

Fra Design til Kode – Form & indhold

- Modul 4 - Webstack
- Recap om web-sider, web-servere (php), html, css og datakilder
- Arbejde i breakout med html/css ud fra design + Jons fly-booking



Velkommen til Solsikkens sms system

- ☐ Røverstuen
- ☐ Missestuen
- ☐ Blomsterstuen
- ☐ Slyngestuen
- ☐ Abestuen
- ☐ Send til pædagoger

Indtast besked

Send sms

Fortryd

```
data 4096 Mar 23 22:50 ../Bornholm/  
-----  
Spring2021 (thor)
```

```
ld ../cgi-bin/  
< 2 root root 4096 Mar 23 23:22 ../cgi-bin/  
-----  
p/cgi-bin @ Spring2021 (thor)  
runEnv.sh  
sh  
./ PrintEnv  
-----  
p/cgi-bin @ Spring2021 (thor)
```

Take aways ...

- Need to

- Bygge en form med alle elementer
 - Inputtypes (husk id og name)
 - Action-attribut der peger på en htmlside
- Analysér urlens parametre
- Kende til `<script>` og `<link>`
- Kan "tænde" udviklerværktøjet
- Kunne transportere en html-fil til din droplet med f.eks FileZilla
- åbne og redigere i en texteditor

- Nice to

- Bygge en form med alle elementer
 - Action-attribut der peger på en cgi
 - Få svar tilbage fra serveren med input
- Style med css og/eller bootstrap
- Basal DOM-manipulation med JS
- Kan identificere fejl i konsollen
- Kunne transportere en tar-fil til din droplet i gitbash, evt script
- Kunne redigere en fil i vim
- Kan "beskrive" en simpel http-server

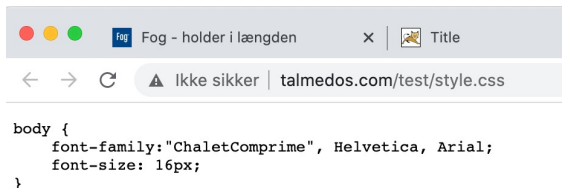
Elementer fra siden



Domæne-navn

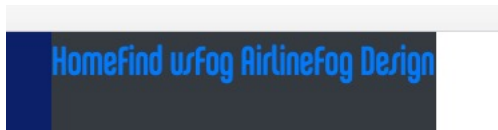


Banner



Font

Navigation



Comment on car

Indrend

HTML elementer

-Forms

-dropdowns

- fritekst søgning

Elementer fra siden II

Din favorit hobby

```
<div class="myhobby">
  <h2> Min hobby </h2>
  <form action="cgi-bin/runEnv.sh" method="get">
    <label>Din favorit hobby</label>
    <input type="text" name="hobby" maxlength="50" />
    <input type="submit" value="Send" />
  </form>
</div>
```

```
.myhobby {
  font-family: ChaletComprime,Arial;
  background-color: beige;
  left: 30px;
  margin-top: 20px;
  margin-bottom: 20px;
  border: 10px;
```

selector property value declaration end

a { background: green; }

↑ declaration start ↑ property/value separator ↑ declaration separator

Statisk HTML elementer

- Forms (input type="...")
- type, name, id,

Dynamisk HTML

- action=cgi-script or servlet

CSS – Formatering

- Selectors
- Text
- Borders
- Positioning
- Box Model

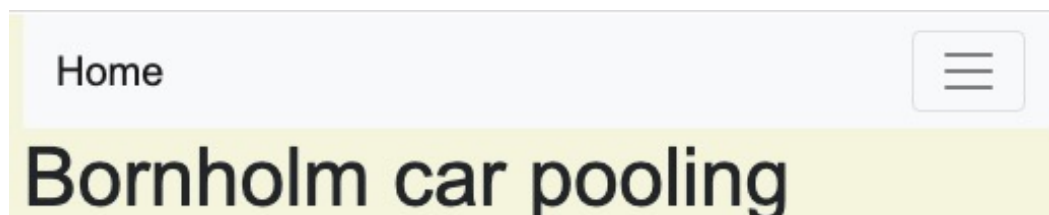
CSS – Implementering

CSS – Regler

Elementer fra siden III – Bootstrap & params

☐ Mand ☒ Kvinde ☒ Musik ☒ Ryger ☐ Dyr ☐ Snakker

- Input
- Navbar
- Jumbotron
- Knapper
- Grid



<http://localhost:63342/MyBornholm/Bornholm/cgi-bin/runEnv.sh?>

start=ronne&destsel=ronne&date=&afg=Kurt&dest=Verner&hobby=Ridning&gender=F&mus
=mus&r%C3%B8g=smoke&dyr=dyr

TOOLING

- Cheat Sheets
- Chrome
- IDE - IntelliJ

Template <html> <head> <title></title> Meta tags CSS Javascript </head> <body> Content </body> </html> CSS Media all handheld print projection screen Meta Types http-equiv name Lists 	Syntax Basic HTML: <tag></tagclose> or <tag> XHTML: <tag></tagclose> or <tag /> With Attribute HTML: <tag attribute="?"> XHTML: <tag attribute="?" /> General <body> Visible part of the page <head> Part not displayed on page <html> Creates an HTML page <title> Creates the Page name in title bar Links * Displays an image Link to anchor in current page Link to another page Link to anchor in another page E-mail link Structure * Line break <code> Source code listing <div> Formats structure or block of text Italic text <h1>.. h6 <hr> Horizontal rule <p> Paragraph <pre> Preformatted text Inline formatting Bold text <sub> Subscript text <sup> Superscript text Frames <frame> Defines a single frame 	Head <style type="text/css">@import "URL"; </style> <link rel="stylesheet" href="?" type="text/css">* External CSS link <script language="Javascript" type="text/javascript"> Embedded javascript <meta name="?" content="?" />* Meta info Tables <caption> Table caption <table> Defines a table <tbody> Body section of table <td> Table cell <td colspan="?"> Number of columns cell spans <tr> Number of rows cell spans <tr> Footer section of the table <th> Table header cells <th colspan="?"> Number of columns table header cell spans <thead> Header section of table <tr> Table row	Table <table> <thead> <tr> <th> </th> </tr> </thead> <tbody> <tr> <td> </td> </tr> </tbody> <tfoot> <tr> <td> </td> </tr> </tfoot> </table> Input Types button checkbox file hidden image password radio reset submit text
	Forms <form> Defines a form <fieldset> Group of related form items <input type="?">* Form element [see input types] <option> Menu item in a select box <select> Drop-down menu <textarea> Multi-row text area		

CSS Cheat Sheet

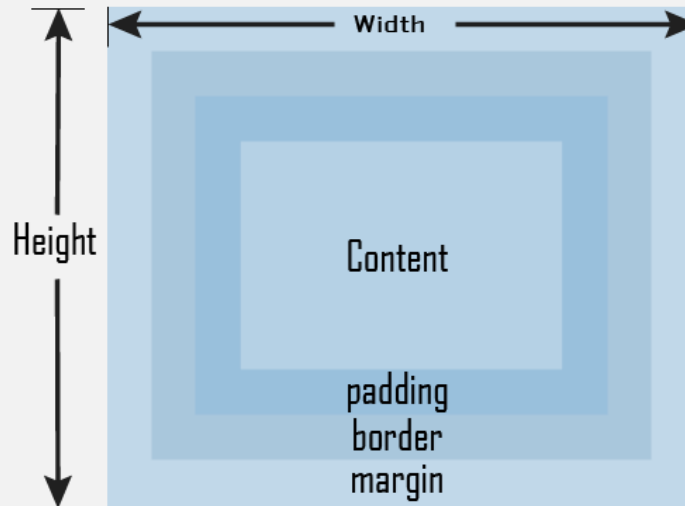
Selectors

<code>div</code>	all DIV tags
<code>div, spam</code>	all DIV tags and all SPAN tags
<code>div span</code>	all SPAN tags inside DIVs
<code>#content</code>	element with ID "content"
<code>.box</code>	all elements with CLASS "box"
<code>ul#box</code>	UL tag with ID "box"
<code>span.box</code>	all SPAN tags with CLASS "box"
<code>*</code>	all elements
<code>#box*</code>	all elements inside #box
<code>a:link, a:active,</code>	links in normal state, in clicked state,
<code>a:visited</code>	and in visited state
<code>a:hover</code>	link with mouse over it
<code>div > span</code>	all SPANs one-level deep in a DIV
<code>div + span</code>	all SPANs preceded by DIV

Text

<code>font-family</code>	font used, e.g. Helvetica, Arial
<code>font-size</code>	text size, e.g. 60px, 3em
<code>color</code>	text color, e.g. #000, #abcdef
<code>font-weight</code>	how bold the text is, e.g. bold
<code>font-style</code>	what style the text is e.g. italic
<code>text-decoration</code>	sets a variety of effects on text, e.g. underline, overline, none
<code>text-align</code>	how text is aligned, e.g. center
<code>line-height</code>	spacing between lines, e.g. 2em
<code>letter-spacing</code>	spacing between letters, e.g. 5px
<code>text-indent</code>	indent of the first line, e.g. 2em
<code>text-transform</code>	applies formatting to text, e.g. uppercase, lowercase, capitalize
<code>vertical-align</code>	align relative to baseline, e.g. text-top

Box Model



Borders and Dimensions

<code>border</code>	sets border style for all borders, in the format: border: (solid, dashed, dotted, double) (width) (color), e.g. border: solid 1px #000
<code>border-top</code>	sets border style for a specific border (same property syntax used for padding and margin, e.g. margin-left)
<code>border-bottom</code>	
<code>border-left</code>	
<code>border-right</code>	
<code>height</code>	sets height of an element
<code>max-height</code>	sets maximum height of an element
<code>min-height</code>	sets minimum height of an element
<code>width</code>	sets width of an element
<code>max-width</code>	sets maximum width of an element
<code>min-width</code>	sets minimum width of an element

Positioning

<code>Position</code>	place elements on screen, e.g. absolute, fixed, relative
<code>float</code>	stacks elements horizontally in a particular direction, e.g. left
<code>top, left, right, bottom</code>	specifies the offsets used in absolute, fixed, and relative positions, e.g. top:10px;left:10px
<code>display</code>	sets how the elements is placed in the doc flow, e.g. block, inline, none
<code>z-index</code>	sets the stracking order of elements, e.g. z-index of 1 is below z-index of 2
<code>overflow</code>	sets what happens to content outside of container, e.g. auto, hidden

Everything Else

<code>background</code>	sets background of an element, in the format: background: (color) (image) (repeat) (position), e.g. background: #000 url(bg.png) repeat-x top left
<code>cursor</code>	sets shape of cursor, e.g. pointer
<code>outline</code>	a border drawn around an elements that doesn't affect the box model
<code>clear</code>	sets on what side a new line starts in relation to nearby floated elements, e.g. left, right, both
<code>box-shadow</code>	attaches one or more shadows to an element
<code>box-sizing</code>	defines how the width and height of an element are calculated: should they include padding and borders, or not.

The most common DOM methods at a glance

Reaching Elements in a Document

`document.getElementById('id')`: Retrieves the element with the given `id` as an object

`document.getElementsByTagName('tagname')`: Retrieves all elements with the tag name `tagname` and stores them in an array-like list

Reading Element Attributes, Node Values and Other Data

`node.getAttribute('attribute')`: Retrieves the value of the attribute with the name `attribute`

`node.setAttribute('attribute', 'value')`: Sets the value of the attribute with the name `attribute` to `value`

`node.nodeType`: Reads the type of the `node` (1 = element, 3 = text node)

`node.nodeName`: Reads the name of the `node` (either element name or `#textNode`)

`node.nodeValue`: Reads or sets the value of the `node` (the text content in the case of text nodes)

Navigating Between Nodes

`node.previousSibling`: Retrieves the previous sibling node and stores it as an object.

`node.nextSibling`: Retrieves the next sibling node and stores it as an object.

`node.childNodes`: Retrieves all child nodes of the object and stores them in an list. here are shortcuts for the first and last child node, named `node.firstChild` and `node.lastChild`.

`node.parentNode`: Retrieves the node containing `node`.

Creating New Nodes

`document.createElement(element)`: Creates a new element node with the name `element`. You provide the name as a string.

`document.createTextNode(string)`: Creates a new text node with the node value of `string`.

`newNode = node.cloneNode(bool)`: Creates `newNode` as a copy (clone) of `node`. If `bool` is `true`, the clone includes clones of all the child nodes of the original.

`node.appendChild(newNode)`: Adds `newNode` as a new (last) child node to `node`.

`node.insertBefore(newNode, oldNode)`: Inserts `newNode` as a new child node of `node` before `oldNode`.

`node.removeChild(oldNode)`: Removes the child `oldNode` from `node`.

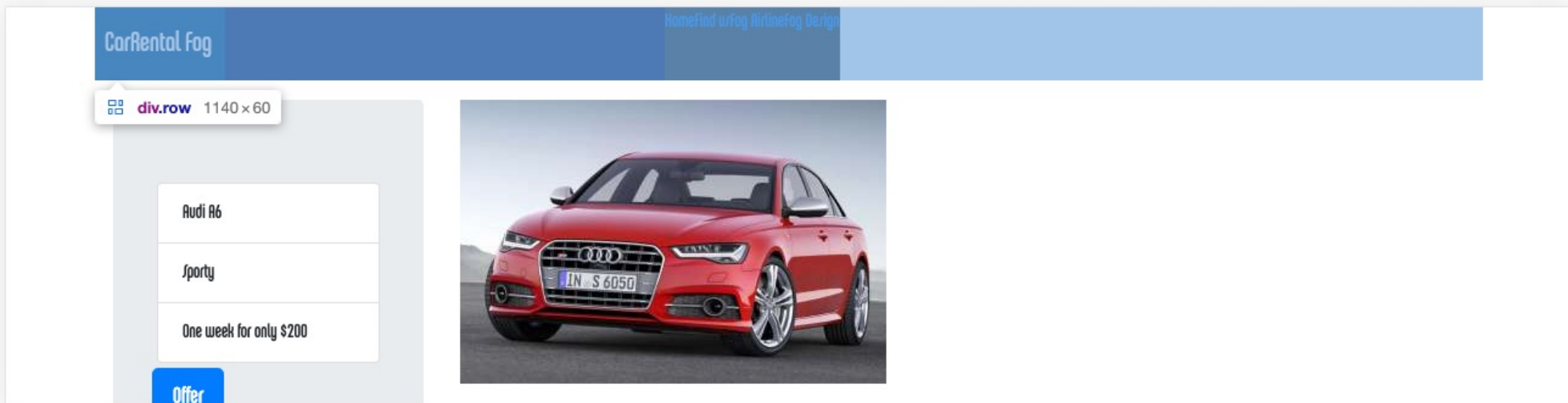
`node.replaceChild(newNode, oldNode)`: Replaces the child node `oldNode` of `node` with `newNode`.

`element.innerHTML`: Reads or writes the HTML content of the given element as a string—including all child nodes with their attributes and text content.

Known browser quirks:

`getAttribute` and `setAttribute` are not reliable. Instead, assign the property of the element object directly: `obj.property = value`. Furthermore, some attributes are actually reserved words, so instead of `class` use `className` and instead of `for` use `HTMLfor`.

Real DOM compliant browsers will return linebreaks as text nodes in the `childNodes` collection, make sure to either remove them or test for the `nodeType`.



```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body> == $0
  <div id="StayFocusd-infobar" style="display:none;">...</div>
  <div class="container">
    <div class="row">...</div>
    <div class="row">...</div>
    <div class="row">
      <div class="col-md-3">...</div>
      <div class="col-md-4 col-sm">...</div>
    </div>
    <!--<div id="bannerimage"></div-->
    <form action="cgi-bin/run.cgi" method="GET">...</form>
    <footer class="page-footer font-small blue">...</footer>
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
      crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js" integrity="sha384-9/reFTGAw83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+6BZp6
      G7niu735Sk7lN" crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js" integrity="sha384-B4gt1jrgC7Jh4AgTPSdUt0Bvf08shuf57BaghqFfPLYxfvL
      8/KUEfYiJOMMV+rV" crossorigin="anonymous"></script>
  </div>
</body>
</html>
```

Styles Computed Layout Event Listeners >>

Filter :hov .cls +

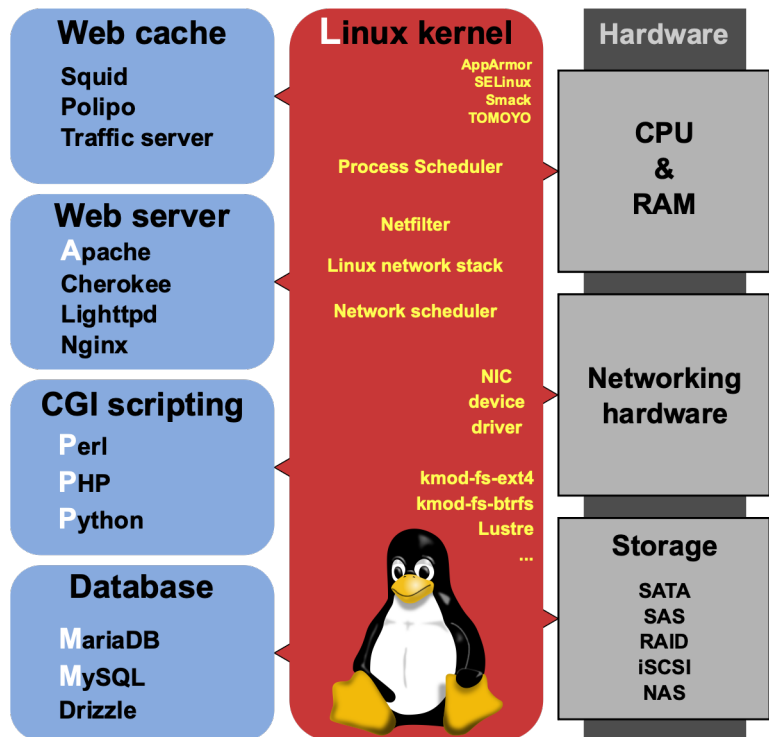
element.style { }

body { style.css:1
font-family: "ChaletComprime", Helvetica, Arial;
font-size: 16px;
}

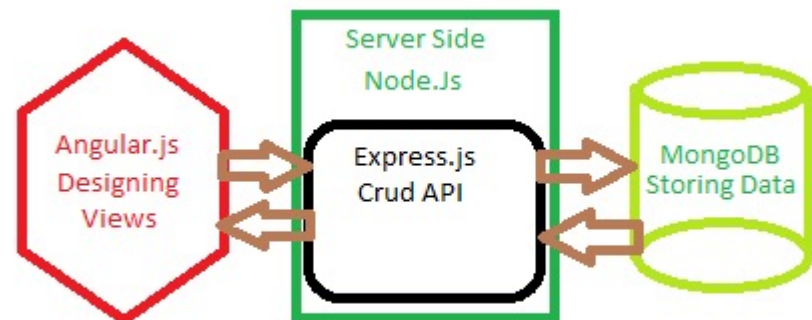
body { _reboot.scss:47
margin: > 0;
font-family: --apple-system,BlinkMacSystemFont,"Segoe UI",Roboto,"Helvetica Neue",Arial,"Noto Sans",sans-serif,"Apple Color Emoji","Segoe UI Emoji","Segoe UI Symbol","Noto Color Emoji";
font-size: 1rem;
font-weight: 400;
line-height: 1.5;
color: #212529;
text-align: left;
background-color: #fff;
}

Apache HTTP-server - LAMP

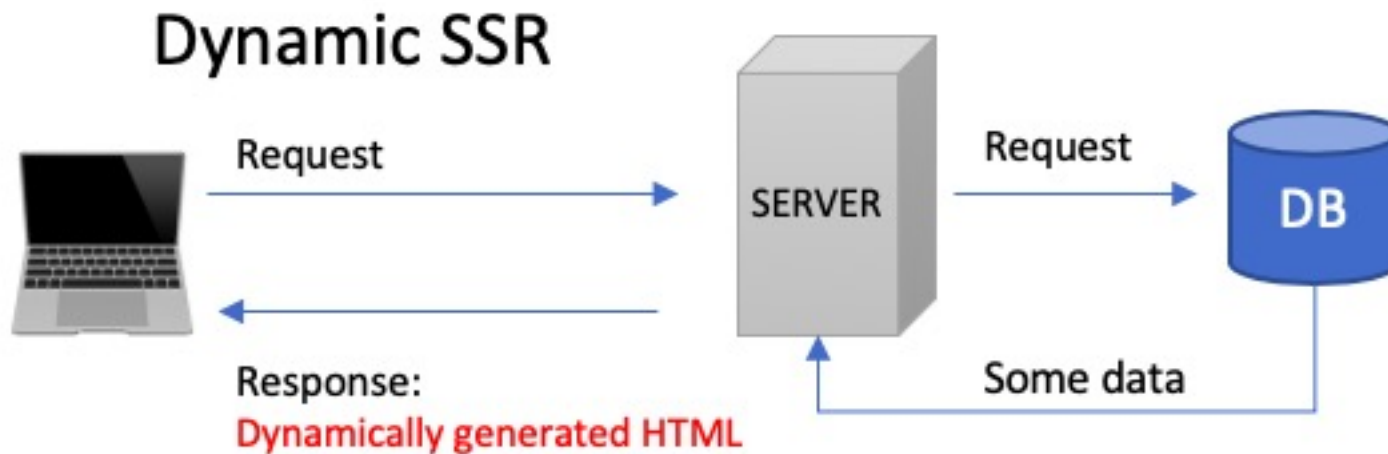
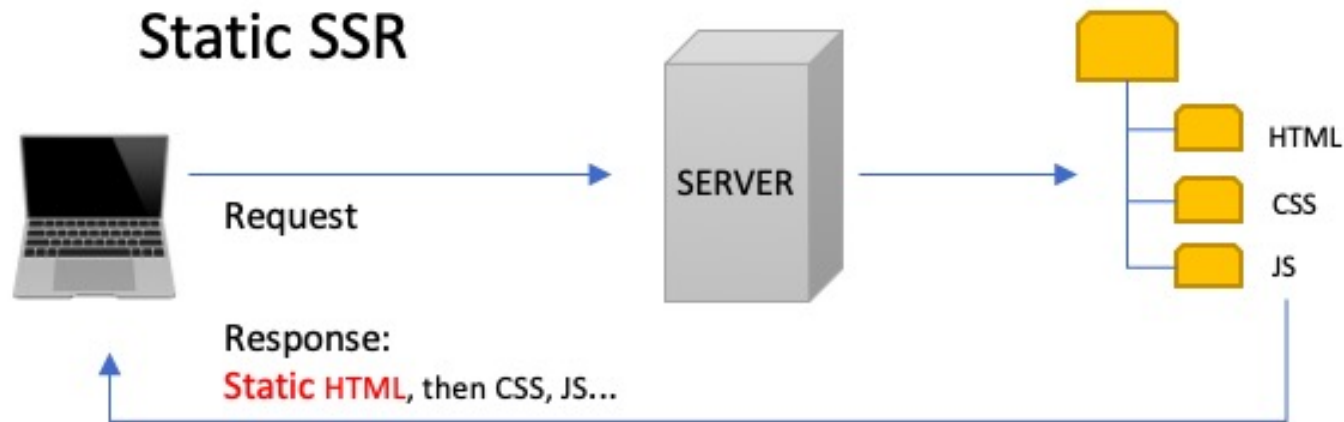
LAMP stack



MEAN stack

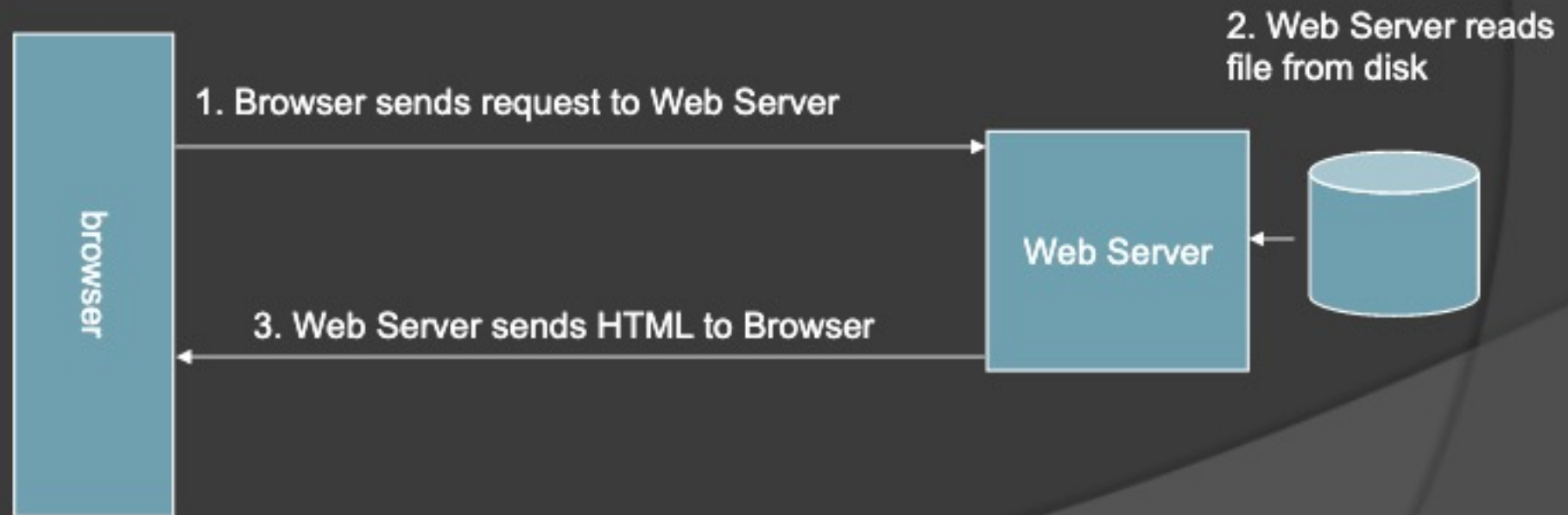


Web Server – Static HTML vs Dynamic



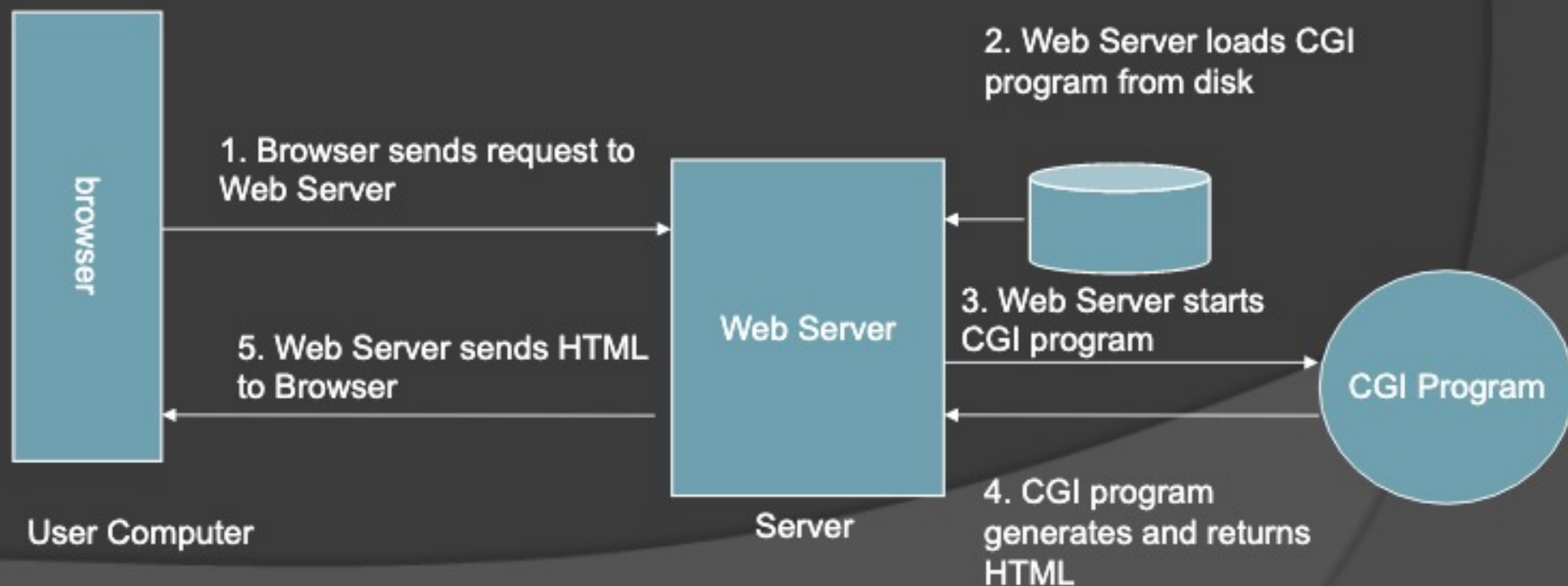
Static content

- Web Server delivers contents of a file (html)



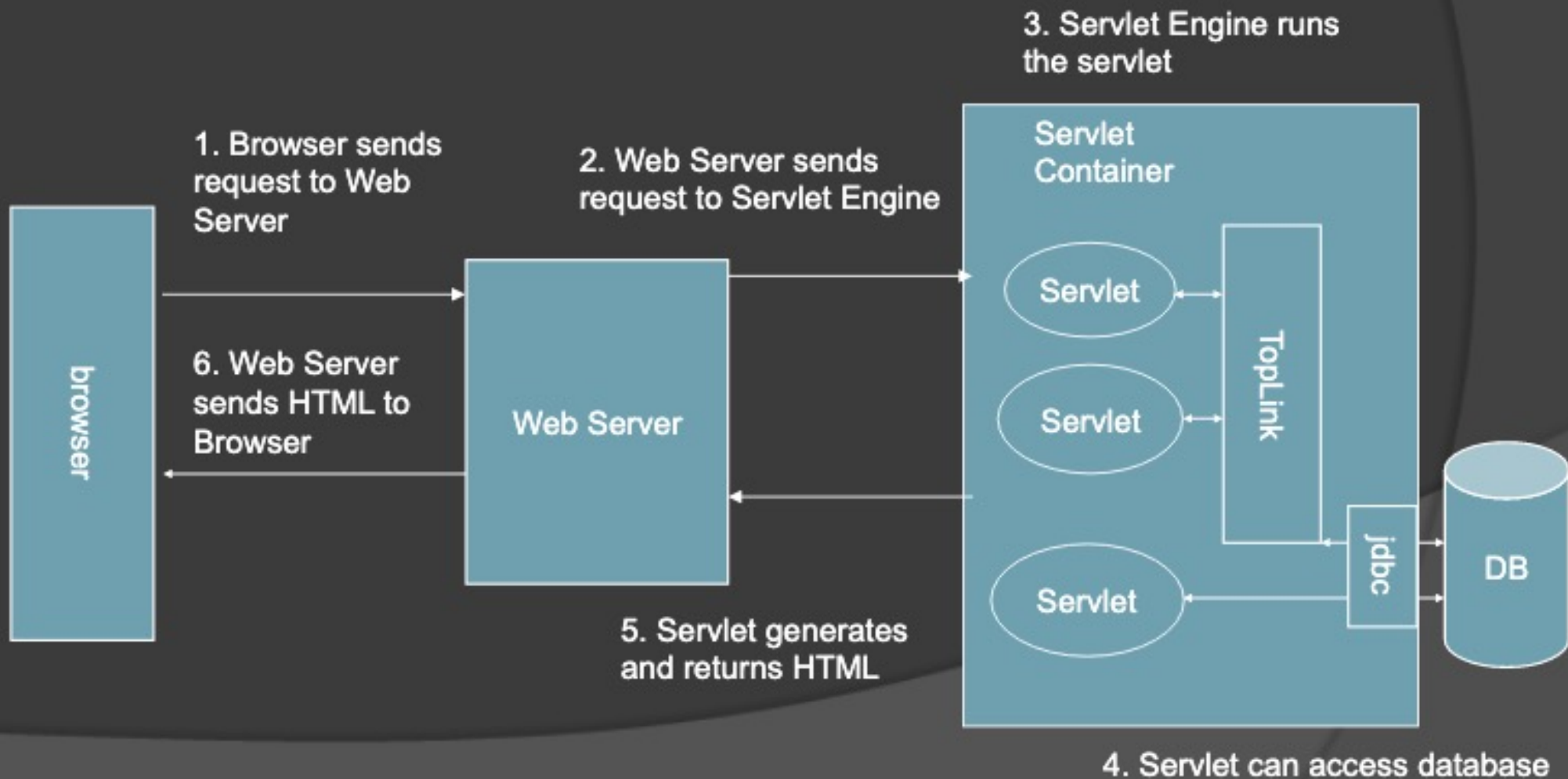
Dynamic Content

- CGI(Common Gateway Interface)program generates HTML that is returned to Browser



Java Servlet Diagram

● Extends Web Server



I gang med IntelliJ og Slyngelstuens SMS

