

# Programming of Web Pages

## Lecture 1

2023

# Topics of lectures

HTML

CSS

JavaScript

jQuery

Bootstrap

W3.CSS

AJAX

JavaScript frameworks

# How to pass

Pass a test from the lecture

Pass laboratory classes

The final mark from the subject:

Average value of the marks obtained  
from lecture and laboratory classes

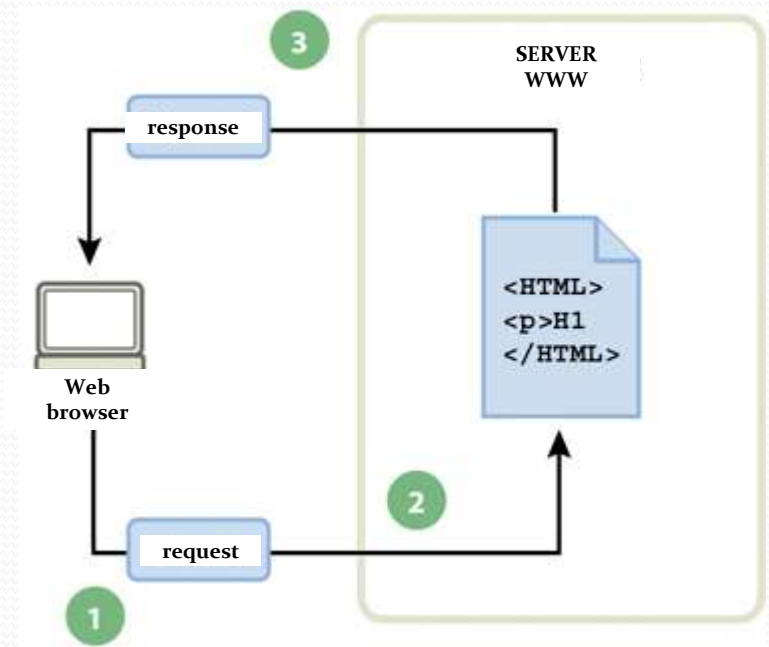
Contact: [www.kisi.pcz.pl](http://www.kisi.pcz.pl)

# Static websites

They don't change content for any request

Changes on website are done by changing code of the website

The final shape, structure and organizing schema of static website must be known at the design phase



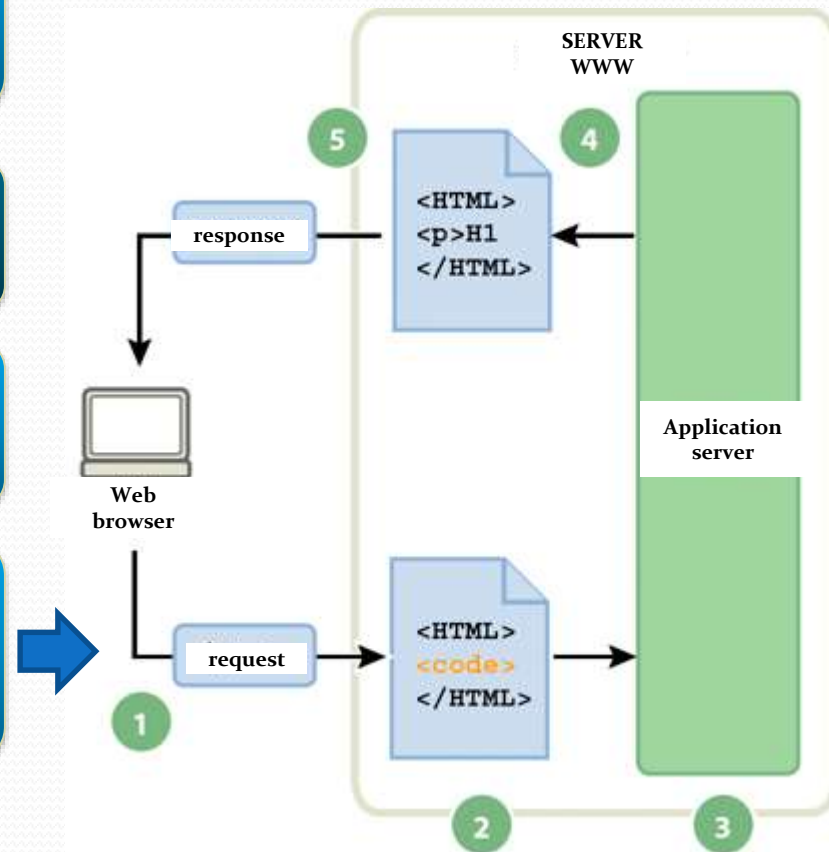
# Dynamic websites

Their content may depend on the user interaction

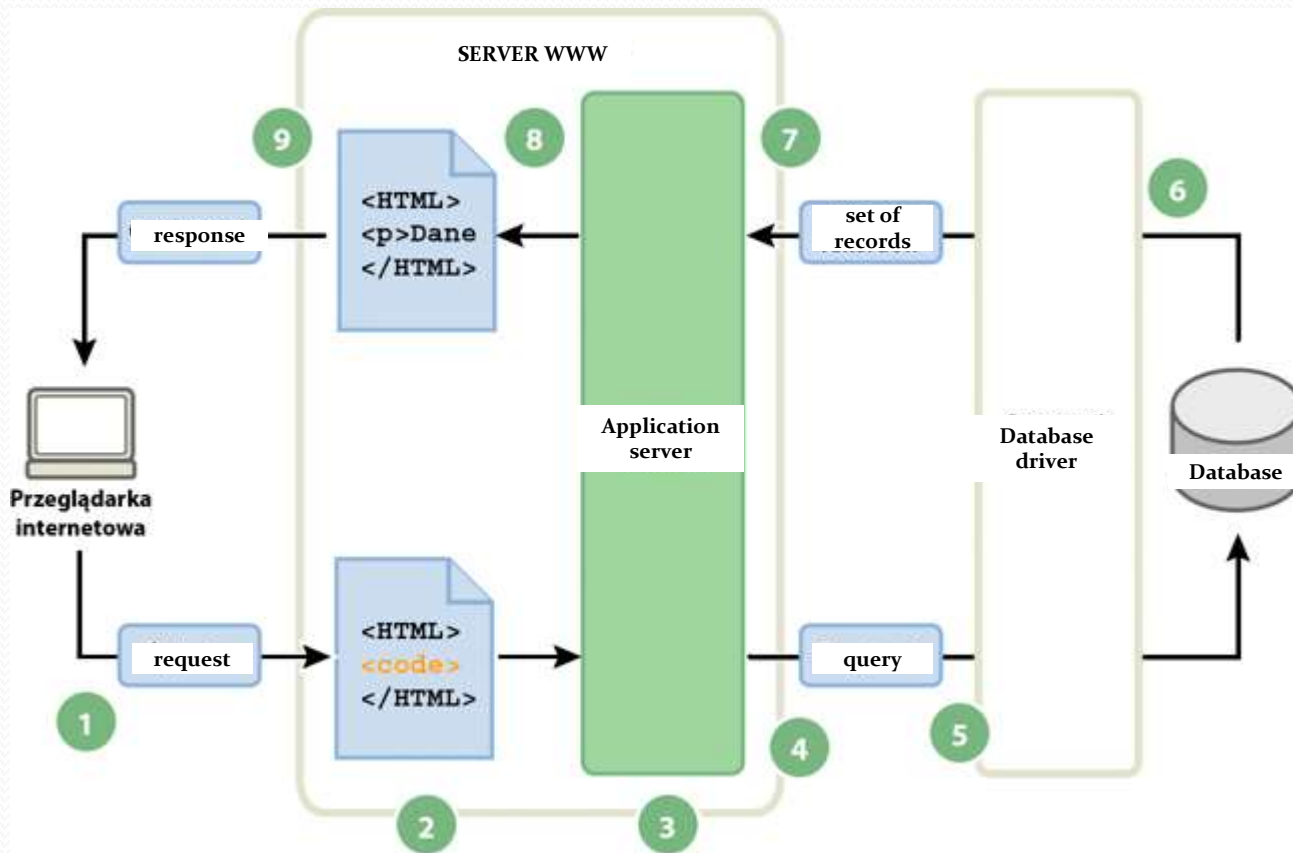
Dynamic processing of content can be categorized into two groups:

a) client-side – changes are performed in the web browser

b) server-side – script code is compiled in the server and next its result is sent to the browser



# Dynamic websites using databases



# What to chose?

## STATIC website

quick implementation

cheap hosting

lack of interactivity

low scalability

lack of personalization

## DYNAMIC website

high interactivity

possibility of  
personalization

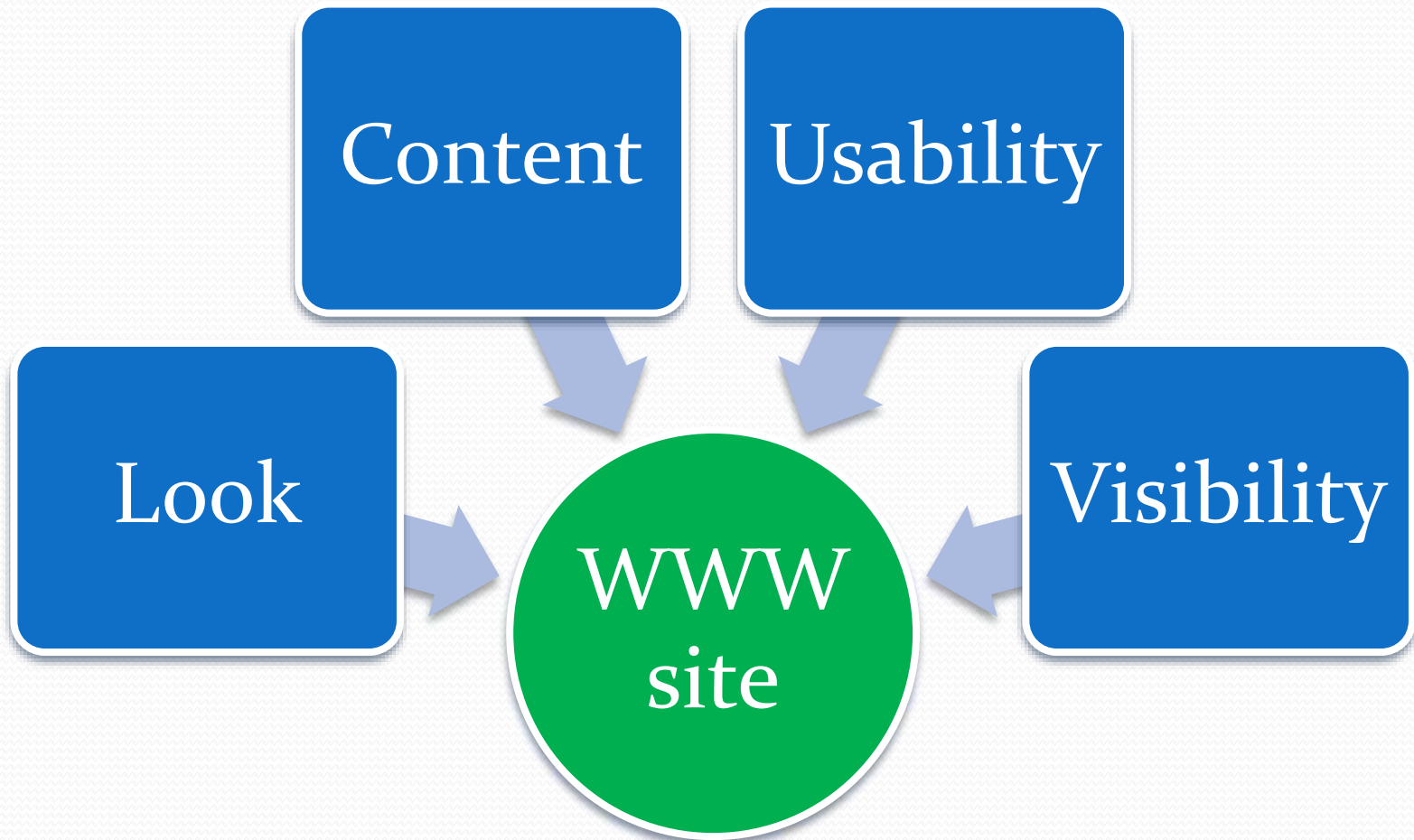
high scalability

harder implementation

price of hosting

sensitive to attacks

# How to create a good website?





# Content

It should be interesting

It should relate to the subject of the website

It should be adjusted  
the target group of recipients/customers

# Usability

Website should be user-friendly

Content should be clear

Navigation of the website  
should be easy and reliable

# Look

Graphic and text elements of the website  
should fit to each other

Layout of the whole page  
should be consistent

Website should look professional

# Visibility

The site should be easy to find  
using search engines...

... or/and through advertising/social media

# Tools

## Text editors



# Tools

## Web browser



**Safari**

Apple

MacOS, iOS



**Firefox**

Mozilla

MacOS, MS Windows, Linux OS,  
Android OS



**Chrome**

Google

MacOS, MS Windows, Linux OS,  
Android OS, Chrome OS



**Edge** new

Microsoft

MS Windows, MacOS, iOS,  
Android OS



**Opera**

Opera Software

MacOS, MS Windows, Linux OS,  
Android OS



# Publication in the Internet

All files of the website have to be upload to the server

For this purpose a FTP client is used

If the website uses database,  
we also have to configure database server...



# First HTML page

Create 'index.html' file.

Put in this file the following code:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Example</title>
  </head>
  <body>
    <p>This is an example of a simple HTML page with one paragraph.</p>
  </body>
</html>
```



Open 'index.html' file in default web browser.



# Literature

- [w3schools.com](http://w3schools.com)
- [jquery.com](http://jquery.com)
- [getbootstrap.com](http://getbootstrap.com)
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- J. Duckett, JavaScript and JQuery: Interactive Front-End Web Development, John Wiley & Sons, 2014.
- HTML, CSS & JavaScript in easy steps, In Easy Steps Limited, 2020.
- J. Lett, Bootstrap Quick Start, BootstrapCreative, 2018.