

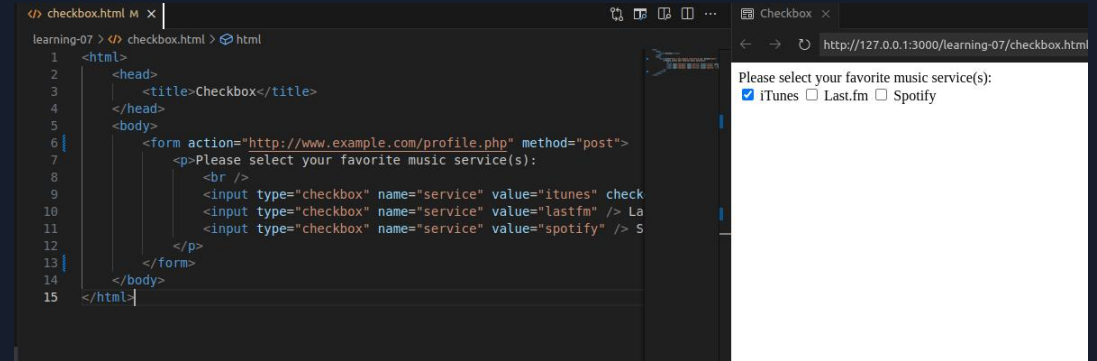
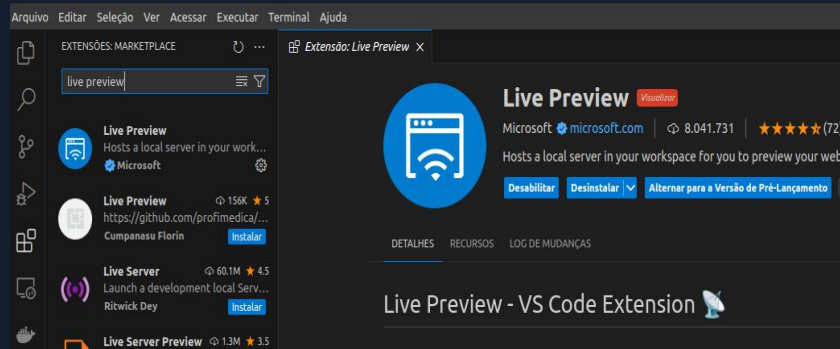
# Web Programming

## HTML Forms

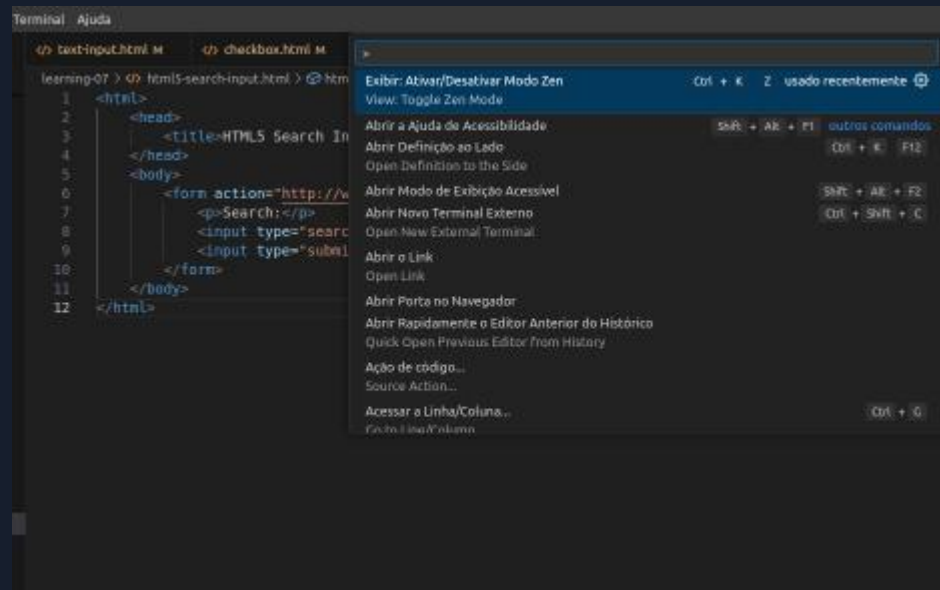


# Config

## Live Preview



## Zen Mode



# Forms

- A group of UI controls that accepts information from the user and sends the information to a web server
- Today: how to make forms
- Sending and processing forms comes later

# Forms

Your Details:

Name:

Email:

Your Review:


How did you hear about us? Google ▼


Would you visit again?

☐ Yes ☐ No ☐ Maybe

Comments:


☒ Sign me up for email updates






Seja bem-vindo!

Por favor identifique-se.



Matrícula, CPF ou E-mail



Senha

[Esqueceu sua senha?](#)

Use seu E-mail, CPF ou Código de Matrícula para efetuar o login.

Name

Choose your username

Create a password

Confirm your password

Birthday


Day

Month ▼

Year

Gender

Mobile phone

 +47

# Form

- In between <form> and </form>
- action is the address where the form is sent
- required attribute, but can be set empty

## HTML

```
<form action="">  
</form>
```

# The input element

- `<input>` is used for several different types of controls (text, password, radio, checkbox)
- Obligatory attributes
- `type` — determines the type of control (text, checkbox, radio, etc.)
- `name` — to identify the form control uniquely (sent back to the server when the form is submitted)
- There are additional optional attributes depending on the type

# Text input

- `<input type="text" name="..." />`
- Attributes
- `size` – width in terms of characters
- `maxlength` – maximum number of characters the user may enter
- `value` – sets the default (initial) value for the field

## HTML

Zip code: `<input type="text" name="zip" maxlength="4" />`

Zip code:

# Password input

- `<input type="password" name="..." />`
- Attributes
- `size` — width in terms of characters
- `maxlength` — maximum number of characters the user may enter
- `value` — sets the default (initial) value for the field
- Password is hidden only on the screen, it is not sent securely to the server (!)

## HTML

Password: `<input type="password" name="pw" />`

Password:



# Number input



- `<input type="number" name="..." />`
- Attributes
- `size` – width
- `min` – minimum value
- `max` – maximum value
- `step` – increments
- `value` – sets the default (initial) value for the field

## HTML

Quantity:

```
<input type="number" name="points" size="3" min="0" max="100" step="10" value="30">
```

Quantity:

# Radio button

- Let the user select only one of a limited number of choices
- `<input type="radio" name="..." value="..." />`
- Each option should have the same name
- Value of value is sent to the server for the selected option
- checked indicates which option should be selected initially

Please select your favorite genre:  
☒ Gospel ☐ Pop ☐ Jazz

## HTML

```
<p>Please select your favorite genre:</p> <br />
<input type="radio" name="genre" value="rock" checked="checked" /> Gospel
<input type="radio" name="genre" value="pop" /> Pop
<input type="radio" name="genre" value="jazz" /> Jazz
```

# Checkbox

- Let the user select zero or more of a limited number of choices
- `<input type="checkbox" name="..." value="..." />`
- Each option should have a different name
- Value of value is sent to the server for the selected option
- checked indicates if the option should be checked initially

## HTML

```
<input type="checkbox" name="service" value="itunes" checked="checked" /> iTunes  
<input type="checkbox" name="service" value="lastfm" /> Last.fm  
<input type="checkbox" name="service" value="spotify" /> Spotify
```

Please select your favorite music service(s):  
☒ iTunes ☐ Last.fm ☐ Spotify

# Textarea

- `<textarea name="...">...</textarea>`
- Attributes
- cols — width (measured in characters)
- rows — height (number of rows)
- Closing tag is mandatory!
- Content of the tag is the initial input value

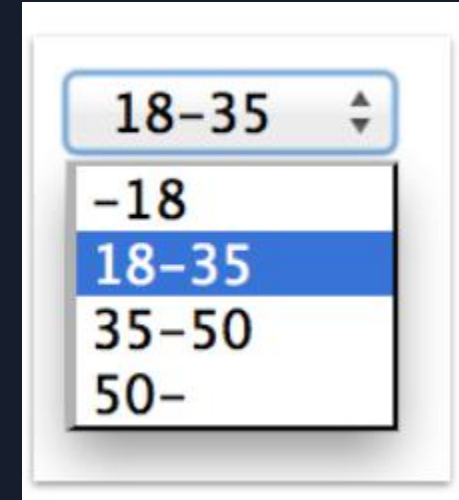
## HTML

What do you think?

```
<textarea name="comment" cols="40" rows="3" > </textarea>
```

# Dropdown list

- Let the user select a single option from a dropdown list
- `<select name="...">...</select>`
- Each option is `<option value="...">...</option>`
- Value of value is sent to the server for the selected option
- selected can be used to set the default option

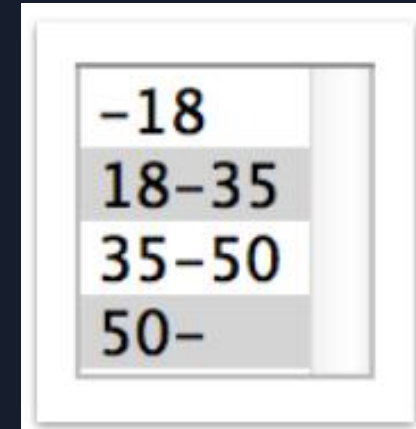


## HTML

```
<select name="age">
<option value="1">-18</option>
<option value="2" selected>18-35</option>
<option value="3">35-50</option>
<option value="4">50-</option>
</select>
```

# Multichoice select list

- Let the user select multiple options from a list
- `<select name="..." multiple>...</select>`
- Each option is `<option value="...">...</option>`
- Value of value is sent to the server for the selected option
- selected can be used to set the default selection(s)



## HTML

```
<select name="age" multiple>
<option value="1">-18</option>
<option value="2" selected>18-35</option>
<option value="3">35-50</option>
<option value="4" selected>50-</option>
</select>
```

# Hidden form variables

- To pass on information that is not entered by the user
- Not shown on the page, but sent along to the server the same way as any other variable

## HTML

```
<input type="hidden" name="secret" value="nosecret" />
```

# Global attributes

- disabled – the field is not usable, content cannot be copied from it
- readonly – the content cannot be changed, but a user can tab to the field and copy content from it
- required – the input field must be filled out before submitting the form





# Submit button

- `<input type="submit" />`
- Attributes
- `value` — the text that appears on the button
- `name` — name of the button

## HTML

```
<input type="submit" value="Awesome" />
```

A rectangular button with rounded corners, a light gray background, and a thin gray border. The word "Awesome" is centered on the button in a dark gray, sans-serif font.

# Labeling form controls

- `<label>` can be used in two ways
- Wrapped around both the text description and the form input  
`<label>Name: <input type="text" name="name" /></label>`
- Kept separate from the form control and using the `for` attribute
- The `for` attribute of the `<label>` tag should be equal to the `id` attribute of the related element to bind them together

## HTML

```
<label for="name">Name</label>  
<input type="text" name="name" id="name" />
```

Name |

# Placeholder text



- placeholder="..." – specifies a short hint that describes the expected value of an input field
- The hint is displayed before the user enters a value into the field
- Works for the following
- input types: text, search, url, tel, email, password
- textarea

## HTML

```
<input type="text" name="name" size="20" placeholder="Firstname, lastname" />
```

Name

# Grouping fields

- `<fieldset>...</fieldset>`
- Used for grouping related elements in a form
- `<legend>` can be used inside to provide a caption (optional)

## HTML

```
<fieldset>  
  <legend>Delivery address</legend>  
  <label>City: <input type="text" name="city" size="10" /> </label>  
  <label>Zip: <input type="text" name="zip" size="4" /> </label>  
  <label>Street: <input type="text" name="street" size="20" /> </label>  
  <label>House no: <input type="text" name="hougeno" size="4" /> </label>  
</fieldset>
```



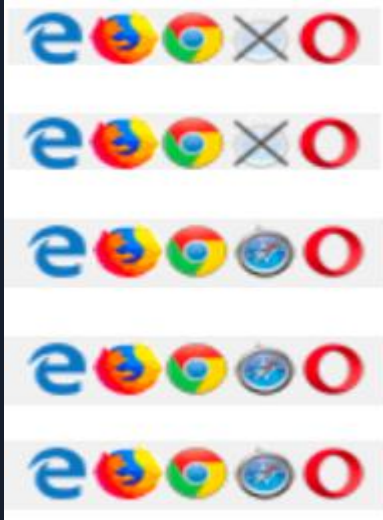
Delivery address

City:  Zip:  Street:  House no:

# More HTML5 input types



- Date
- Email
- URL
- Search
- Color
- ...



Pick a date

Email address

! Please include an '@' in the email address. 'john.smith' is missing an '@'.

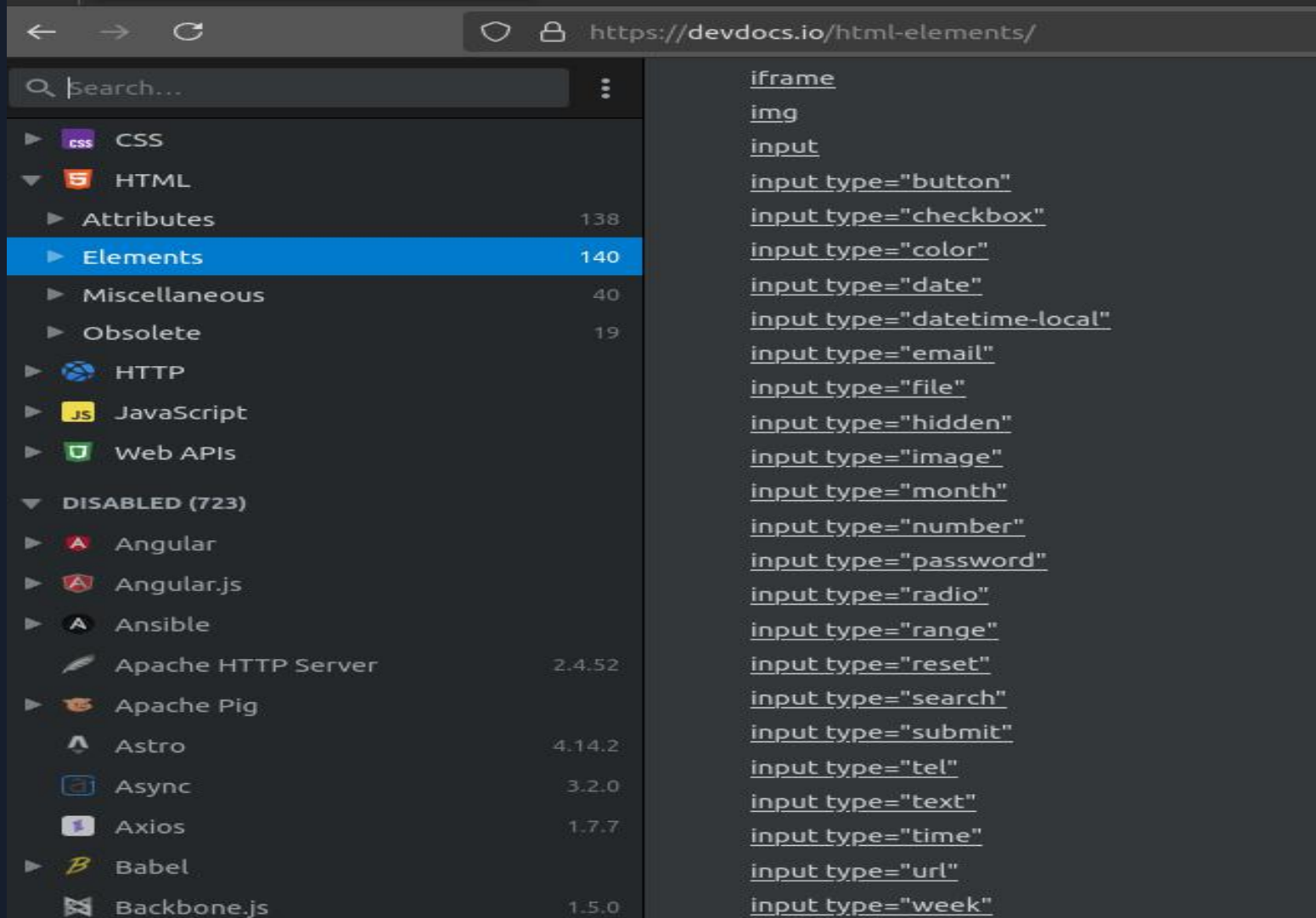
URL:

! Please enter a URL.

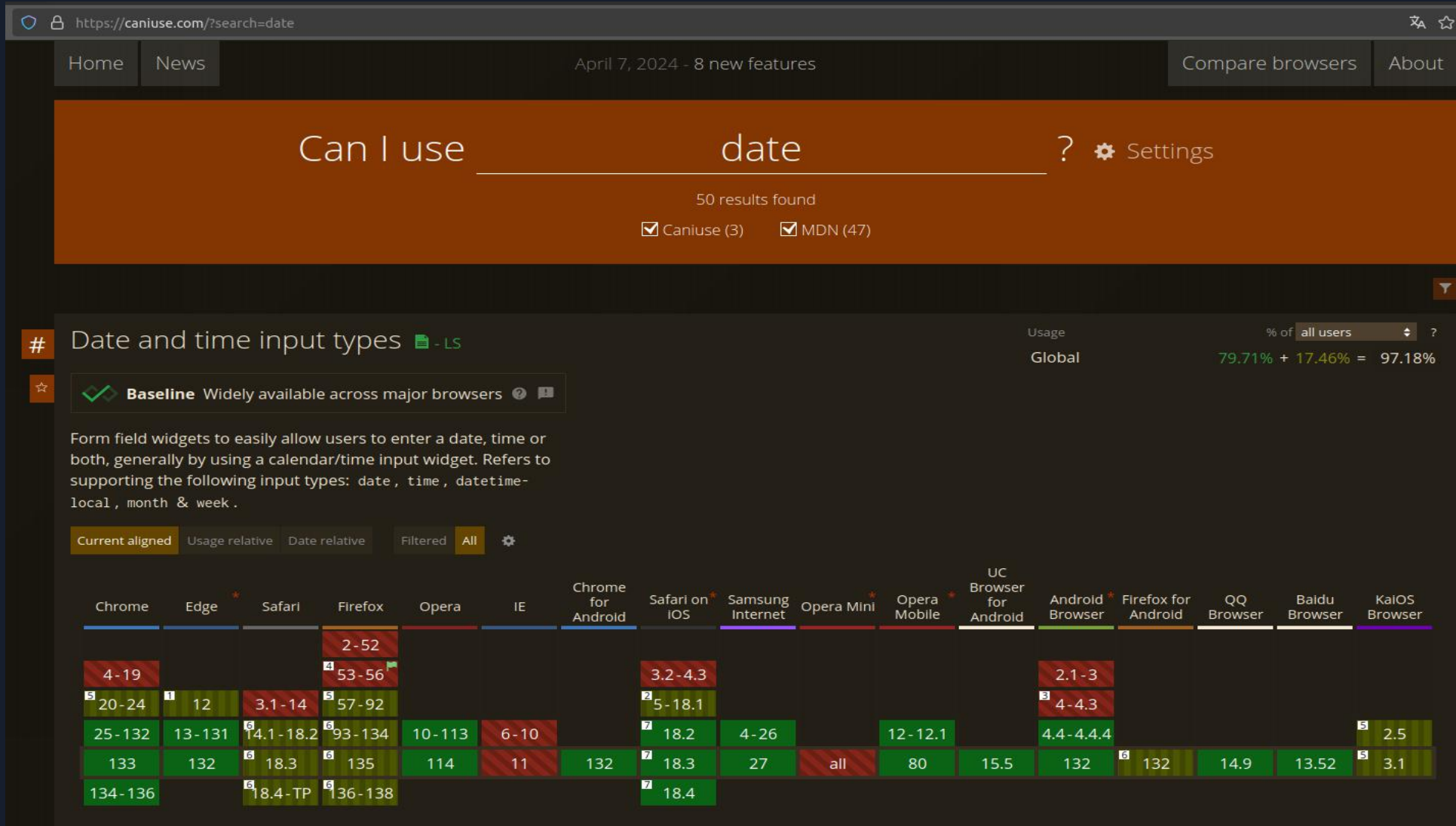
Search

- See [http://www.w3schools.com/html/html\\_form\\_input\\_types.asp](http://www.w3schools.com/html/html_form_input_types.asp)

# Documentation



<https://devdocs.io/>



# Exercise from #1 to #9



[https://github.com/weder96/programming\\_web/blob/main/exercises/html/forms/README.md](https://github.com/weder96/programming_web/blob/main/exercises/html/forms/README.md)



exercises/html/forms



# References

- HTML5 test

- <https://css-tricks.com/centering-css-complete-guide/>

- Styling forms using CSS

- <http://tutorials.jenkov.com/css/forms.html>

- <https://jonathan-harrell.com/advanced-css-form-styling/>

- <https://www.sanwebe.com/2014/08/css-html-forms-designs>

- A/B testing quiz

- <http://bit.ly/2n7P6un>