

Tokenized CSS & DRY Development Principles

Consider a situation like site-wide border-radius across all elements:



I am a button

I am a button

I am a button

I am a button

Card

Card

Card

Card



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Variables & DRY Development x +

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Div

.feature-card x 1

CONTENT STYLE

LAYOUT

TYPOGRAPHY

BACKGROUND

BORDER / BOX SHADOW

Border

Box shadow

GRADIENT / OVERLAY

SHAPE DIVIDERS

TRANSFORM

CSS

ATTRIBUTES

CSS Variables (aka Custom Properties)

Heading

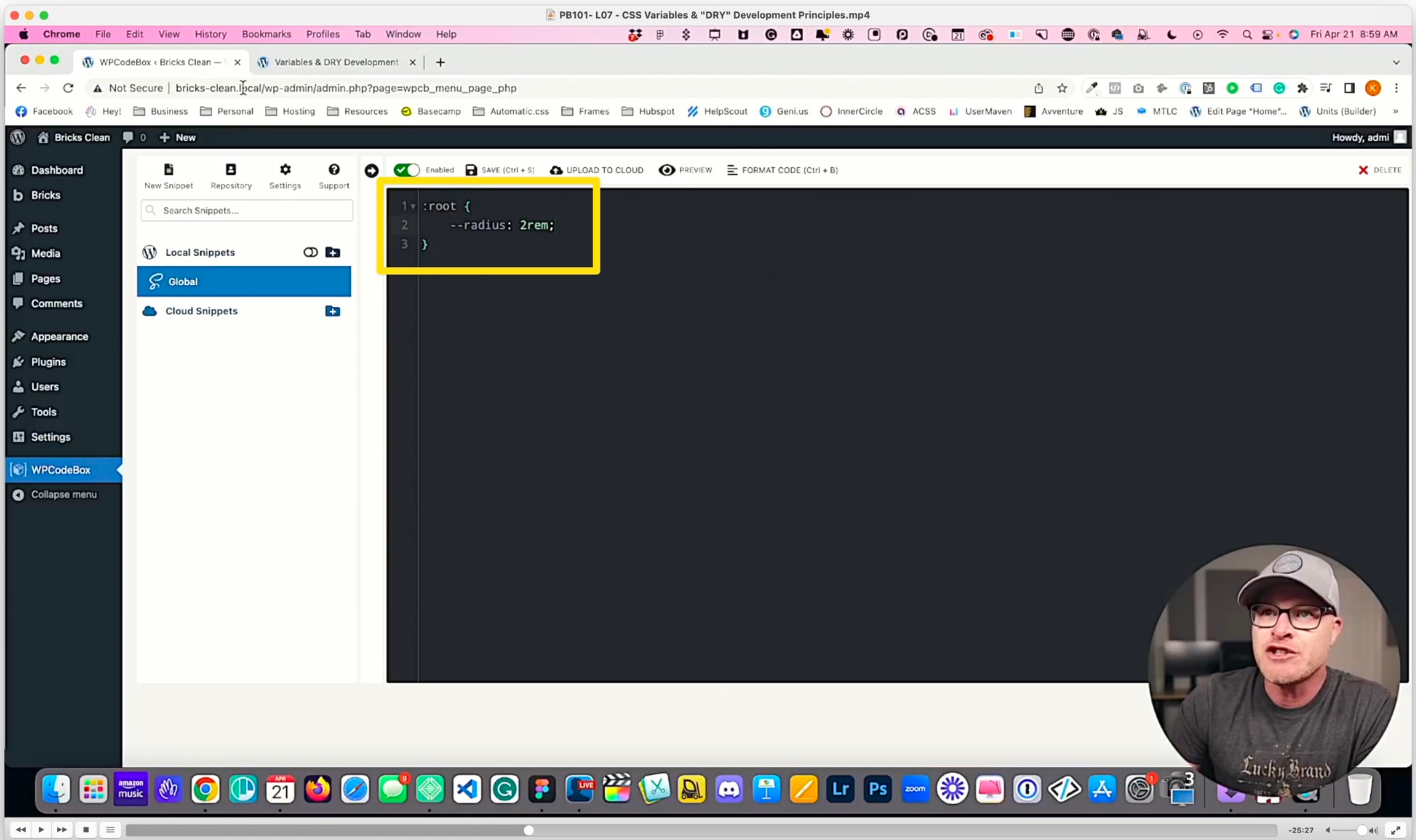
- Allow us to assign values to "placeholders."
- Can be named whatever we want (more or less).
- Increase scalability and maintainability because they give you a single source of truth for a re-usable value.
- Can be used in math functions.
- Can reference other variables.
- There are **globally-scoped** variables and **locally-scoped** variables. I'm going to show you globally scoped variables and we'll cover locally scoped variables later in the course.
- **Many page builders don't allow you to use variables.**
- Even if a page builder lets you use variables, they don't make it easy to create them. The good news is, we don't need the builder for this!

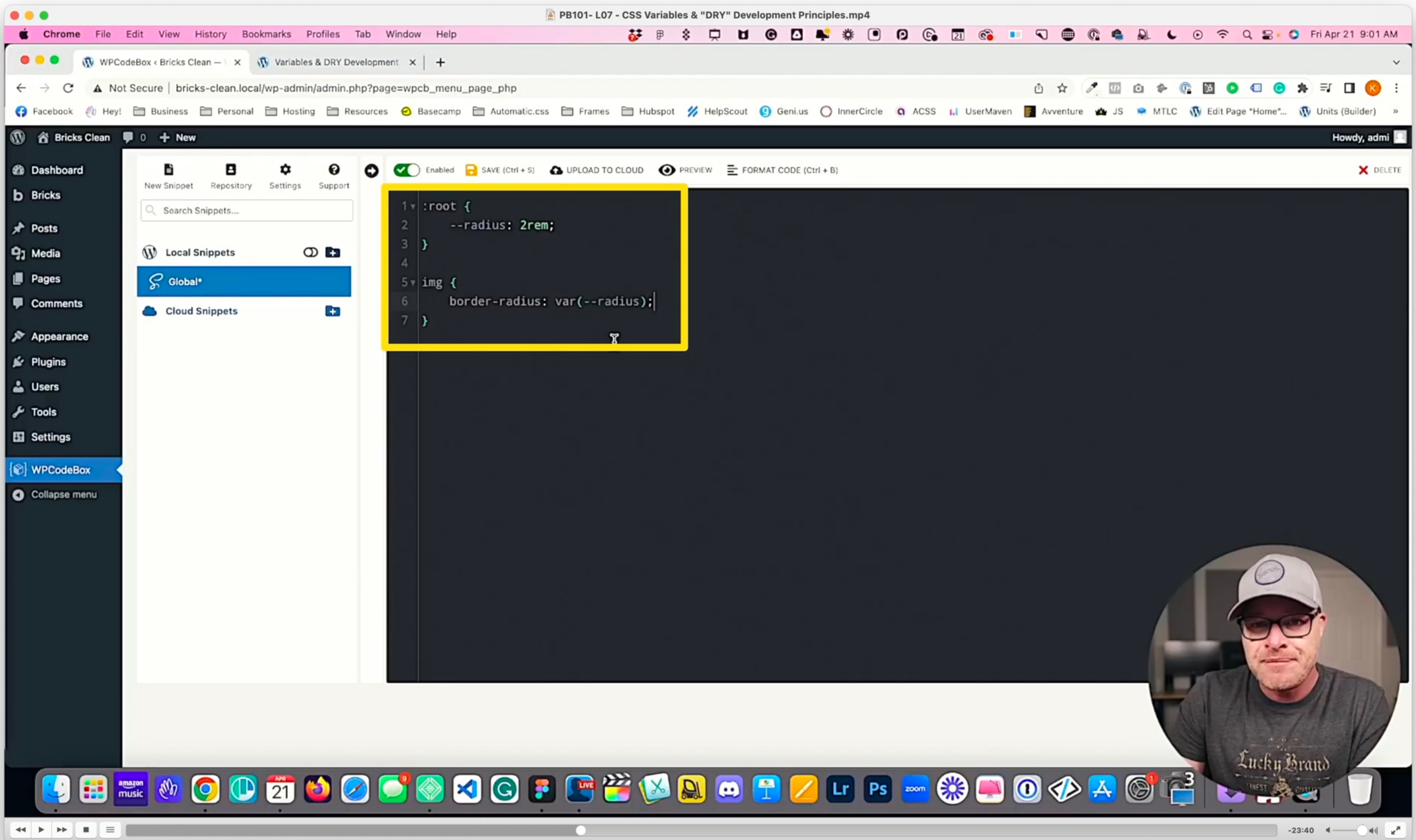
Structure

- Image
- Image
- Image
- Container
 - Button
 - Button
 - Button
 - Button
- Container
 - Div
 - Heading
 - Div
 - Div

a.k.a. 'Tokens'









Tokenized CSS & DRY Development Principles

Consider a situation like site-wide border-radius across all elements:



I am a button

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Card

Card

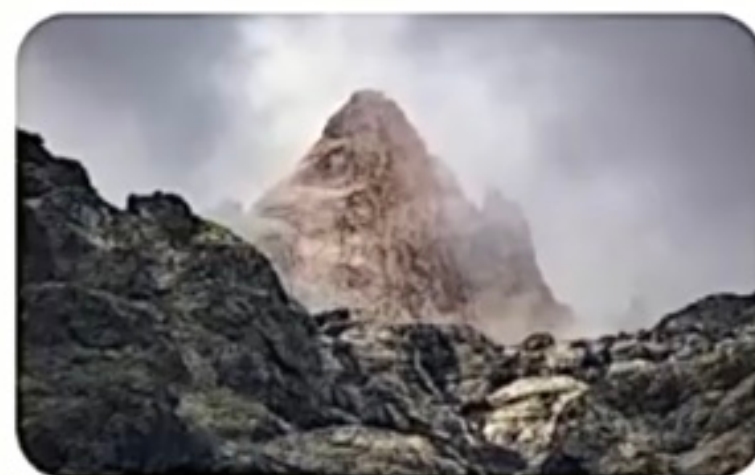
Card

Card



Div

LAYOUT >



I am a button

Card

Width

TOP RIGHT BOTTOM LEFT

Style

Default

Color

- Radius

TOP LEFT

TOP RIGHT

```
var(--radius)
```

```
var(--radius)
```

```
var(--radius)
```

var(--radius)

BOTTOM LEFT

BOTTOM RIGHT

Structure

 Image Image Image

Container

☐ Button☐ Button☐ Button☐ Button

Container

Div

T Heading

Div

Div



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```
1 :root {
2   --radius: 1rem;
3 }
4
5 img {
6   border-radius: var(--radius);
7 }
```

Now we change the token



All elements change

Consider a situation like site-wide border-radius across all elements.



I am a button

Card



Chrome

File

Edit

View

History

Bookmarks

Profiles

Tab

Window

Help

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Section

#brxe-ijagoj

CONTENT

STYLE

LAYOUT

TYPOGRAPHY

BACKGROUND

BORDER / BOX SHADOW

Border

Box shadow

GRADIENT / OVERLAY

SHAPE DIVIDERS

TRANSFORM

CSS

ATTRIBUTES

Structure

Section

Container

Heading

Basic Text

Container

Image

Image

Image

Image

Container

Button

Button

Button

• Many page builders don't allow you to use variables.

• Even if a page builder lets you use variables, they don't make it easy to create them. The good news is, we don't need the builder for this!

Once you've created a variable, commit to it.

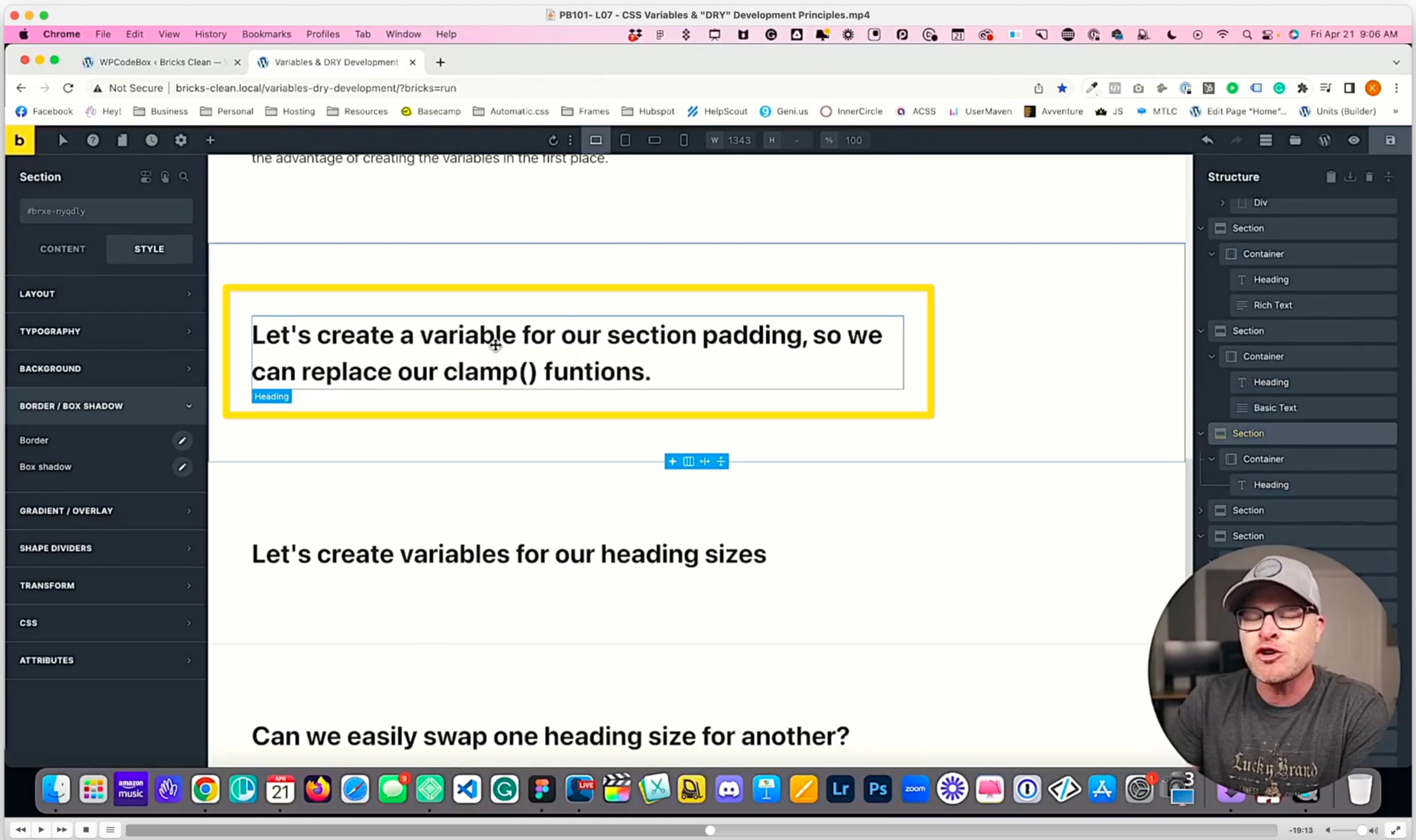
If you use that variable in some places and not others, you're creating disconnections. This destroys the advantage of creating the variables in the first place.

Section

Let's create a variable for our section padding, so we can replace our clamp() funtions.

Lucky Brand





Link

CSS Fluid Responsive Clamp Calculator

This handy calculator generates clamp() functions for fluid responsive web development. Bookmark it, because you may need to use it over and over again.

Or, use the [Automatic.css framework](#) to make your entire website automatically responsive.

Viewport

Root Font Size

☐ 100% ☒ 62.5%

Min Device Size (Mobile)

320

px

Max Device Size

1366

px

Desired Values

Minimum Value

rem

Maximum Value

rem

Your clamp() function

```
clamp(0rem, calc(0vw + 0rem), 0rem)
```



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```
1 :root {
2   --radius: 1rem; /* Border radius for all elements */
3   --
4 }
5
6 img {
7   border-radius: var(--radius);
8 }
```

This is one style of CSS comment and it will be visible in the output of the style sheet



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```
1 :root {
2   --radius: 1rem; // Border radius for all elements
3   --
4 }
5
6 img {
7   border-radius: var(--radius);
8 }
```

This is another style of CSS (SCSS or Sass) comment and it will not be visible in the output of the style sheet



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clamp(2.4rem, calc(2.4rem + ((1vw - 0.32rem) * 3.4417)), 6rem)

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```
1 :root {
2   --radius: 1rem; // Border radius for all elements
3   --section-block-padding: clamp(5rem, calc(5rem + ((1vw - 0.32rem) * 4.7801)), 10rem);
4   --section-inline-padding: clamp(2.4rem, calc(2.4rem + ((1vw - 0.32rem) * 3.4417)), 6rem);
5 }
6
7 img {
8   border-radius: var(--radius);
9 }
```



Chrome

File

Edit

View

History

Bookmarks

Profiles

Tab

Window

Help

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ACSS

UserMaven

Avventure

JS

MTLC

Edit Page "Home"...

Units (Builder)

Width

100%

Min. width

Max. width

Column gap

Row gap

Margin

Padding

var(--section-bl

var(--t

var(--t

var(--section-bl

ELEMENT - CONTAINER

ELEMENT - BLOCK

ELEMENT - DIV

ELEMENT - ACCORDION

ELEMENT - ALERT

ELEMENT - BUTTON

ELEMENT - CAROUSEL

the advantage of creating the variables in the first place.

Let's create a variable for our section padding, so we can replace our clamp() funtions.

Let's create variables for our heading sizes

Can we easily swap one heading size for another?

Structure

Div

Section

Container

Heading

Rich Text

Section

Container

Heading

Basic Text

Section

Container

Heading

Section

Section

+

+

+

+

W 1343

H -

% 100

Apple

Google

Amazon music

Spotify

Calendar

21

Firefox

Chrome

VS Code

Discord

Zoom

Photoshop

Lr

Ps

zoom

App Store

System

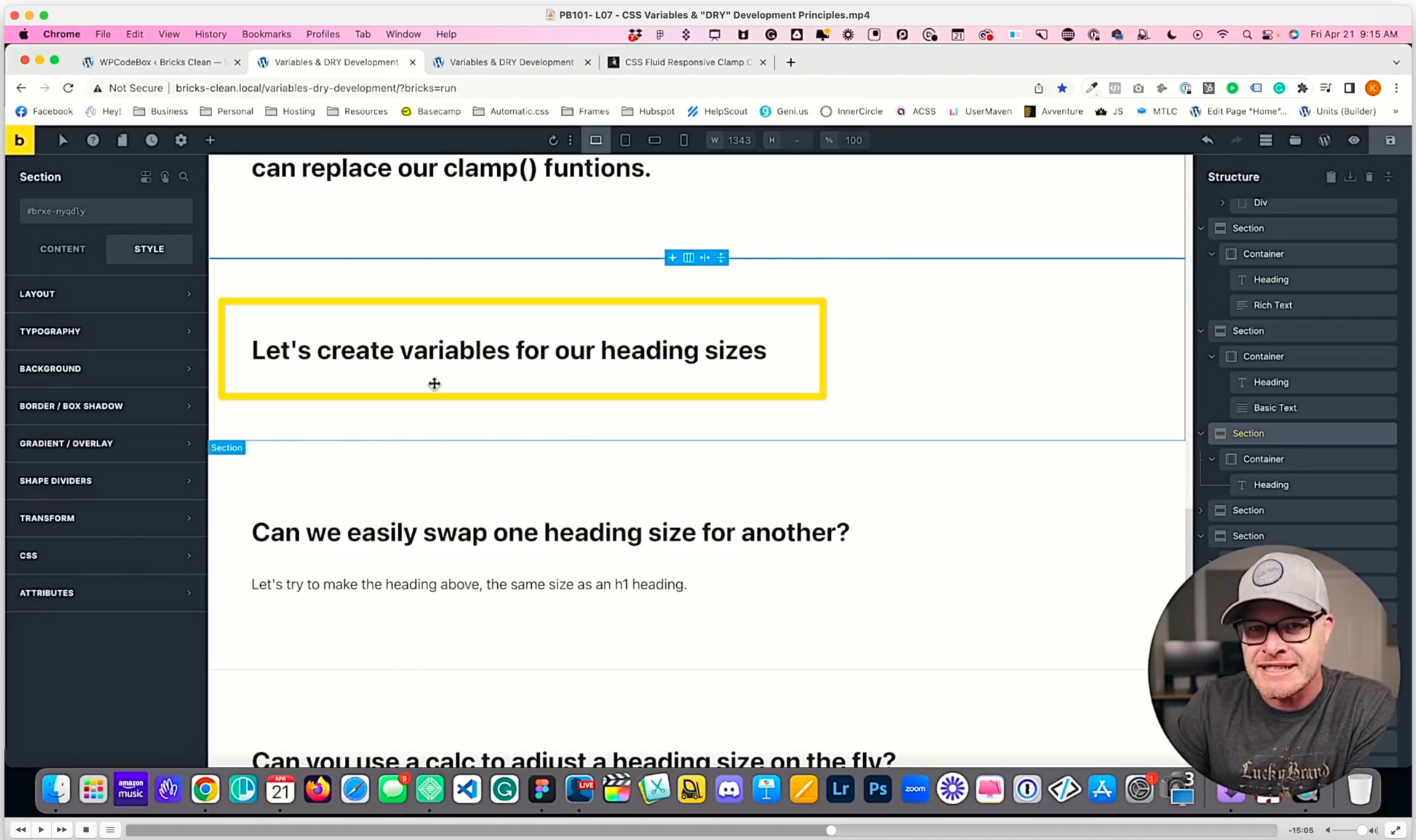
3

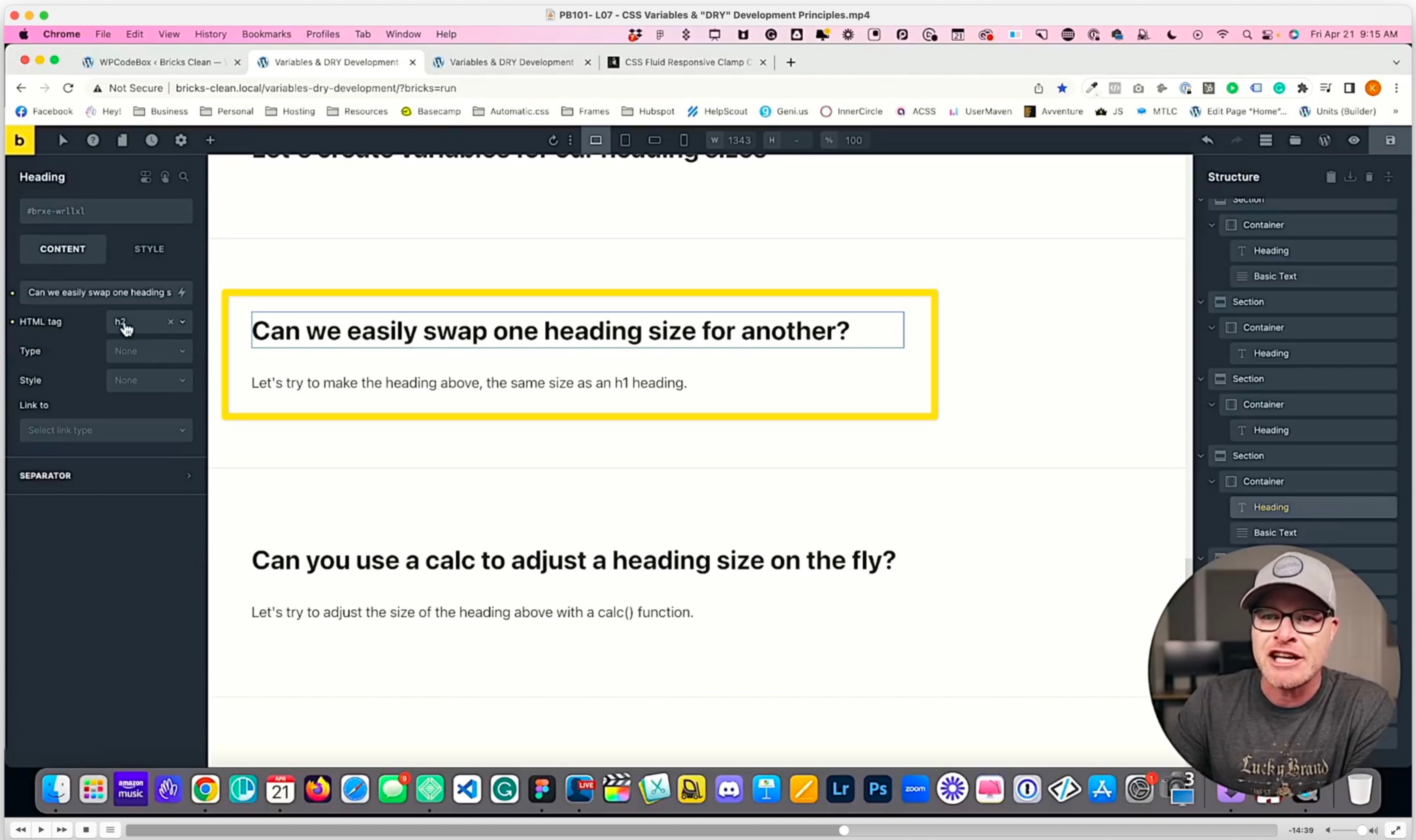
Trash

15:59

Speaker







Chrome

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b

W 1343 H - % 100

Heading

#brxe-wrllxl

CONTENT

STYLE

LAYOUT

• TYPOGRAPHY

Color

• Font size

var(--h1)

• Text align

Text transform

Font family

700

Font style

font-variation-settings

Line height

Letter spacing

Text shadow

Text decoration

Can we easily swap one heading size for another?

Let's try to make the heading above, the same size as an h1 heading.

Can you use a calc to adjust a heading size on the fly?

Let's try to adjust the size of the heading above with a calc() function.

Can we use variables in the overlapping div scenario

Structure

Section

Container

Heading

Basic Text

Section

Container

Heading

Section

Container

Heading

Section

Container

Heading

Basic Text

amazon music

chrome

calendar

21

firefox

safari

messages

vs code

globe

live

clips

scissors

forklift

discord

presentation

notepad

Lr

Ps

zoom

gear

monitor

info

code

App Store

camera

3

trash

11:48

volume

network



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clamp(2.4rem, calc(2.4rem + ((1vw - 0.32rem) * 3.4417)), 6rem)

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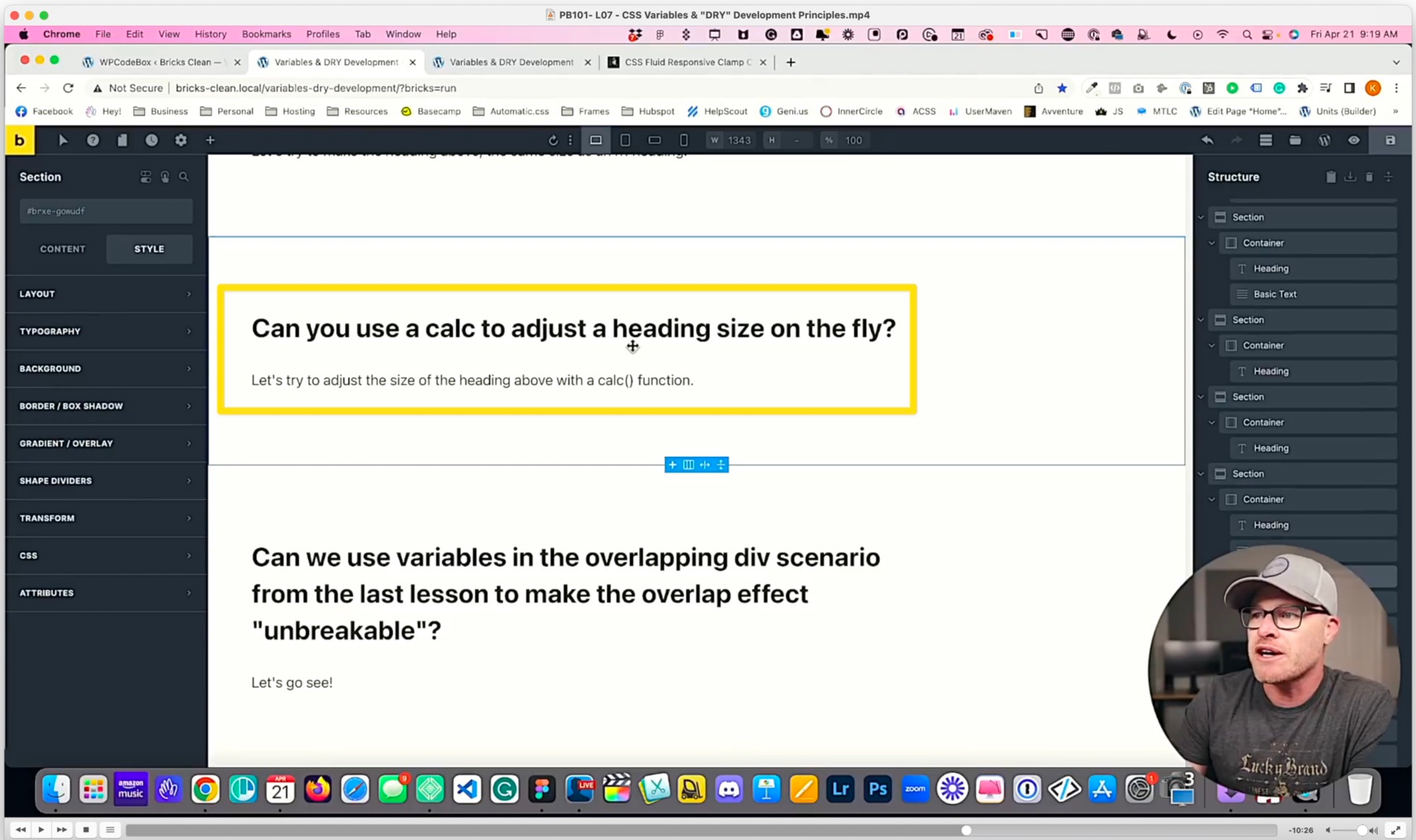
```
1 :root {
2   --radius: 1rem; // Border radius for all elements
3   --section-block-padding: clamp(5rem, calc(5rem + ((1vw - 0.32rem) * 4.7801)), 10rem);
4   --section-inline-padding: clamp(2.4rem, calc(2.4rem + ((1vw - 0.32rem) * 3.4417)), 6rem);
5   --h1: clamp(2.88rem, calc(1.377vw + 2.439rem), 4.32rem);
6   --h2: clamp(2.4rem, calc(1.147vw + 2.033rem), 3.6rem);
7   --h3: clamp(2rem, calc(0.956vw + 1.694rem), 3rem);
8 }
9
10 img {
11   border-radius: var(--radius);
12 }
```



Margin

Let's go see!





Can you use a calc to adjust a heading size on the fly?

Let's try to adjust the size of the heading above with a `calc()` function.

```
calc(var(--h2) * 1.1)
```

Can we use variables in the overlapping div scenario from the last lesson to make the overlap effect "unbreakable"?

Let's go see!



Heading

CONTENT

STYLE

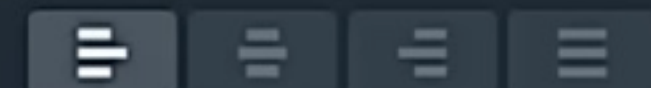
LAYOUT >

- **TYPOGRAPHY**

Color

Font size

- Text align



Text transform

Line height

Letter spacing

Text shadow

Text decoration

Can you use a calc to adjust a heading size on the fly?

Let's try to adjust the size of the heading above with a `calc()` function.

Can we use variables in the overlapping div scenario from the last lesson to make the overlap effect "unbreakable"?

Let's go see!

Structure

SECTION

Container

T Heading

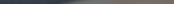
Basic Text

Section

Container

T Heading

Section



Section

#brxe-svezkh

CONTENTSTYLE

LAYOUT

SPACING

Margin

Padding

padding-bottom

59.20{10rem) + 8{em)

SIZING

Width

Min. width

Max. width

Height

Min. height

Max. height

Hero heading

This is just placeholder text. Don't be alarmed, this is just here to fill up space since your finalized copy isn't ready yet. Once we have your content finalized, we'll replace this placeholder.

I am a button



Structure

Section

Section

Container

I am a heading

This is just placeholder text. Don't be alarmed, this is just here to fill up space since your finalized copy isn't ready yet.

I am a button

This function is in danger to break in certain situations because it's not tokenized

I am a heading

This is just placeholder text. Don't be alarmed, this is just here to fill up space since your finalized copy isn't ready yet.

I am a button

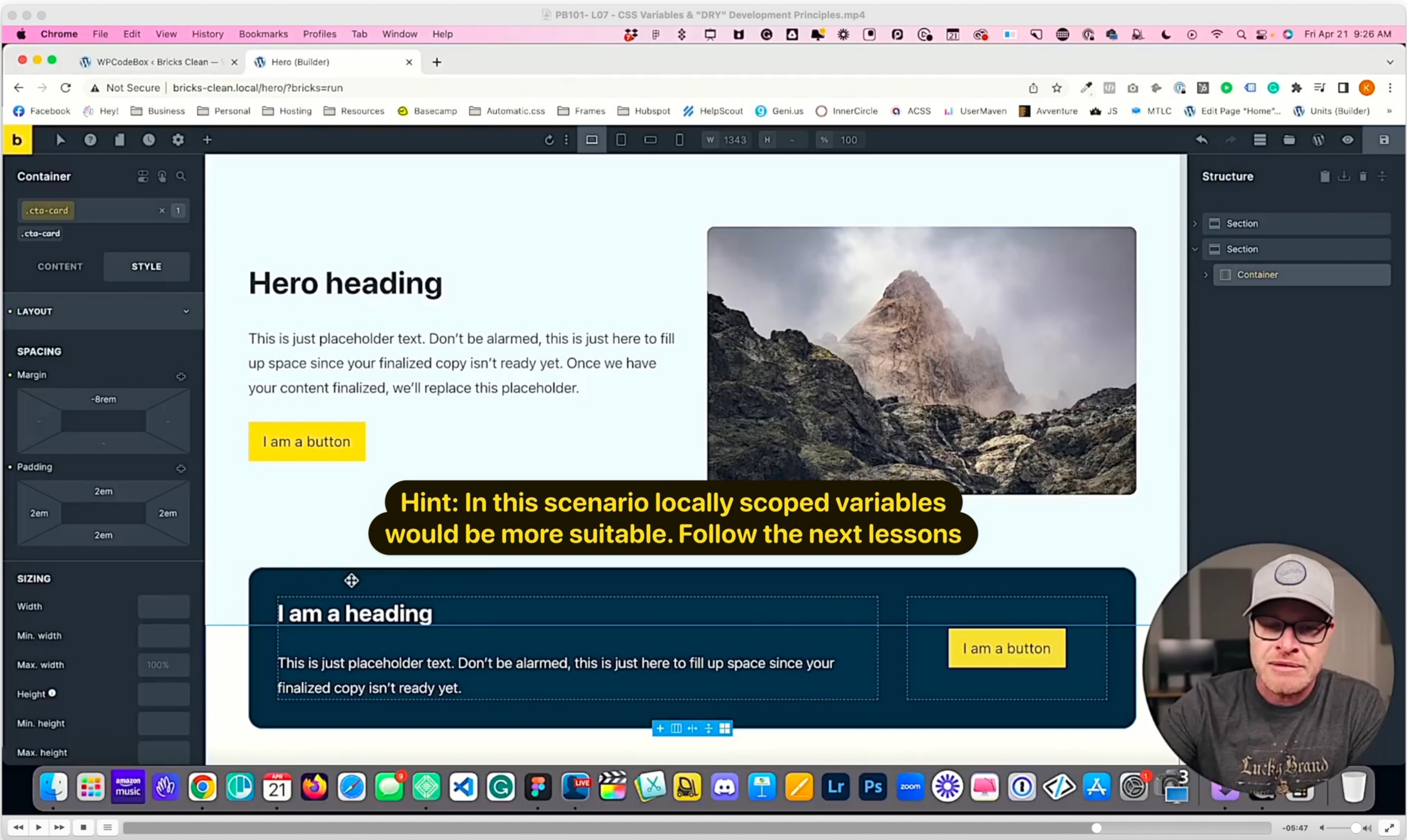
Lucky Brand

This function is in danger to break in certain situations because it's not tokenized

I am a heading

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clamp(2.4rem, calc(2.4rem + ((1vw - 0.32rem) * 3.4417)), 6rem)

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```
1 :root {
2   --radius: 1rem; // Border radius for all elements
3   --section-block-padding: clamp(5rem, calc(5rem + ((1vw - 0.32rem) * 4.7801)), 10rem);
4   --section-inline-padding: clamp(2.4rem, calc(2.4rem + ((1vw - 0.32rem) * 3.4417)), 6rem);
5   --h1: clamp(2.88rem, calc(1.377vw + 2.439rem), 4.32rem);
6   --h2: clamp(2.4rem, calc(1.147vw + 2.033rem), 3.6rem);
7   --h3: clamp(2rem, calc(0.956vw + 1.694rem), 3rem);
8   --cta-card-offset: 10rem;
9 }
10
11 img {
12   border-radius: var(--radius);
13 }
```



