JQuery
Part 2

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Agenda

1. DOM Manipulation
2. AJAX

1. DOM Manipulation

- Add and Remove Elements
- Change Attributes
- Update the content of elements
- Edit the CSS of an element

1. DOM Manipulation

- Add and Remove Elements
  - **ELEM.append(‘<div></div>‘)**
  - **ELEM.remove()**
- Change Attributes
  - **ELEM.attr(‘id‘, ‘newId‘)**
  - **ELEM.removeAttr(‘style‘)**
- Update the content of elements
  - **ELEM.html( )**
  - **ELEM.text( )**
- Edit the CSS of an element
  - **ELEM.css(‘font-size‘, ’12px‘);**

1. DOM Manipulation

- Add DOM Elements relative to selected elements
  - **ELEM.after(‘<div>hi</div>‘)**
  - **ELEM.before(‘<div>hi</div>‘)**
  - **ELEM.append(‘<div>hi</div>‘)**

1. DOM Manipulation

- Add DOM Elements relative to selected elements
  - **ELEM.after(‘<div>hi</div>‘)**
  - **ELEM.before(‘<div>hi</div>‘)**
  - **ELEM.append(‘<div>hi</div>‘)**

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  - **$(‘<div>hi</div>‘).insertAfter(ELEM)**
  - **$(‘<div>hi</div>‘).insertBefore(ELEM)**
  - **$(‘<div>hi</div>‘).appendTo(ELEM)**

1. DOM Manipulation

- Question:

  What is the difference between

  after() and append()?

1. DOM Manipulation

- Question:

  What is the difference between

  ELEM.after(x) and ELEM.append(x)?

append(): always puts an element x inside of ELEM at latest place.

after(): puts an element x next to ELEM.

1. DOM Manipulation

- ELEM.remove()
  - Removes the element from the DOM
- ELEM.detach()
  - Removes the element from the DOM and keeps all data associated with it, i.e. CSS changes
- ELEM.empty()
  - Deletes the inner HTML of the element

2. AJAX

```
$.ajax({
    url: 'data.json',
    type: 'GET',
    dataType: 'json',
    success: function(response) { ... },
    complete: function(xhr, status) { ... },
    error: function(xhr, status) { ... }
});
```

2. AJAX

- Shorter forms of $.ajax
  1. $.get(url, function(response) { ... });
  2. $.getScript(url, function() {
     });
  3. $.getJSON(url, function(response) {
     });

3. AJAX

- What is the difference between a GET and a POST request?

3. AJAX

- What is the difference between a GET and a POST request?

- GET is used for **reading** from web-resource.
- POST is used for **creating** a new web-resource.

3. AJAX

Task: We want to save the contact requests from
your personal website.

1. Create an AJAX **POST** request to
   35.156.88.18:3050/contacts

   With the data:
   { studentaccount: ‘youraccount‘,
     name: ‘thenameofyour contact‘,
     email: ‘theemailofyourguest‘,
     text: ‘thecontactmessageofyourguest‘ }

2. Test if your contact request has been saved by going to
   35.156.88.18:3050/contacts?studentaccount=XYZ in your browser (GET-request)