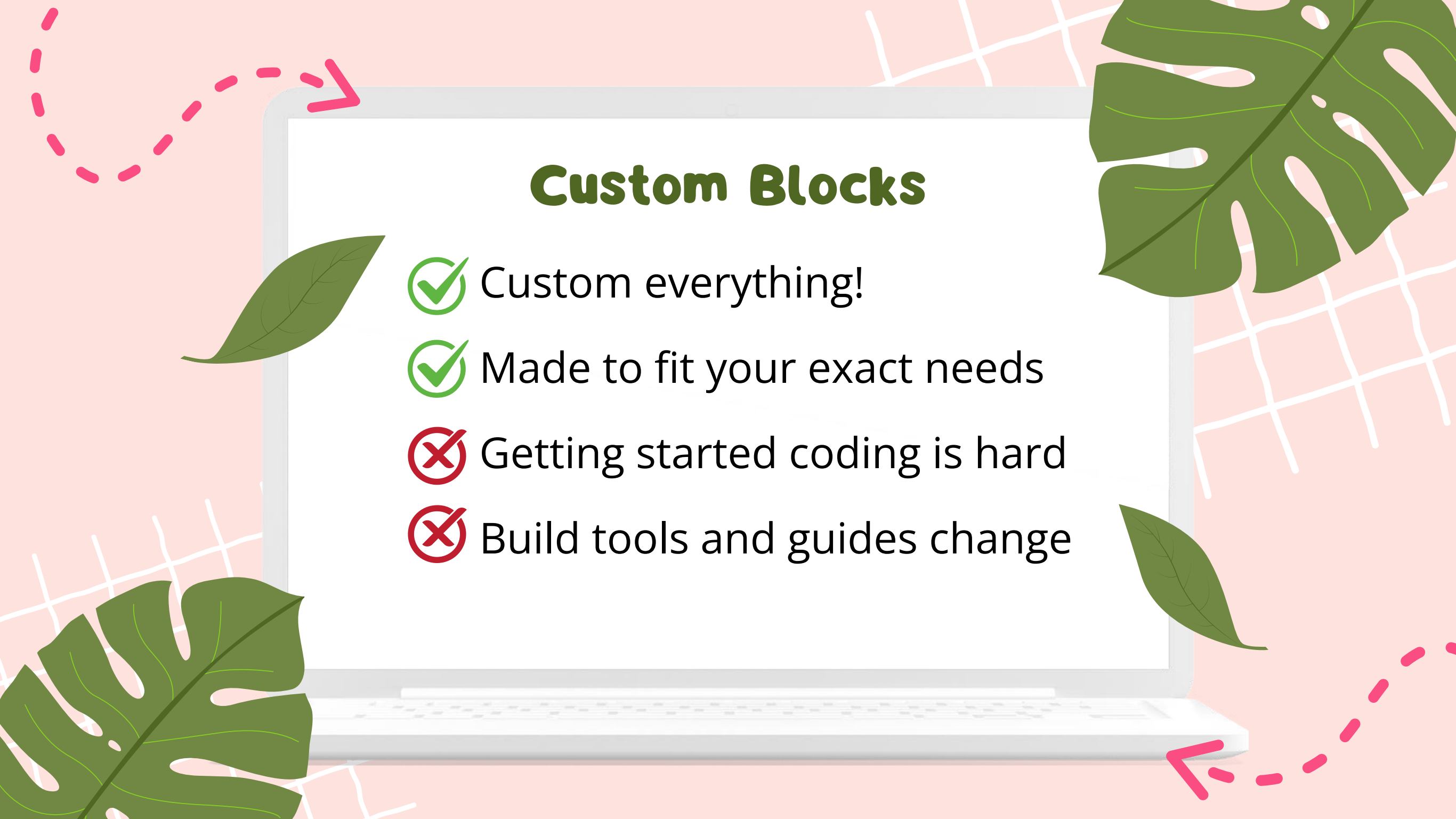
Upload

Media Library

Use featured image

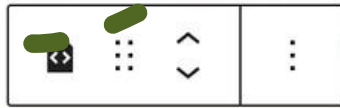


Custom Blocks



Custom Blocks

- ✓ Custom everything!
- ✓ Made to fit your exact needs
- ✗ Getting started coding is hard
- ✗ Build tools and guides change



ers, issues, and contributors.

Enter a valid GitHub repository URL in the block settings.



GitHub-Repo-Card-Block

Owner: davidwolfpaw

Description: The GitHub Repo Card Block is a custom WordPress block that allows you to display detailed information about a GitHub repository directly within your posts or pages.

👤 1

Contributors

★ 0

Stars

👁 0

Watchers

🍴 0

Forks

🗨 0

Issues

Portfolio Item



GitHub Repo C

GitHub Repository UF

REPOSITORY URL

Enter GitHub repo URL

Friends Visibility

BLOCK VISIBILITY

For everyone

Advanced



GitHub-Repo-Card-Block

Owner: davidwolfpaw

Description: The GitHub Repo Card Block is a custom WordPress block that allows you to display detailed information about a GitHub repository directly within your posts or pages.

👤 1

Contributors

★ 0

Stars

👁 0

Watchers

🔗 0

Forks

🔍 0

Issues



Static vs Dynamic Blocks



Static Block

The frontend output is stored in the database and returned on the frontend.

For instance, a paragraph block



Dynamic Block

The frontend output is generated dynamically upon page load.

For instance, the Latest Posts block





Resources

- [@wordpress/create-block](#)
- [developer.wordpress.org/block-editor/](#)
- [advancedcustomfields.com/resources/blocks/](#)
- [https://developer.wordpress.org/news/2024/08/15/how-to-extend-a-wordpress-block/](#)

Thank you! Questions?

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