dynamic gutenberg blocks

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

overview

01 what is Gutenberg

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 Gutenberg blocks

structure

php

oh hey guys!

wp abstraction layer

wordpress-specific code

react

the framework

javascript

the language
LEARN ALL THE THINGS!
what is a dynamic block
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
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
yep, that’s all me
dynamic Gutenberg blocks

creating dynamic blocks
dynamic Gutenberg blocks

process

01 create-gutenberg-block

02 editor behavior with javascript

03 front-end display with php
**custom post type**

**editor display**

- Sketchers
- Chalupa Batman (Chupey)
- Dedas

**front-end display**

Test My Pets Plugin

**SEPTEMBER 18, 2018**

- Sketchers
- Chalupa Batman (Chupey)
- Dedas
create-guten-block

cd path/to/install/wp-content/plugins
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
```
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
create-guten-block

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
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`.
editor behavior with javascript

```javascript
const { __ } = wp.i18n;
const { registerBlockType } = wp.blocks;
```
editor behavior with javascript

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

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

```javascript
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;
```
// 🌟 stuff related to block setup

def:
block.js

// stuff related to block setup

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

withSelect documentation
// 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
},)
// 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>
  );
});
// 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. :(
// stuff related to block setup

edit: withSelect( select => {
  // get the data we need
})(() => {
  // do something with the data when state changes
}),
// stuff related to block setup

edit: withSelect( select => {
  // ...
})(myPets, className) => {
  if (!myPets) {
    return (
      <p>
        <Spinner />
        {__("Loading Posts")}
      </p>
    );
  }
  return (
    <ul>
      // ...
    </ul>
  );
},
Loading Pets
- Sketchners
- Chalupa Batman (Chupey)
- Dedas
block.js

// some 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
// stuff related to block setup

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

save: function() {
  return null;
},
03  front-end display with php

```php
function register_dynamic_block() {
    register_block_type(
        ...
    );
}
```
function register_dynamic_block() {
    register_block_type('my-pets/recent-posts',
);
}
function register_dynamic_block() {
    register_block_type('my-pets/recent-posts',
        array('render_callback' => 'my_pets_dynamic_posts'),
    );
}
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 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;
}
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;
}
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04 q&a
thanks!