

dynamic gutenberg blocks



by raquel m smith



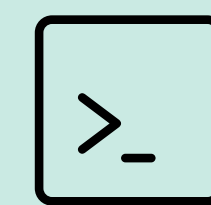
hello@**raquelmsmith**.com

about me

I'm a product manager with a passion for the front-end,
particularly Javascript, React, & WordPress.



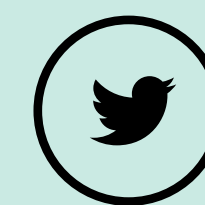
product manager



front-end developer



wp tasty



@raquel_m_smith

dynamic **guttenberg** blocks

overview

01 what is
guttenberg

02 what is a
dynamic block

03 creating
dynamic blocks

04 q&a

dynamic **gutenberg** blocks

what is gutenberg

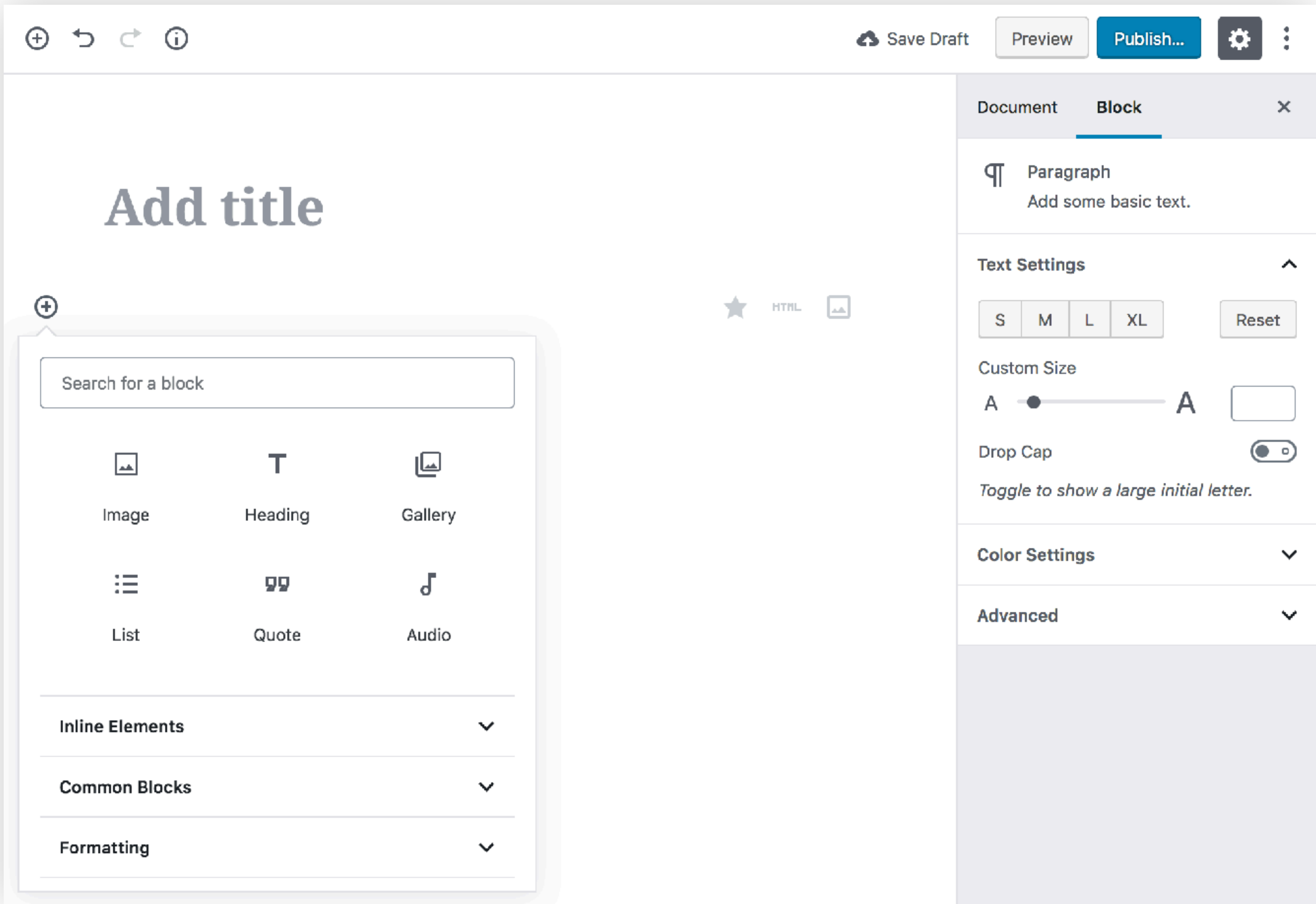


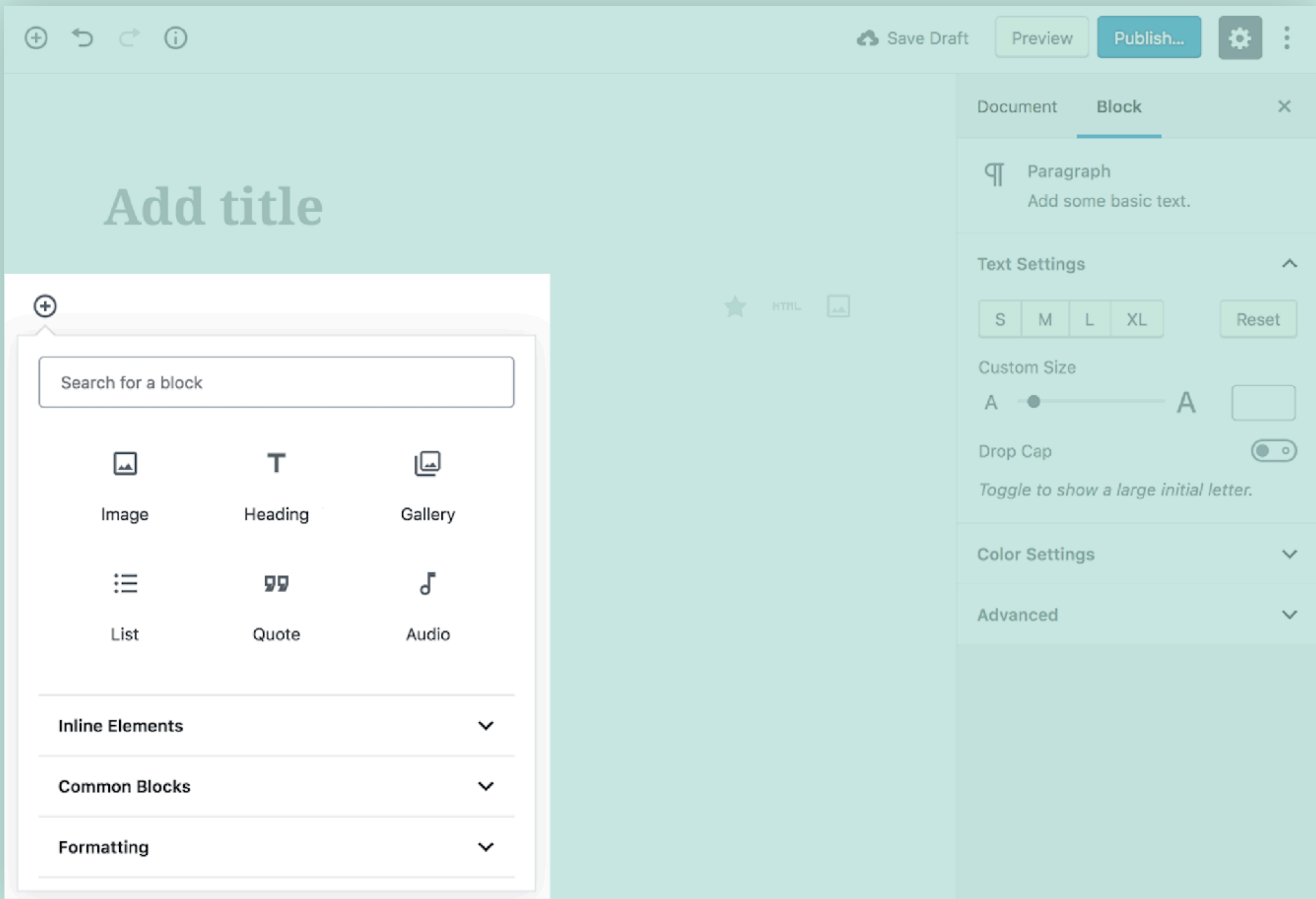


gutenberg is a **reimagining** of the wordpress content editor

meant for easily creating **rich content and layouts**

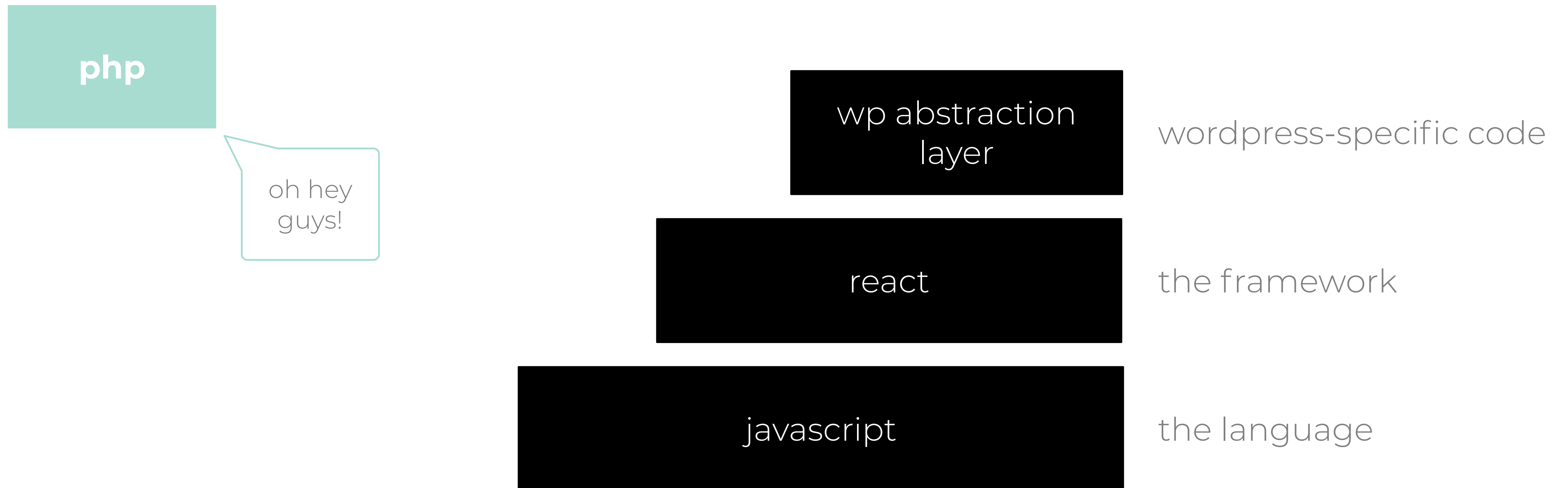
built with **modern tools**, such as javascript and react.





dynamic **guttenberg** blocks

structure




ES6 for Everyone — The best way to learn ES6

ES6 FOR EVERYONE!

Updated for ES7/ES2016 and ES8/ES2017 including Async+Await, Babel 7 and more!
This is a free update for all 18,961 of you who have already bought!

A premium training course to strengthen your core JavaScript skills and master all that ES6 has to offer. Join 18,961 in Learning Now →



JavaScript is changing. Here's how to stay on top. ES6 is a major update to JavaScript with a focus on features that are important when and where you need them. Join me for a fun and easy way to boost your skills and master ES6.

Buy the Course →


MEET WES BOS

es6.io

React For Beginners — The best way to learn React

Totally updated with the latest best practices in React 16.3, ES6, Async + Await, React Router 4 and more. Free update to all 22,688 of you who have already purchased the course. Enjoy!

UPDATED & RE-RECORDED!



REACT FOR BEGINNERS

JOIN 22,688 OTHERS. UPGRADE YOUR JAVASCRIPT SKILLS. LEARN REACT.JS IN JUST A COUPLE OF AFTERNOONS.

A premium step-by-step training course to get you building real world React.js + Firebase apps and website components.

START LEARNING NOW

IT'S TIME TO LEARN REACT.JS

With a focus on simplicity and readability, this course will have you building real time applications and dynamic website components in no time.

reactforbeginners.com

Gutenberg Development Course

Learn JavaScript Deeply w/ Zac Gordon


Support Forums Slack Channel Contact My Account Log In

JavaScript for WordPress

Search ...

Home Bootcamp Courses Book Conference Shows Blog Shop \$0.00 (0 items)

Home / Courses / Gutenberg Development Course



Gutenberg Development Course

★★★★★ (10 customer reviews)

\$79.00

Learn the architecture, libraries and know how for working with the new Gutenberg Block Editor for WordPress.

NOTE: A \$39 abridged version of this course exists on Udemy if you are not able to afford the full version of the course here.

☒ Individual ☐ Group

Add to cart

SKU: GUTENBERG
Category: [Courses](#)

Chat w/ Zac


gutenberg.courses

LEARN ALL THE THINGS!



dynamic **gutenberg** blocks

what is a dynamic block



A solid teal square is positioned to the left of the first line of text.

dynamic blocks are blocks whose **content changes**

without any **user action**

based on information returned from **APIs**.

Latest Posts!



- [How to teach your dog to sit](#)
- [Why your cat lashes out irrationally](#)
- [6 signs your dog loves you](#)
- [How to groom your dog](#)

Add text or type / to add content

Document

Block



Latest Posts

Display a list of your most recent posts.

Latest Posts Settings



Order by

Newest to Oldest



Category

All



Number of items



4

Display post date



Advanced



Latest Posts!



- [4 creative ways to get your cat to snuggle with you](#)
- [How to teach your dog to sit](#)
- [Why your cat lashes out irrationally](#)
- [6 signs your dog loves you](#)

Add text or type / to add content

Document

Block



Latest Posts

Display a list of your most recent posts.

Latest Posts Settings



Order by

Newest to Oldest



Category

All



Number of items



4

Display post date



javascript

Latest Posts!

SEPTEMBER 16, 2018

- 4 creative ways to get your cat to snuggle with you
- How to teach your dog to sit
- Why your cat lashes out irrationally
- 6 signs your dog loves you

yep,
that's all
me

php

dynamic **gutenberg** blocks

creating dynamic blocks



dynamic **guttenberg** blocks

process



01

**create-guten-
block**

03

**front-end
display with php**

02

**editor behavior
with javascript**

editor display

My Pets

- [Sketchers](#)
- [Chalupa Batman \(Chupey\)](#)
- [Dedas](#)

custom post type

Pets

Add New ▼

All (4) | Published (4) | Cornerstone content (0)

<input type="checkbox"/>	Title	
<input type="checkbox"/>	Sketchers — Gutenberg	▼
<input type="checkbox"/>	Chalupa Batman (Chupey) — Gutenberg	▼
<input type="checkbox"/>	Dedas — Gutenberg	▼
<input type="checkbox"/>	Riggs — Gutenberg	▼
	Edit Classic Editor Quick Edit Trash View	
<input type="checkbox"/>	Title	

front-end display

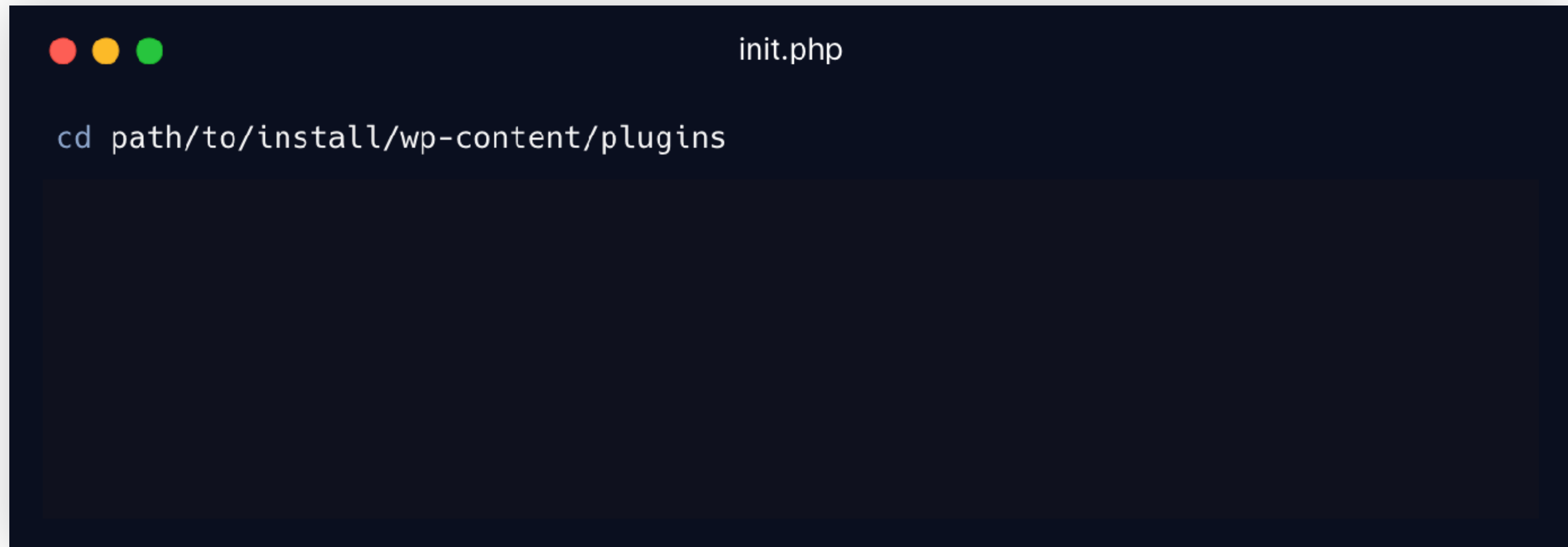
Test My Pets Plugin

SEPTEMBER 18, 2018

- Sketchers
- Chalupa Batman (Chupey)
- Dedas

01

create-guten-block



```
init.php  
cd path/to/install/wp-content/plugins
```

01

create-guten-block



init.php

```
cd path/to/install/wp-content/plugins
```

```
# install dependencies, create plugin folder with necessary files  
npx create-guten-block my-pets
```

01

create-guten-block



init.php

```
cd path/to/install/wp-content/plugins  
  
# install dependencies, create plugin folder with necessary files  
npx create-guten-block my-pets  
  
# get yourself into the plugin folder  
cd my-pets
```

01

create-guten-block



init.php

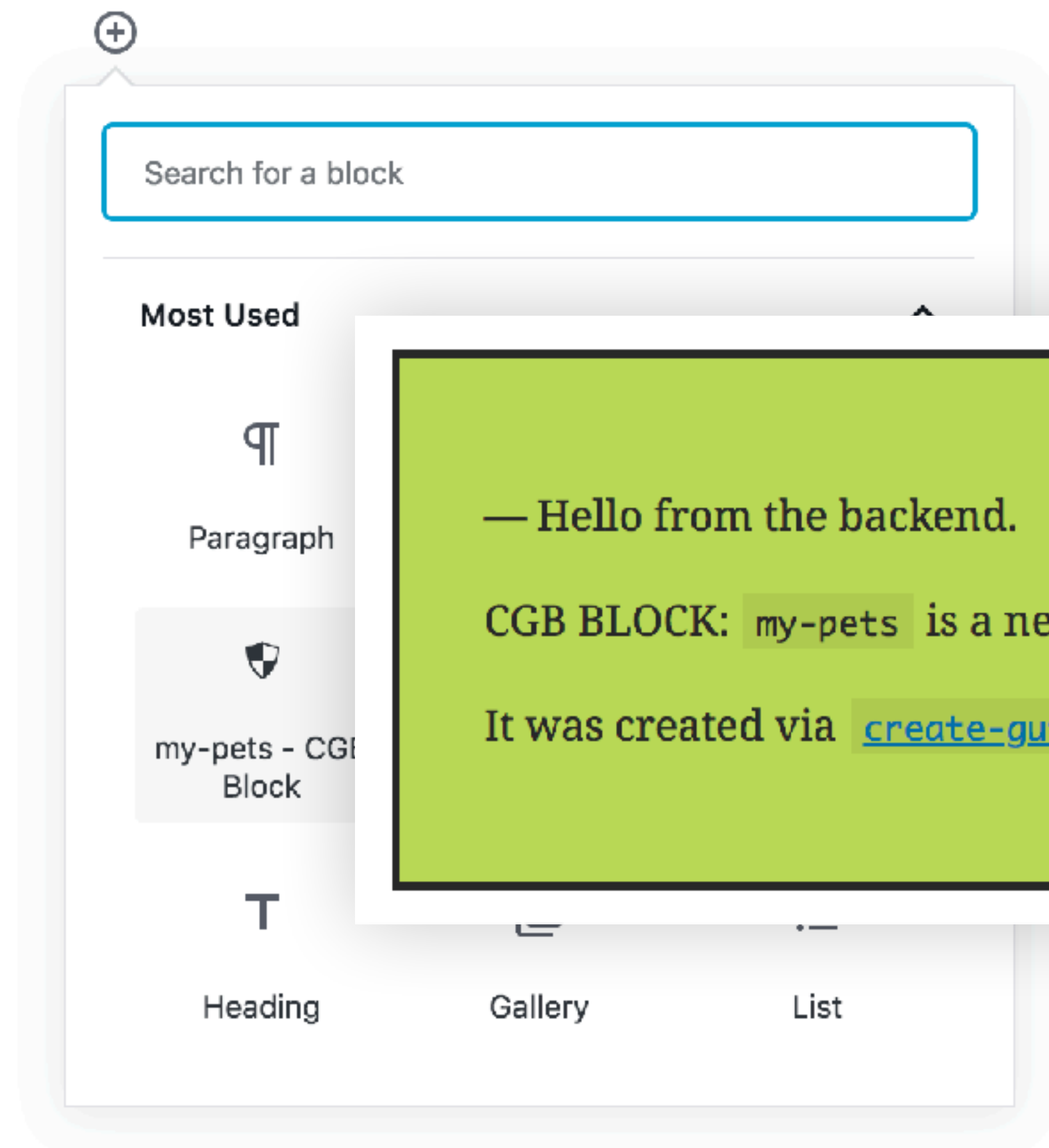
```
cd path/to/install/wp-content/plugins  
  
# install dependencies, create plugin folder with necessary files  
npx create-guten-block my-pets  
  
# get yourself into the plugin folder  
cd my-pets  
  
# fire up the engine  
npm start
```

- my-pets
 - dist
 - JS blocks.build.js
 - # blocks.editor.build.css
 - # blocks.style.build.css
 - node_modules
 - src
 - block
 - JS block.js
 - editor.scss
 - style.scss
 - JS blocks.js
 - common.scss
 - init.php
 - .editorconfig
 - .eslintignore
 - .eslintrc.json
 - package-lock.json
 - package.json
 - plugin.php
 - README.md

dynamic **gutenberg** blocks

handy tip

make sure to **activate the plugin** you just created in the wordpress admin before going to look for your shiny new block.



— Hello from the backend.

CGB BLOCK: `my-pets` is a new Gutenberg block

It was created via [create-guten-block](#).

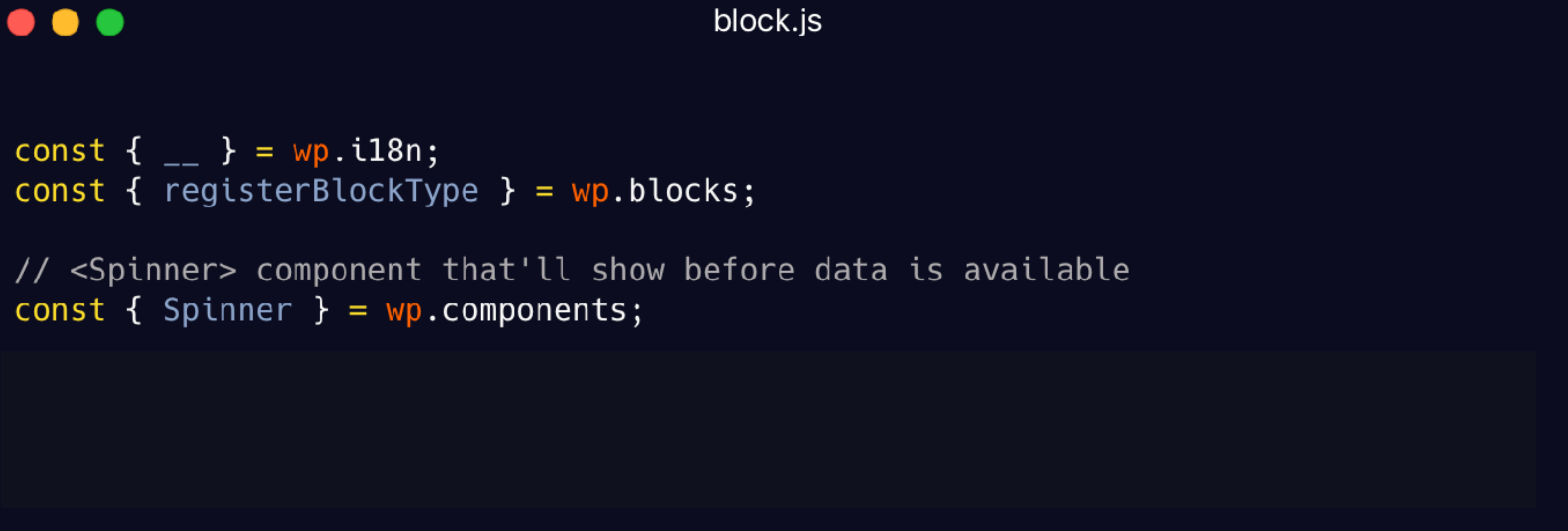
02 editor behavior with javascript



```
block.js

const { __ } = wp.i18n;
const { registerBlockType } = wp.blocks;
```

02 editor behavior with javascript



```
const { __ } = wp.i18n;  
const { registerBlockType } = wp.blocks;  
  
// <Spinner> component that'll show before data is available  
const { Spinner } = wp.components;
```

02 editor behavior with javascript

```
block.js

const { __ } = wp.i18n;
const { registerBlockType } = wp.blocks;

// <Spinner> component that'll show before data is available
const { Spinner } = wp.components;

// withSelect helps us get our data
const { withSelect } = wp.data;
```



block.js

```
// 👉 stuff related to block setup
```

```
edit:
```



block.js

```
// 👉 stuff related to block setup

edit: withSelect( select => {
  // get the data we need
})(() => {
  //do something with the data when state changes
}),
```



block.js

```
// 🖱️ stuff related to block setup

edit: withSelect( select => {
  // get the data we need

  const { getEntityRecords } = select( 'core' );
  return {
    [ myPets: getEntityRecords( 'postType', 'pet', {
      per_page: 3
    })
  ];
} )(( ) => {
  //do something with the data when state changes
} ),
```

 [getEntityRecords documentation](#)

 [wp.data package documentation](#)



block.js

```
// 📌 stuff related to block setup
```

```
edit: withSelect( select => {
```

```
  // get the data we need
```

```
  const { getEntityRecords } = select('core');
```

```
  return {
```

```
    myPets: getEntityRecords( 'postType', 'pet', {
```

```
      per_page: 3
```

```
    })
```

```
  };
```

```
})( { myPets, className } => {
```

```
  return (
```

```
    // Structure out what we want
```

```
    <ul>
```

```
      <li>Pet 1</li>
```

```
      <li>Pet 2</li>
```

```
      <li>Pet 3</li>
```

```
    </ul>
```

```
  );
```

```
}),
```




block.js

```
// 🙌 stuff related to block setup
```

```
edit: withSelect( select => {  
  ...
```

```
})( { myPets, className } => {  
  return (  
    <ul>  
      { myPets.map( pet => {  
        [ ]  
      }) }  
    </ul>  
  );  
}),
```



block.js

```
// 📁 stuff related to block setup

edit: withSelect( select => {
  ...

})( { myPets, className } => {
  return (
    <ul>
      { myPets.map( pet => {
        return (
          <li>
            <a className={className} href={pet.link}>
              {pet.title.rendered}
            </a>
          </li>
        );
      } ) }
    </ul>
  );
} ),
```

This block has encountered an error and cannot be previewed.





block.js

```
// 👉 stuff related to block setup

edit: withSelect( select => {
  // get the data we need
})(() => {
  //do something with the data when state changes
}),
```



block.js

```
// 🖱️ stuff related to block setup

edit: withSelect( select => {
  // ...
})( { myPets, className } => {
  if (!myPets) {
    return (
      <p>
        <Spinner />
        {__("Loading Posts")}
      </p>
    );
  }
  return (
    <ul>
      // ...|
    </ul>
  );
}),
```

Loading Pets

My Pets



- [Sketchers](#)
- [Chalupa Batman \(Chupey\)](#)
- [Dedas](#)



block.js

```
// 🖱️ stuff related to block setup
```

```
edit: withSelect( select => {
```

```
  // ...
```

```
})( { myPets, className } => {
```

```
  if (!myPets) {
```

```
    // ...
```

```
  }
```

```
[ if (myPets && myPets.length === 0) {
```

```
  return "no posts";
```

```
}
```

```
  return (
```

```
    <ul>
```

```
      // ...
```

```
    </ul>
```

```
  );
```

```
}),
```


No posts

My Pets



block.js


```
// 🖱️ stuff related to block setup
```

```
edit: withSelect( select => {  
  // ...  
}),
```

```
save: function() {  
  return null;  
},
```



03 front-end display with php



```
init.php

function register_dynamic_block() {
    register_block_type(
        // ...
    );
}
```



init.php

```
function register_dynamic_block() {  
    register_block_type(  
        'my-pets/recent-posts',  
  
    );  
}
```



init.php

```
function register_dynamic_block() {  
    register_block_type(  
        'my-pets/recent-posts',  
        array(  
            'render_callback' => 'my_pets_dynamic_posts',  
        )  
    );  
}
```




init.php

```
function register_dynamic_block() {  
    register_block_type(  
        'my-pets/recent-posts',  
        array(  
            'render_callback' => 'my_pets_dynamic_posts',  
        )  
    );  
}  
  
add_action( 'init', 'register_dynamic_block' );
```



init.php

```
function register_dynamic_block() {  
    register_block_type(  
        'my-pets/recent-posts',  
        array(  
            'render_callback' => 'my_pets_dynamic_posts',  
        )  
    );  
}  
  
add_action( 'init', 'register_dynamic_block' );  
  
function my_pets_dynamic_posts( $attributes ) {  
    $block_content = "";  
    // WP_Query or whatever you need to do to get and format the data  
    return $block_content;  
}
```

init.php

```
function register_dynamic_block() {
    register_block_type(
        'my-pets/recent-posts',
        array(
            'render_callback' => 'my_pets_dynamic_posts',
            'attributes' => array(
                'att1' => array(
                    'type' => 'string'
                ),
            ),
        )
    );
}

add_action( 'init', 'register_dynamic_block' );

function my_pets_dynamic_posts( $attributes ) {
    $block_content = "";
    // WP_Query or whatever you need to do to get and format the data
    return $block_content;
}
```

Test My Pets Plugin

SEPTEMBER 18, 2018

- Sketchers
- Chalupa Batman (Chupey)
- Dedas

04 q&a

dynamic **guttenberg** blocks



thanks!
