

```
        </div>
    </div>
</div>
<div class="wrap_2stroke">
    <div class="second">
        <div class="second_section">
            <div class="list">
                <h3>October 2021</h3>
                <ul>
                    <li>Week 1</li>
                    <li>Week 2</li>
                    <li>Week 3</li>
                    <li>Week 4</li>
                    <li>Week 5</li>
                    <li>Week 6</li>
                    <li>Week 7</li>
                    <li>Week 8</li>
                    <li>Week 9</li>
                    <li>Week 10</li>
                    <li>Week 11</li>
                    <li>Week 12</li>
                    <li>Week 13</li>
                    <li>Week 14</li>
                    <li>Week 15</li>
                    <li>Week 16</li>
                    <li>Week 17</li>
                    <li>Week 18</li>
                    <li>Week 19</li>
                    <li>Week 20</li>
                    <li>Week 21</li>
                    <li>Week 22</li>
                    <li>Week 23</li>
                    <li>Week 24</li>
                    <li>Week 25</li>
                    <li>Week 26</li>
                    <li>Week 27</li>
                    <li>Week 28</li>
                    <li>Week 29</li>
                    <li>Week 30</li>
                    <li>Week 31</li>
                    <li>Week 32</li>
                    <li>Week 33</li>
                    <li>Week 34</li>
                    <li>Week 35</li>
                    <li>Week 36</li>
                    <li>Week 37</li>
                    <li>Week 38</li>
                    <li>Week 39</li>
                    <li>Week 40</li>
                    <li>Week 41</li>
                    <li>Week 42</li>
                    <li>Week 43</li>
                    <li>Week 44</li>
                    <li>Week 45</li>
                    <li>Week 46</li>
                    <li>Week 47</li>
                    <li>Week 48</li>
                    <li>Week 49</li>
                    <li>Week 50</li>
                    <li>Week 51</li>
                    <li>Week 52</li>
                </ul>
            </div>
        </div>
    </div>
</div>
```

# HTML 201

# Why are we here?



## Who am I?

Software Engineer  
Enid, OK  
The Crossing, EPC



## What is this about?

Using HTML in Rock to extend functionality



## What will you walk away with?

Practical knowledge for solving problems with HTML



# Agenda

1 **Streamline Camp Volunteer Sign-ups**

2 **Create Custom Email Templates**

3 **Weed Out Bot Form Submissions**

— Pro Tips —

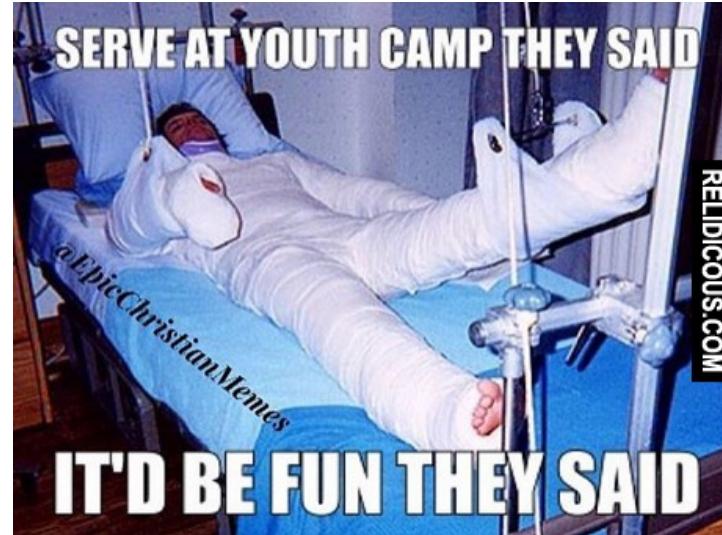
4 **Learn to Use the Developer Console**

5 **Debug Emails and Pages**

# **Streamlining Camp Volunteer Sign-ups**

# Problem: Camp Volunteer Sign-Up Barriers

Processes with delayed steps require more follow up from your volunteers and can create unnecessary barriers



# Solutions: Combine Reference with Registration

1

## Ask Everyone, Not Required

- Who has to manually verify?
- How do we collect that info after the fact?

2

## Ask Everyone, Required

- Wastes time
- Are you contacting people you don't need to?

3

## Conditionally Ask, Required

- No pause in the process
- No manual verification

# Set up the Attribute

- **Person Attribute: Is Staff**

Boolean, default to No, require value (no nulls)

- **Workflow Add to Group > Set Is Staff**

Simple Workflow with a Person attribute that has an action to set their Is Staff attribute value to Yes

- **Workflow Remove from Group > Set Is Staff**

Simple Workflow with a Person attribute that has an action to set their Is Staff attribute value to No

- **Add Group Member Workflows to Group**

# Build the Registration Template

## General Questions

Add whatever info we need for Camp

## Is Staff Attribute

Check Internal Field

Check Use Current Value

## Reference Questions

Add our reference questions and then filter to show only if Is Staff is No

## View Registration Instance

The screenshot shows a configuration interface for an internal field. It includes sections for "Internal Field" (with a checked "Yes" option), "Common Value" (with an unchecked "Yes" option), "Required" (unchecked "Yes"), and "Show on Grid" (unchecked "Yes"). There is also a "Use Current Value" checkbox which is checked.

## Form Field Filter

The screenshot shows a "Form Field Filter" configuration. It includes dropdowns for "Hide" (set to "Reference #1 First Name: if Any of the following match:"), "Has Served in Crossing Students" (set to "Equal To Yes"), "Is Staff" (set to "Equal To Yes"), and a "Add Criteria" button.

The screenshot shows a registration instance form for "My Account Home". It includes fields for Reference #1 First Name, Reference #1 Last Name, Reference #1 Email, Relationship to Reference #1, Reference #2 First Name, Reference #2 Last Name, Reference #2 Email, Relationship to Reference #2, Reference #3 First Name, and Reference #3 Last Name. The "The Crossing" logo is visible at the top right, along with navigation links for I'M NEW, EVENTS, WATCH, LISTEN, READ, ABOUT, MINISTRIES, GIVE, and LIVE. A greeting "Hello Courtney" is also present.

# Make the Attribute Useable in Filters

- **Is Staff Attribute**

Uncheck Internal Field

Yes  No

Is Staff 

No Yes

Previous

- **The Conditions Work**

But users can change the value



# Add HTML to Hide the Attribute

## PRE-HTML

```
<div style="display: none;">
```

## POST-HTML

```
</div>
```

My Account Home

Hello Courtney ▾

Do you attend The Crossing? \*

Yes  No

[Previous](#) [Next](#)

My Account Home

Yes  No

[Login](#)

Reference #1 First Name: *	Reference #1 Last Name: *
<input type="text"/>	<input type="text"/>
Reference #1 Email: *	Relationship to Reference #1: *
<input type="text"/>	<input type="text"/>
Reference #2 First Name: *	Reference #2 Last Name: *
<input type="text"/>	<input type="text"/>
Reference #2 Email: *	Relationship to Reference #2: *
<input type="text"/>	<input type="text"/>
Reference #3 First Name:	Reference #3 Last Name:
<input type="text"/>	<input type="text"/>
Reference #3 Email:	Relationship to Reference #3:
<input type="text"/>	<input type="text"/>

# Create Custom Email Templates

**How to not write them from scratch**

# Create an Email Template without Writing the HTML from Scratch

1

## **Design the communication in wizard**

Let Rock do the hard part

2

## **Pull the HTML for the communication**

Pick Your Poison: Lava, SQL, Dev Console

3

## **Save the template**

# Get the HTML Content of an Email with Lava

Find the Id of the communication from the url

urch.com/Communication?CommunicationId=457942#&&La

Using Lava Tester or an HTML block with RockEntity enabled

```
{% communication id:'457942' %}  
  {{communication.Message | Escape}}  
{% endcommunication %}
```

## Output

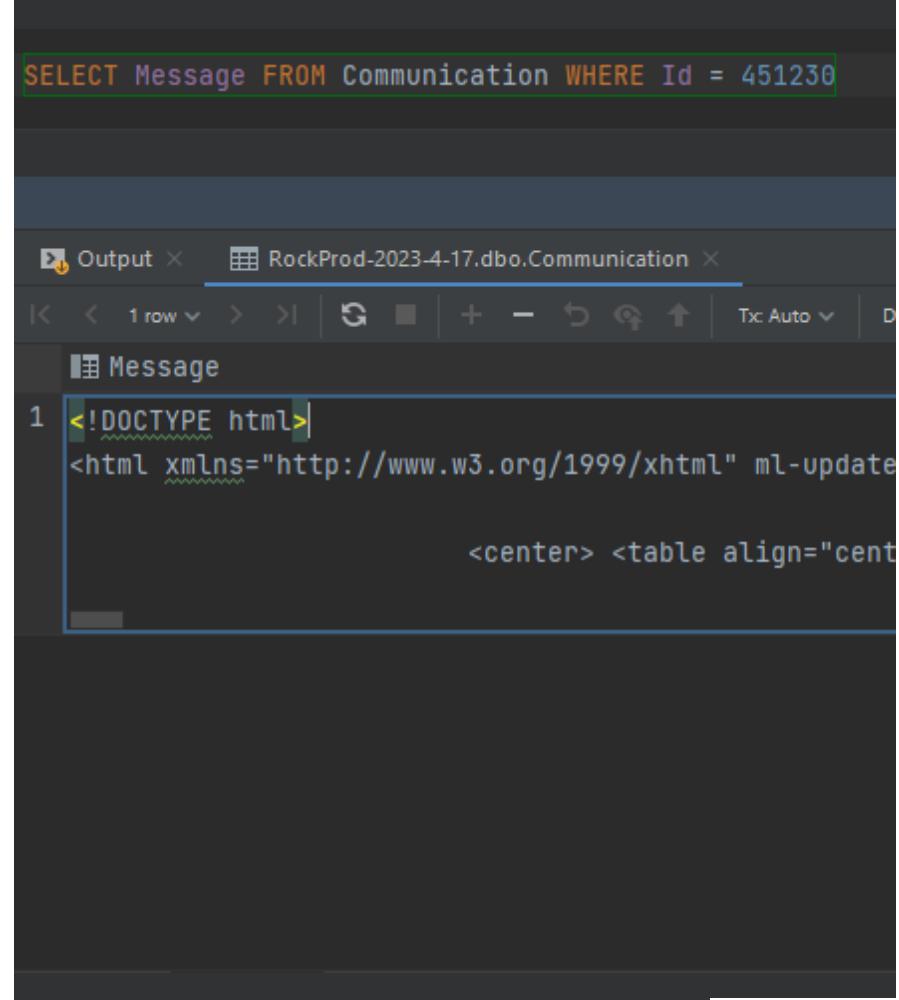
```
<!DOCTYPE html> <html xmlns="http://www.w3.org/1999/xhtml" ml-update="aware"><head> <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" /> </head> <body> <div>This is the raw HTML content of the email message. It includes all styling and structure, such as tables, images, and links, as they appear in the original communication. You can copy and paste this code into your own system to use it in your application or for further processing.</div> </body> </html>
```

# Get the HTML Content of an Email with SQL

```
SELECT Message FROM Communication WHERE Id =  
457942
```

We can use the same method with Lava Tester/HTML Block with SQL enabled or run the query in our favorite app

```
{% sql %}  
  SELECT Message FROM Communication WHERE Id = 457942  
{% endsql %}  
{{ results[0].Message | Escape }}
```



The screenshot shows a database query result in a software interface. The query is:

```
SELECT Message FROM Communication WHERE Id = 451230
```

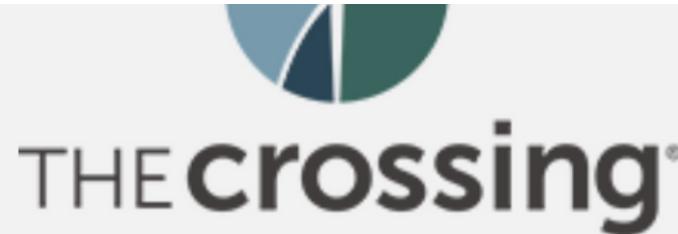
The result set contains one row, labeled "Message". The content of the row is:

```
<!DOCTYPE html>  
<html xmlns="http://www.w3.org/1999/xhtml" ml-update="true">  
  <head>  
    <title>RockProd</title>  
  </head>  
  <body>  
    <center> <table align="center" border="1">
```

# Weed Out Bot Form Submissions

# The Email Form Block Does Not Weed Out Bot Submissions

Our staff received 875 bot submissions in one month



A contact request has been submitted. Please find the information below:

**First Name:** Crytojuine

**Last Name:** Crytojuine

**Email:** [salvimirris1229@hotmail.com](mailto:salvimirris1229@hotmail.com)

**Phone:** 89033057083

**Message:** The financial Robot works for you even when you sleep. <https://ret.qbe-medienhaus.de/ret>

# Create a Honeypot

Unlike a human who will only fill out the visible portions of your form, a bot is looking at the HTML for all input fields before programmatically hitting submit on the form

Email



Phone Number



Your Message



```
<div style="visibility: hidden; height: 0px;">
```

Honey Pot



```
</div>
```

# Hide Honeypot Fields

- **display: none;**

Stops the element from being rendered on the page

Many bots recognize this css property and know not to supply input for elements with it

- **visibility: hidden;**

Renders the element and then makes it invisible

- **overflow: hidden;**

Hides anything outside the set height

- **margin-left: -9000px;**

Moves the element offscreen

# Filter Workflow Actions on Honeypot Value

Continue if Human

Run If i

Honey Pot Is Blank

Name •

Continue if Human

Action is Completed on Success  
 Activity is Completed on Success

Action Type

Activate Activity Overview

Activates a new activity instance and all of its actions.

Activity i •

Send Email

MADE WITH  beautiful.ai

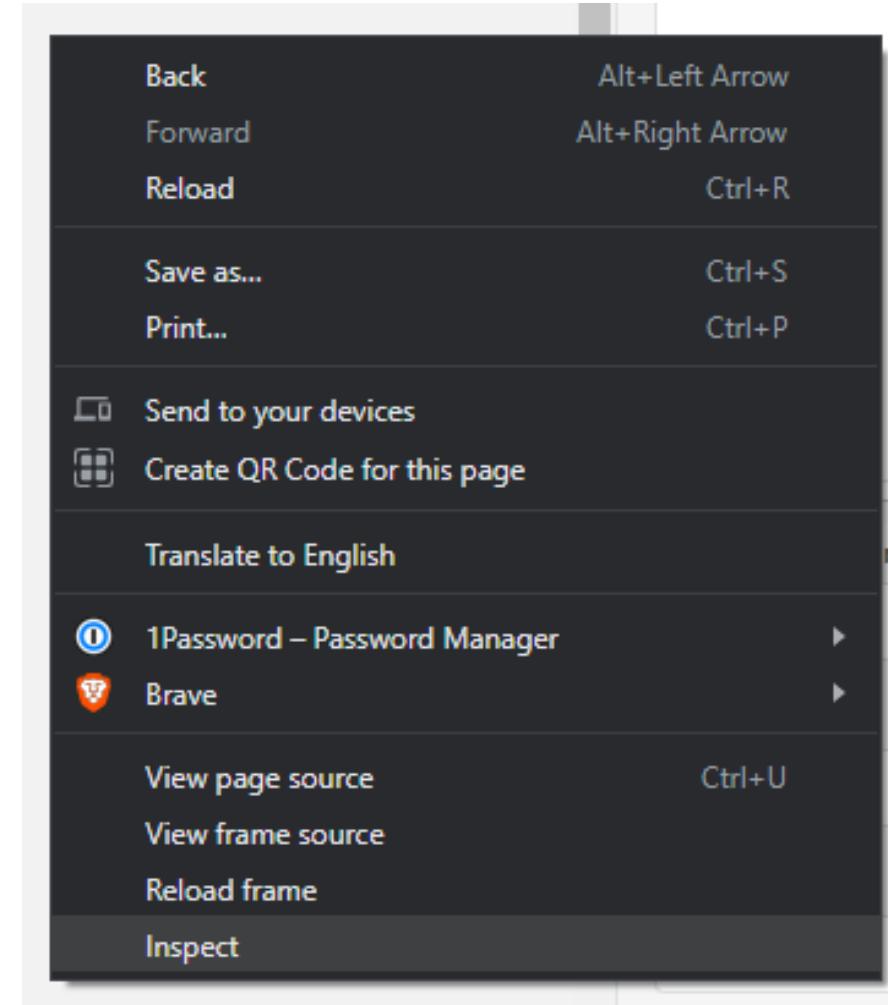
# Learn to Use the Developer Console

# Open the Developer Console

What if we want to copy a layout without the main header and footer?

Right Click anywhere on page.

Select "Inspect"



# These are the Main Components of the Developer Console



## Element Selector

Allows you to select an HTML element on the page and see the HTML/CSS for it.

```
</body></html>">
  <!DOCTYPE html>
  <html xmlns="http://www.w3.org/1999/xhtml" ml-update="aware">
    <head>...</head>
    <body leftmargin="0" marginwidth="0" topmargin="0" marginheight="0" offset
```



## Toggle Device

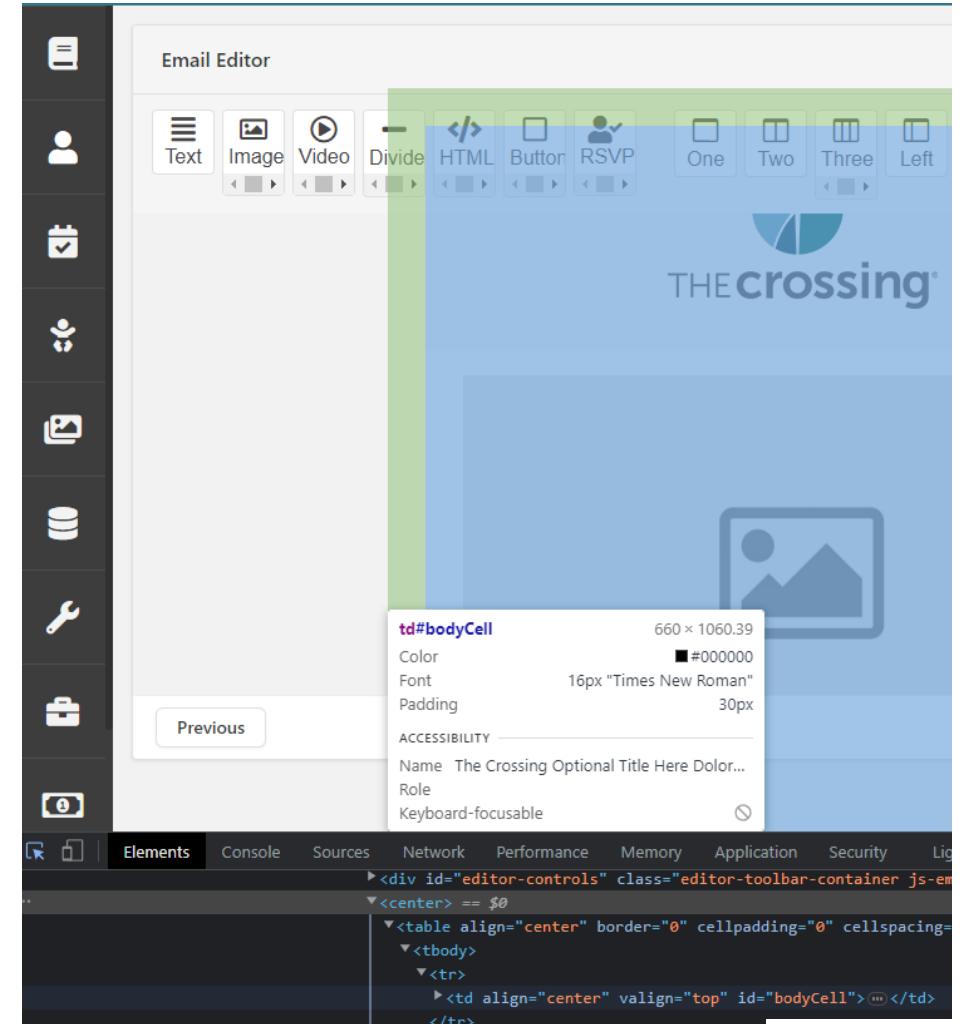
Allows you to view the page on different types of screens (Laptop, Phone, Tablet)



## Tabs We Don't Care About

# Get the HTML Content of an Email from the Dev Console

Using the Element Selector we're going to click on the body of our email with our desired layout.



MADE WITH

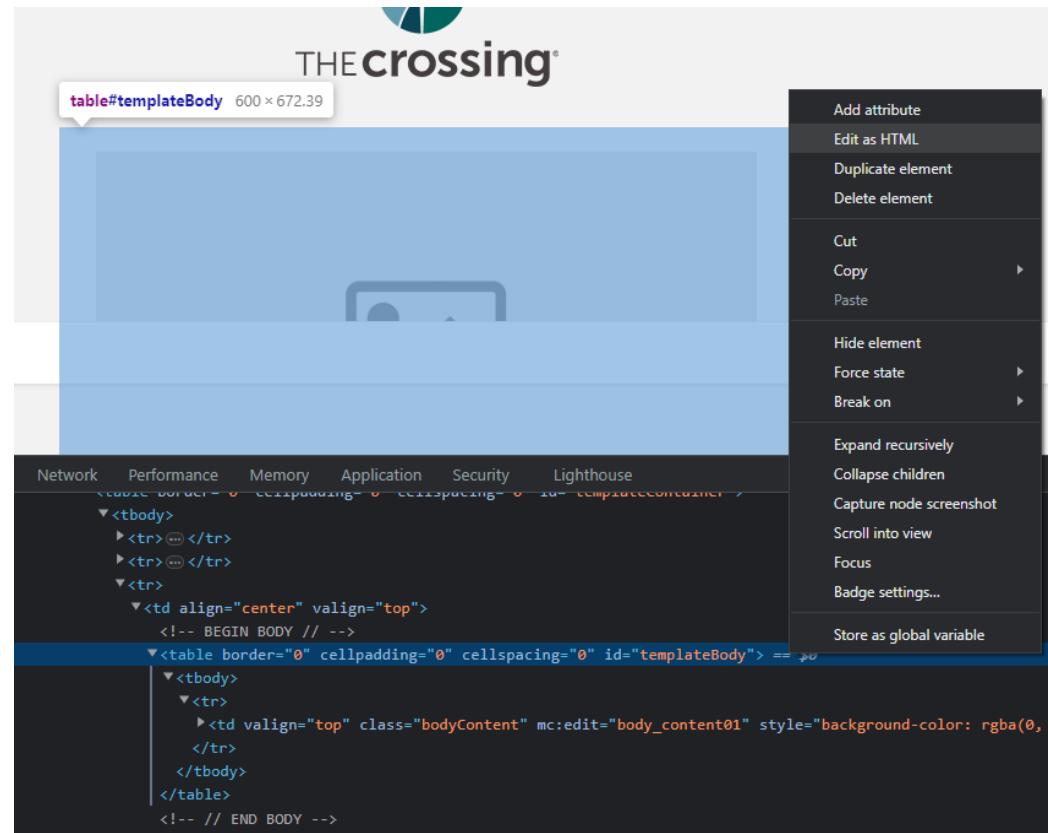
**beautiful.ai**

# The Developer Console Will Highlight the Corresponding HTML

```
<!-- BEGIN BODY // -->
▼<table border="0" cellpadding="0" cellspacing="0" id="templateBody">
  ▼<tbody>
    ▼<tr>
      ▶<td valign="top" class="bodyContent" mc:edit="body_content01" style="background-color: rgba(0, 0, 0, 0);>...</td> == $0
    </tr>
  </tbody>
</table>
<!-- // END BODY -->
```

# Find the Parent Element

Look for the parent <table> element. Right Click > Edit as HTML



# The Dev Console Can Be Used to Preview CSS Changes

Instead of editing, saving, and refreshing, we can preview tweaks to CSS in our browser, then copy them into the block and save once

## Why Cats Are The Worst

Do we need to explain?

[Download Discussion Guide](#)

The screenshot shows the Chrome DevTools interface. The top navigation bar has tabs for Elements, Console, Sources, Network, Performance, Memory, Application, Security, and Lighthouse. The Elements tab is active, showing the DOM structure of a page. The page content includes a header, an image, a main heading with a grey color style applied via the devtools console, a explanatory paragraph, and a download link. The right side of the interface features the Styles panel, which displays the CSS rules for the selected element. A specific rule for the heading is highlighted, showing a checked checkbox next to the 'color' declaration, indicating it's a live edit made through the developer tools.

```
<div>
  <img>
  <h2 style="color: grey;">Why Cats Are The Worst</h2> == $0
  <p> Do we need to explain? </p>
  <a href="#">Download Discussion Guide</a>
</div>
```

element.style {  
 color: grey;  
}

# **When Emails and Pages Don't Look the Way They Should**



## Registration Confirmation: Kids Club - KIDS 2023

The following child has been added to the **wait list** for Kids Club - KIDS 2023:

- Courtney Cooksey

**Kids Club is June 5-8, 5:30-8:30 p.m.**

Thank you for registering for **Kids Club 2023**. You will receive a reminder email the week before with more information.

### • Courtney Cooksey

**Kids Club is June 5-8, 5:30-8:30 p.m.**

Thank you for registering for **Kids Club 2023**. You will receive a reminder email the week before with more information.

Each night, parents and caregivers will receive a text with a link to a short, nightly recap video to watch with their



## Registration Confirmation: Kids Club - KIDS 2023

The following child has been added to the **wait list** for Kids Club - KIDS 2023:

- Courtney Cooksey

**Kids Club is June 5-8, 5:30-8:30 p.m.**

Thank you for registering for **Kids Club 2023**. You will receive a reminder

### • Courtney Cooksey

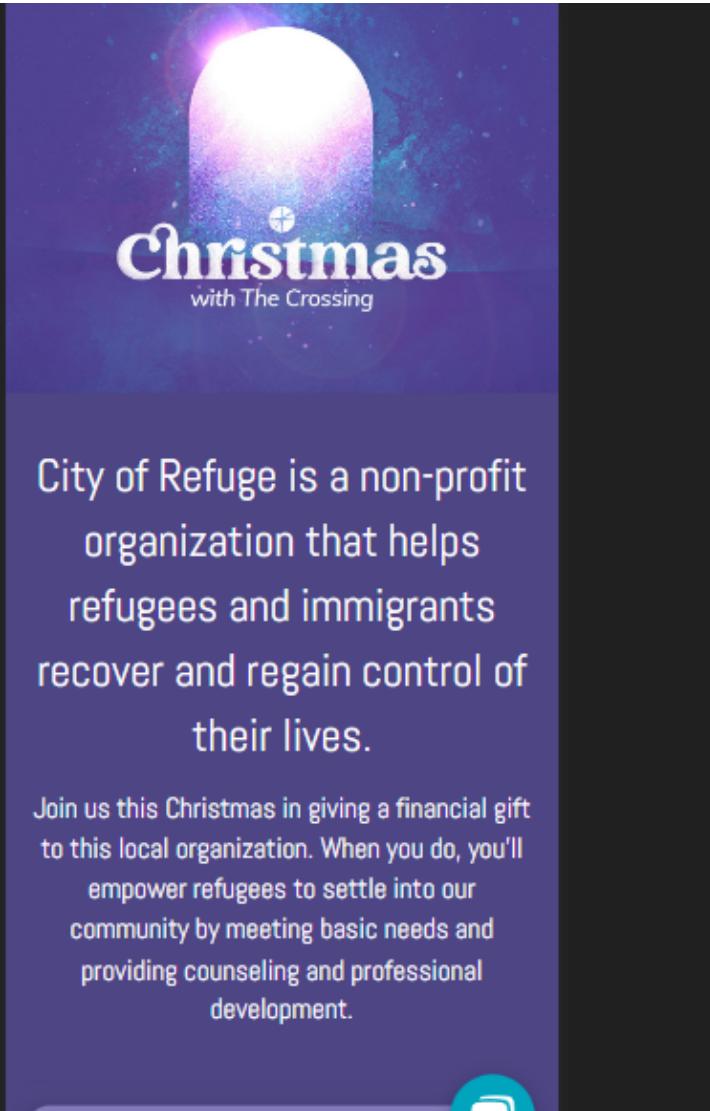
**Kids Club is June 5-8, 5:30-8:30 p.m.**

June 5-8  
Thank you  
**2023**. You  
the week

Create Event

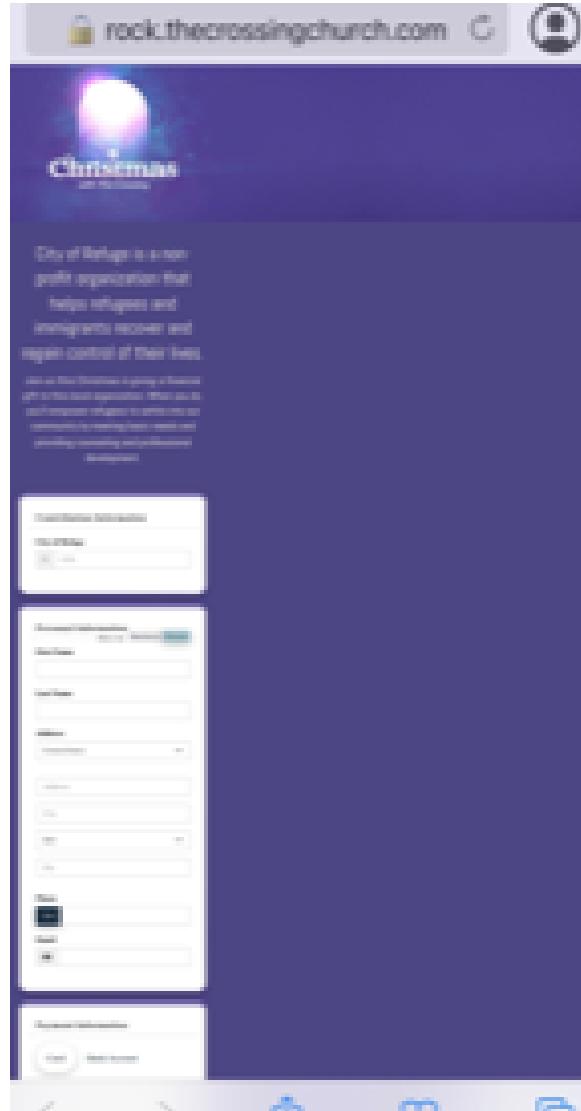
Each night  
receive a  
nightly rec  
Create Reminder   
Show in Calendar

# Browser Plugins Can Overwrite CSS Rules



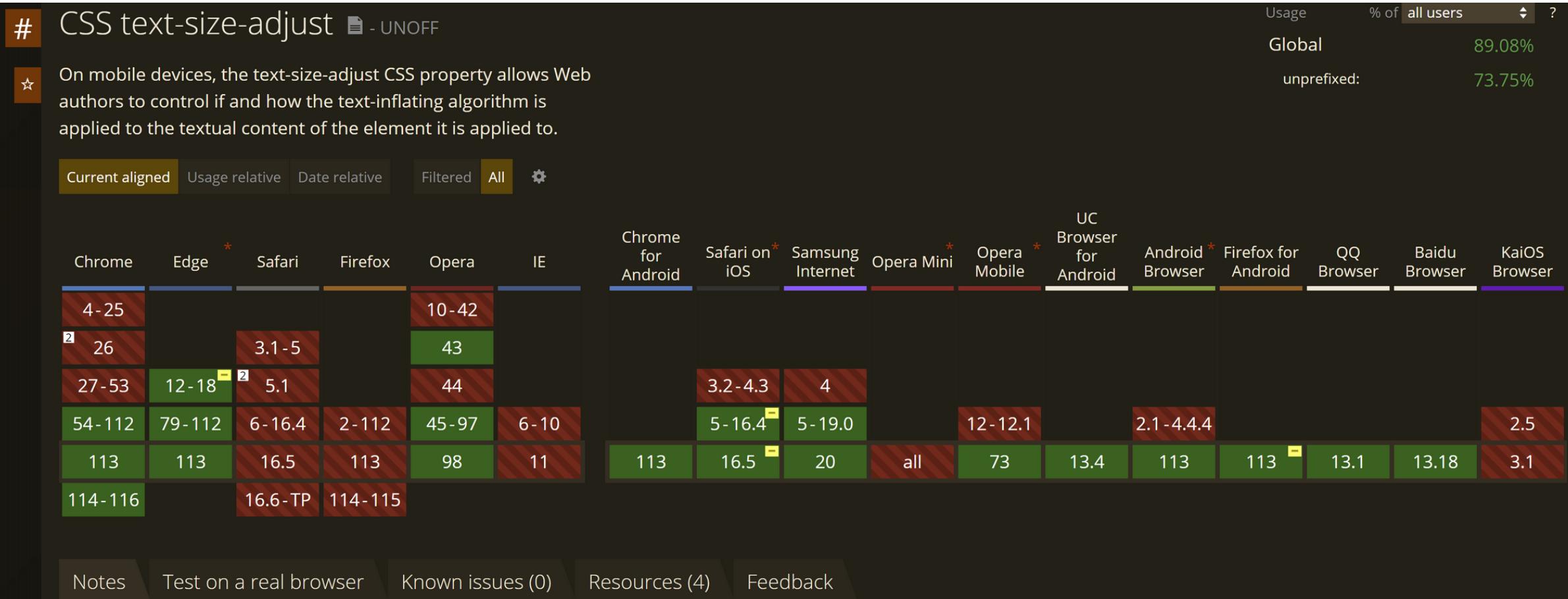
City of Refuge is a non-profit organization that helps refugees and immigrants recover and regain control of their lives.

Join us this Christmas in giving a financial gift to this local organization. When you do, you'll empower refugees to settle into our community by meeting basic needs and providing counseling and professional development.



# Not All CSS Properties Are Globally Available

<https://caniuse.com/>



⚠ Old versions of WebKit-based desktop browsers (Chrome<27, Safari<6) [suffer from a bug](#) where if `-webkit-text-size-adjust` is explicitly set to `none`, instead of ignoring the property, the browsers will prevent the user from zooming in or out on the webpage.

# Recognize CSS Vendor Prefixes

Newer CSS properties that are not yet globally supported might have prefixes for specific browsers

- **-webkit**

Chrome, Safari

- **-moz**

Firefox

- **-o**

Opera

# Questions?