# Locking blocks in the Full Site Editor

## Description

Theme creators can now lock blocks so that editors and authors cannot modify the layout of the block in unexpected ways. In this session we'll explore the options to lock content in the file editor and how to leverage the locking mechanism when developing themes.

## Objectives

After completing this lesson, participants will be able to:

- Identify the different locking mechanism for WordPress blocks
- Explain the differences between the available locking mechanism and give an example of each locking

## Prerequisite Skills

Participants will get the most from this lesson if they have familiarity with:

- Completed the Basic WordPress Concepts lesson
- Ability to edit block themes

## Readiness Questions

- Do you want to make changes to your theme?
- Do you need to prevent other developers from making changes to your theme's templates?
- What elements of the selected blocks do you want to lock?

## Slides

Change the /repo-name/ in the link to match the URL name of this repo.

Slides (files included in this repo)

# Materials Needed

- A local install of WordPress
- The TwentyTwentytwo theme installed and active

# Notes for the Presenter

- While we can lock specific blocks in the theme, it should be possible for other developers working on the same theme to undo the locks
- We ask for a specific theme so we can all be on the same page rather than having to figure out what each theme is doing
- This feature is only available in WordPress 6.0 or later
    - It is also available in 5.8 and 5.9 running the Gutenberg plugin but we will not cover that in this lesson plan
- This is a separate feature from template locking

# Lesson Outline

- Introduction
    - Presenter
    - Content: What are we going to cover
    - What it is
    - Why is this important?
- Setting expectations
    - This is for blocks only
    - It is different than template locking
- Locking blocks
    - Preventing removal
        - In what circumstances would this be useful?
    - Preventing movement
        - Why would this be useful?
    - Combining the two
- Demo time
    - Show how to set the locking up
    - Show that it actually works
- Working out permissions: Who can do what?
- Q & A

# Exercises

**Preparation.**

- Working with the TwentyTwentytwo theme, complete the following actions:
    - Go into the site editor
    - Select template editor > home
    - Create a group block
    - Create two paragraph blocks inside the header. You can choose whatever text you want for each paragraph

**Lock movement.**

- Working with the TwentyTwentytwo theme, complete the following actions:
    - Go into the site editor
    - Select template editor > home
    - In the home template select the first paragraph block below the header
        - Click the options menu and select the lock menu item
        - In the lock popup select `disable movement`
        - Click `Apply`

**Lock removal.**

- In the TwentyTwentytwo theme, complete the following actions:
    - Go into the full site editor
    - Select template editor > home
    - In the home template select the second paragraph that you created under the header
        - Click the options menu and select the lock menu item
        - In the lock popup select `prevent removal`
        - Click `Apply`

**Locking both.**

- In the TwentyTwentytwo theme, complete the following actions:
    - Go into the full site editor
    - Select template editor > home
    - In the home template select the second paragraph you created under the header
        - Click the options menu and select the lock menu item

- In the lock popup select `disable movement`
- Make sure that the `prevent removal` option is still selected
  **The `Select All` option will become checked once you select the second option**
- You can also click the `Select All` option to select all of the options
- Click `Apply`

**Test the locking system.**

- In the TwentyTwentytwo theme, complete the following tasks
    - Try to move the second paragraph in the block underneath the header. You should not be able to remove it
    - Likewise, try removing the either paragraph. You should be able to do this
    - Try moving the block containing the two paragraphs. It should move like normal.

# Assessment

Who can lock blocks?

1. Administrators
2. Editors
3. Anyone who can edit themes using the full site editor
4. Authors
5. Anyone who can log in to the site

Answer: 3. Correct answer

# Additional Resources

To be filled

# Example Lesson

# Locking blocks in the full site editor

One of the things that I find missing from WordPress is to give theme developers the ability to control what we can and cannot do in the full site editor.

In 6.0, we get a first set of locking features. We can lock individual block and prevent them from being moved or being deleted.

## Why do we need to lock blocks?

There are a few cases where locking blocks is useful.

- We want to keep pieces of content together (movement)
- We need a disclaimer or copyright notice to always be available where we placed it (removal)
- We would like to prevent authors from moving the content of a group individually but only move the group as a unit (both)

## Preparing the content

To start we need to create a few blocks in the template editor in order to have material to work with.

Go into the site editor by clicking the editor (beta) link under the appearance menu

Location of
the full site
editor in
the
Appearance
menu

Under the blog header, create a group block. You can click on the block inserter and then search for `group` and then click on the `group` block to insert it into the current template.

Block
inserter
searching
for a
block
and
preview
of group
block

Add two paragraph blocks inside the group block. These are the blocks that we'll be working with in the rest of the lesson.

# Locking movement

AS we discussed earlier there might be times when we want to prevent authors from moving blocks individually.

As an example we'll be locking the first paragraph inside the group block we created earlier.

In the full site editor, select the first paragraph block inside the group block and select the options menu on the far right side.

Options
menu for
paragraph
block
showing
the Lock
option,
fifth
options
from the
bottom,
highlighted
in blue text

You will then be presented with a modal dialogue to select your lock option or options:

Block
locking
modal
dialogue
for
paragraph
block
with no
options
selected

Click the checkbox next to `Disable movement` and click apply.

No one without the required permissions will be able to move the block.

# Locking removal

The other type of locking that is available is preventing removal blocks. This is useful when you want to keep a block in the template but you don't want it to be removed.

In the full site editor, select the second paragraph block inside the group block and select the options menu on the far right side.

When you click the options menu and select the lock menu item, you will presented with the lock dialogue for the paragraph block.

In this case select the checkbox next to the `Prevent removal` option and then click `Apply`.

Block
locking
modal
dialogue
for
paragraph
block
with no
options
selected

This indicates that we would want other theme developers not to remove the block.

# Locking both

The final locking strategy is to restrict both moving and removal of the target blocks.

There are two ways to lock both options.

The first one is to select the checkboxes next to both options and click `Apply`.

The second option is to click the `Lock all` option and then click `Apply`.

Block
locking
modal
dialogue
for
paragraph
block
with no
options
selected

# Test the locked blocks

We've covered how to lock block to preveent removal, movement and both of them together.

Now we need to test if the locks we put on the blocks are working.

## Testing movement lock

Go to the theme editor and click on the first paragraph inside the group block we created.

The quickest way to check if we can move a block is to check whether the `lock` icon is visible. If it is visible then the block is locked. We can check what lock was applied by clicking on the lock; this will display the lock dialogue.
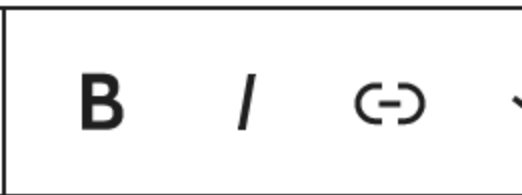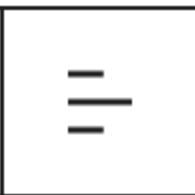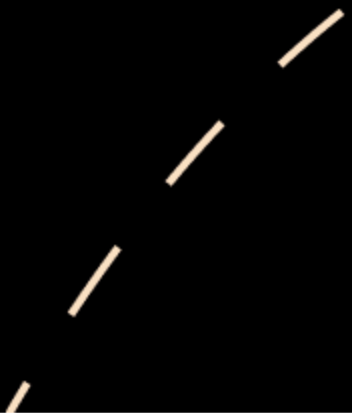
The
blue
lock
icon
shows
that
there is
a lock
applied
to the
block

When a block is not locked you will see the drag handle and the arrows to move the block up and down

Unloocked
blocks
show the
drag
handle and
movement
arrows

## Testing Removal lock

Testing the `prevent removal` lock is a little more complicated. There is no visible change in the block configuration strip. The way to test if we've successfully locked the block is to check if the remove block (`remove paragraph` for our example) is available in the options menu

We need to be extremely careful when we check the lock status of the blocks. We can check if the locks we set are enabled but, at the same time, can disable any locks set up for a given block

## Lesson Wrap Up

And this is the wrap-up of the lesson. We've looked at the different ways to lock blocks and how to tese if the locks are working.

Follow with the Exercises and Assessment outlined above.