



Forms



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User

Password

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Canva

Forms

- A HTML `<form>` element is a way of defining a form which is used to get user input
- They consist of different types of input elements:
 - text fields
 - checkboxes
 - radio buttons
 - submit buttons
- We specify the type of input element using the type attribute:

```
<form name="user_form">  
  First name:<br>  
  <input type="text" name="firstname">  
  Last name:<br>  
  <input type="text" name="lastname">  
</form>
```

Reading forms in JavaScript

document.forms

When you have forms in your document, they can be found in a special document property called `document.forms`

This is a “named collection”, i.e. it’s both named and ordered. We can use both the name or the number in the document to get the form.

```
document.forms.test // the form with name="test"  
document.forms["test"] // also the form with name="test"  
document.forms[0] // the first form in the document
```

form.elements

Each form has a field `form.elements` which has all of the elements in that form.
This is also a “named collection”

HTML

```
<form>
  <input type="text" name="fname">
  <input type="radio" name="age" value="10">
  <input type="radio" name="age" value="20">
</form>
```

JS

```
const form = document.forms[0];

// element with the name "fname"
form.elements.fname;
// shorter notation:
form.fname;

// since there are multiple elements with
the name "age", this returns a collection
const ages = form.elements.age;
```

Backreferences

Each form element stores a backreference to the form it came from, `element.form`

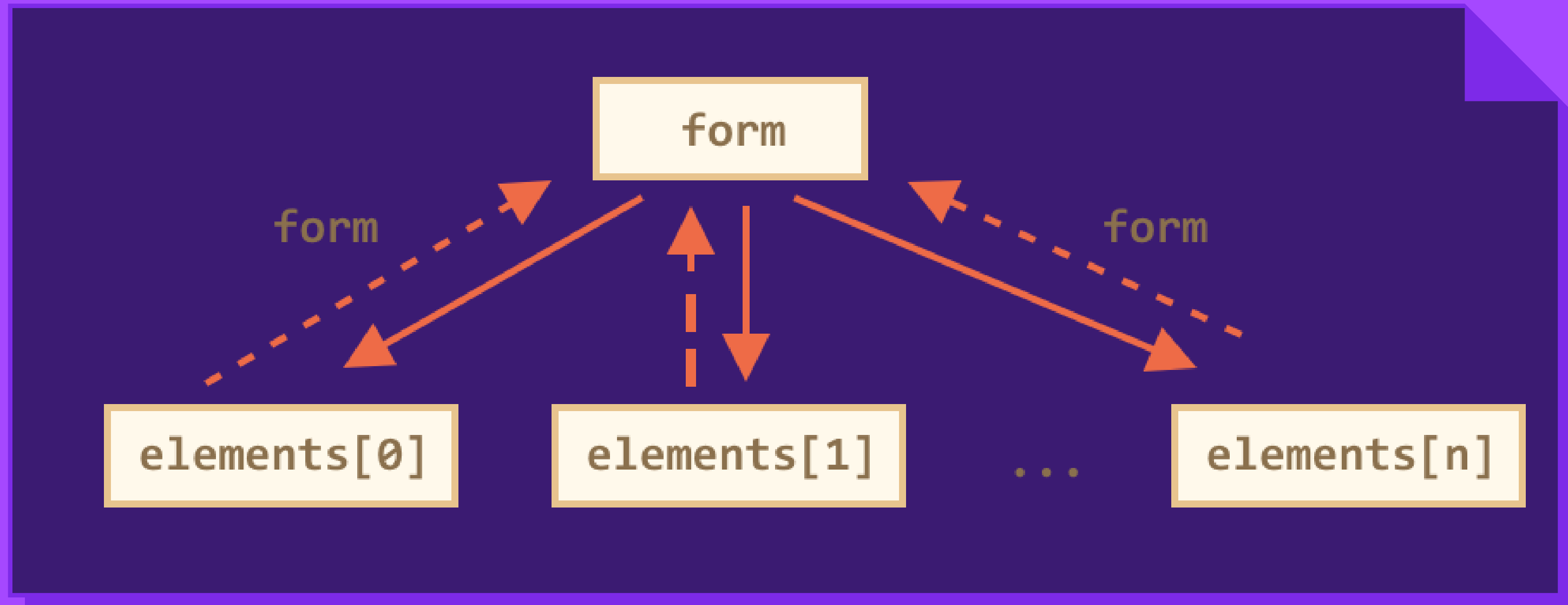


Image source: javascript.info

Backreferences


HTML

```
<form>  
  <input type="text" name="login">  
</form>
```

JS

```
const form = document.forms[0];  
const login = form.login;  
  
console.log(login.form)
```

What will this
console.log?



Form Values

To get the value of a form element:

```
// To get the text for an input element or textarea:  
input.value
```

```
// To get a boolean for a checkbox or radio button  
input.checked
```

```
// For a <select> tag  
select.options // the collection of <option>s  
select.value // the value of the currently selected option,  
select.selectedIndex // the index of the currently selected option
```


Submit Buttons and onsubmit

- `<input type="submit">` defines a button for submitting the form data to a **form-handler**
- Clicking a submit button triggers a "submit" event on the form
- We can listen to this event, and run form validation

```
form.addEventListener('submit', (event) => {  
  event.preventDefault();  
  // form validation can go here  
});
```

Forms

Example