

#### IF.03.01\_BASIC WEBTECHNIQUES

HTML, CSS, Javascript

### BASIC WEBTECHNIQUES

Motivation, Overview, Basic Setup, Organizational, First Html Page

#### GOALS FOR THIS UNIT

- You have an overview of the whole course
- · You have a rough picture how things work in the web
- You have a working setup
- You know the organizational stuff about this course
- You have written a "Hello World" html page
- You know the list of projects

#### COURSE OVERVIEW

#### TOPICS

- I. Introduction
- 2. Basic html and css
- 3. Advanced html and css
- 4. Css mastership

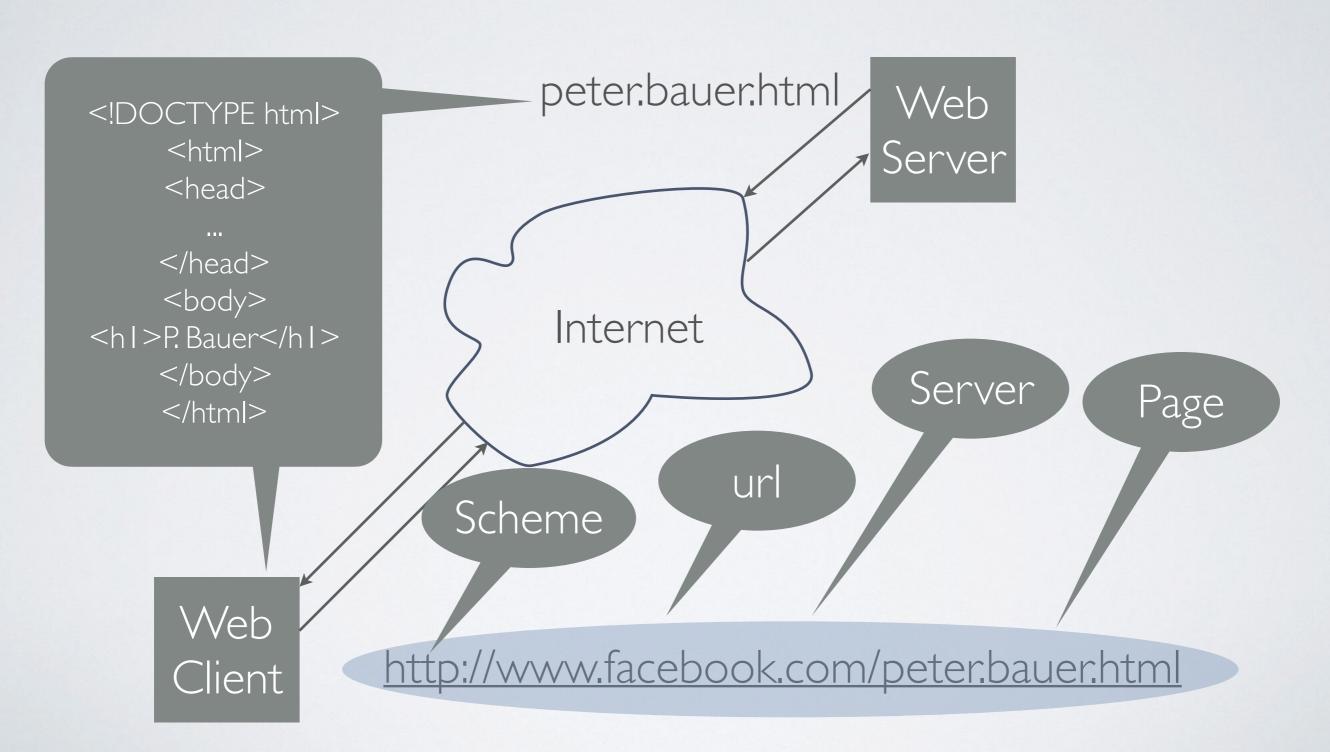
- 5. Forms and first steps in html
- 6. Introduction to JavaScript

### PRE-REQUISITES

- Good knowledge in programming
  - IF.01.02 Programming
- Knowledge in technical informatics
  - IF.01.01 TINF

# THE WORLD WIDE WEB IN ROUGH PICTURES

# THE BIG PICTURE – EXTREMELY SIMPLIFIED



# COMMON WEB SERVERS AND WEB CLIENTS





















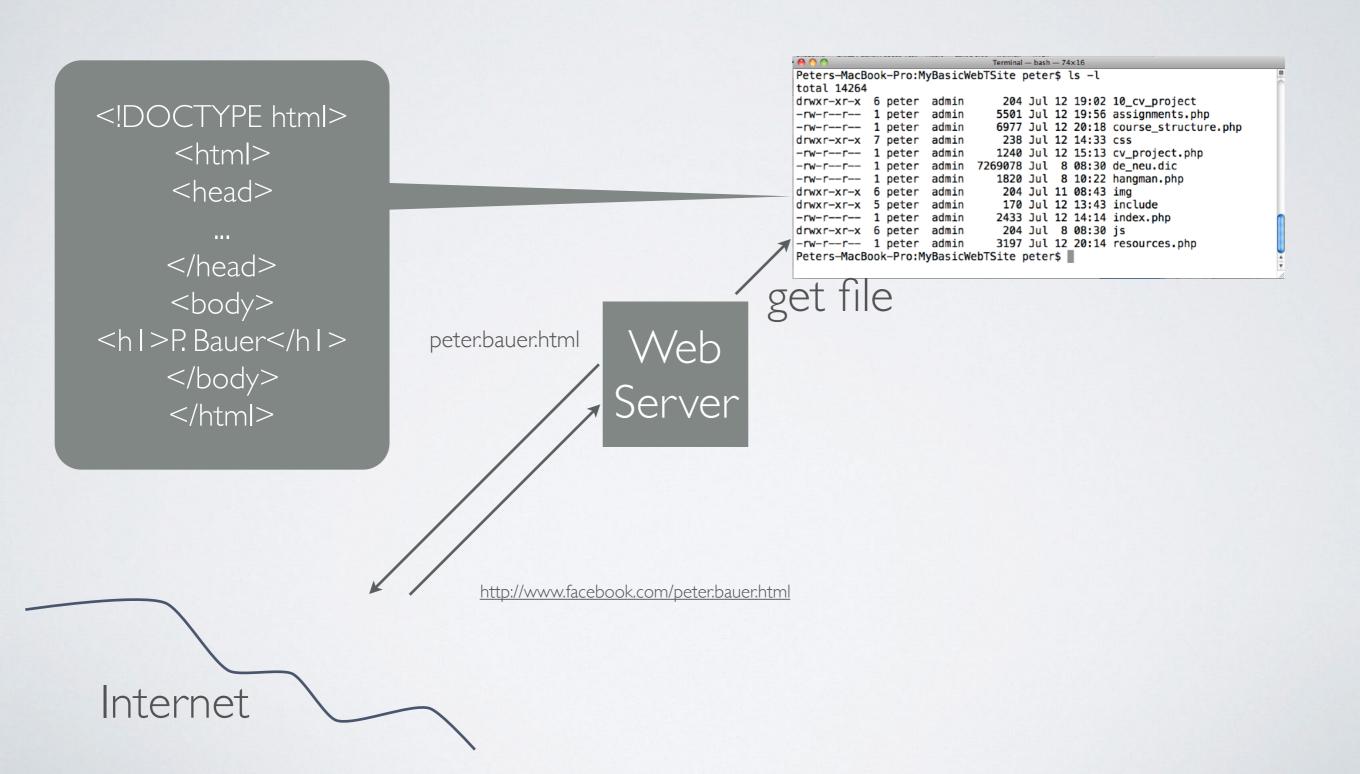




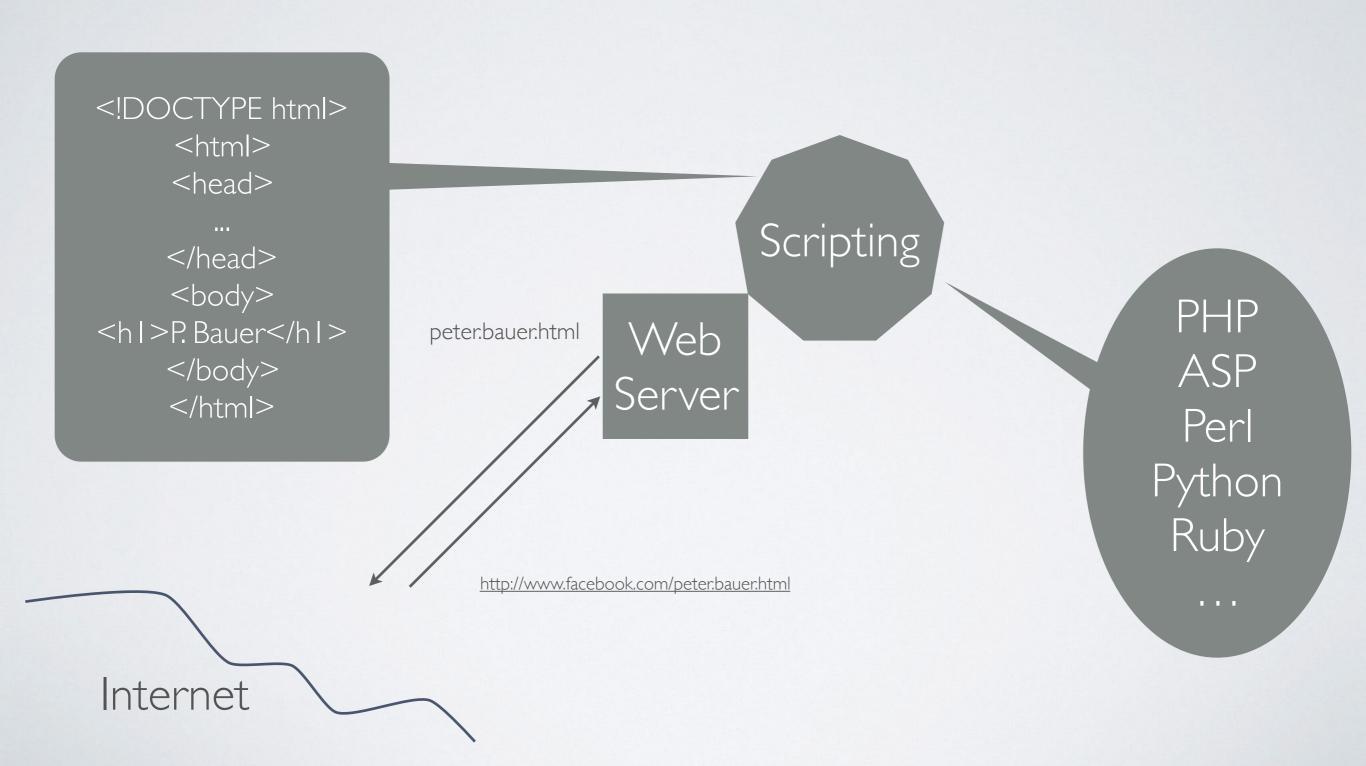




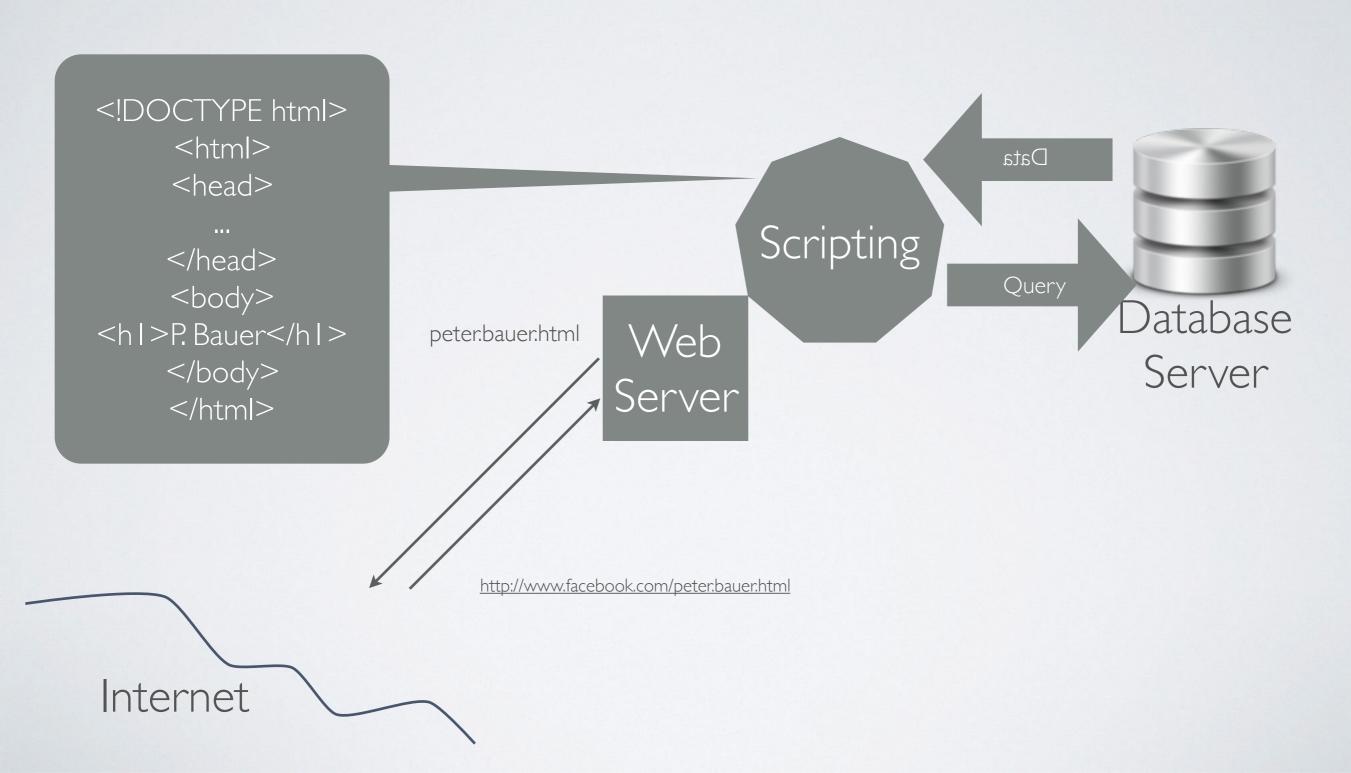
#### SERVER SIDE STATIC



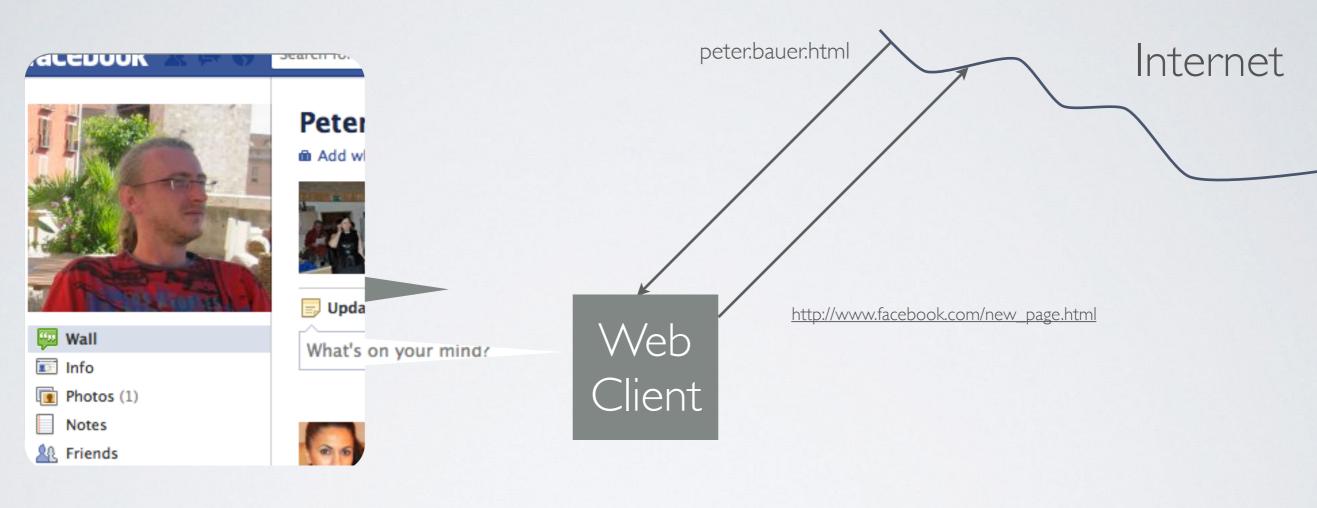
#### SERVER SIDE DYNAMIC



# SERVER SIDE DATA BASE DRIVEN



#### CLIENT SIDE



- Rendering
- Local input
   evaluation

- Animations and other fancy GUI stuff
- Requests new page

#### ADMINISTRIVIA

#### GRADING

- Your personal web site
  - In teams of two
  - Regular reviews
  - Based on coding assignments

- Several quizzes
  - Alone
  - Kahoot!
  - Based on reading assignments

#### RUBRICS

- · Give a detailed view what we expect from you
- Available on Piazza(?)
- Link the specific content of this course to the competences your grade is based on

#### STATE STANDARDS

ld	Description
BWT.3.1	Students know basic components and elements of languages for designing web pages
BWT.3.2	Students can design web pages by means of script languages, can include dynamic elements, and can create design templates

### RUBRICS - EXAMPLE

Un it	ID	Standar d ID	Advanced	2	3	4	Unsatisfactory
All	Web Knowledge	BWT.3.1	Knows all basic components of web sites and apps (web server, web client, how these components work together, http, html elements, css declarations) in detail		Knows most of the basic components of web sites and apps (web server, web client, how these components work together, http, html elements, css declarations)		Does not know the basic components of web sites and apps (web server, web client, how these components work together, http, html elements, css declarations)
2	Internal structure	BWT.3.1	HTML code is clearly structured into sections and subsections	HTML code is mostly structured. Some parts are missing this structure	HTML code is structured. Several parts are missing this structure		Most of the HTML code is without any structure.
	Scale		87 100	75 86	63 74	50 62	0 49

#### COMMUNICATION

- Moodle
  - General announcements
  - Communication about tasks and assignments
  - Enroll
    - Course name: WEBT 2AHIF Bauer 1617
    - Key:WEBT2AHIF1617
- Skype / e-mail (Bauepete / p.bauer@htl-leonding.ac.at)/Piazza?
  - Short hand communication
- GitHub

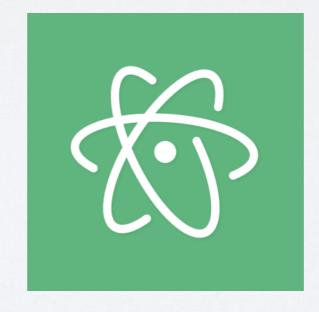
### WORKING SETUP

# MACOS, ATOM, SAFARI, GOOGLE CHROME, GITHUB











#### DEMO

- Create a new folder in Finder
- Start Atom
- · Create a "hello world" html page
  - · doctype, html, head, body, meta, title, em, strong
- Have a look into the Browser
- Download first assignment from GitHub

# THE PROJECTS

## LIST OF PROJECTS

- · A brief description of each project (I min each)
- Both by technical and language teacher
- Then start of first project assignment
  - Find project partners and choose one

# A FIRST into the SPIL PAGE To be moved into the SPIL PAGE

#### FIRST PAGE - INDEX.HTML

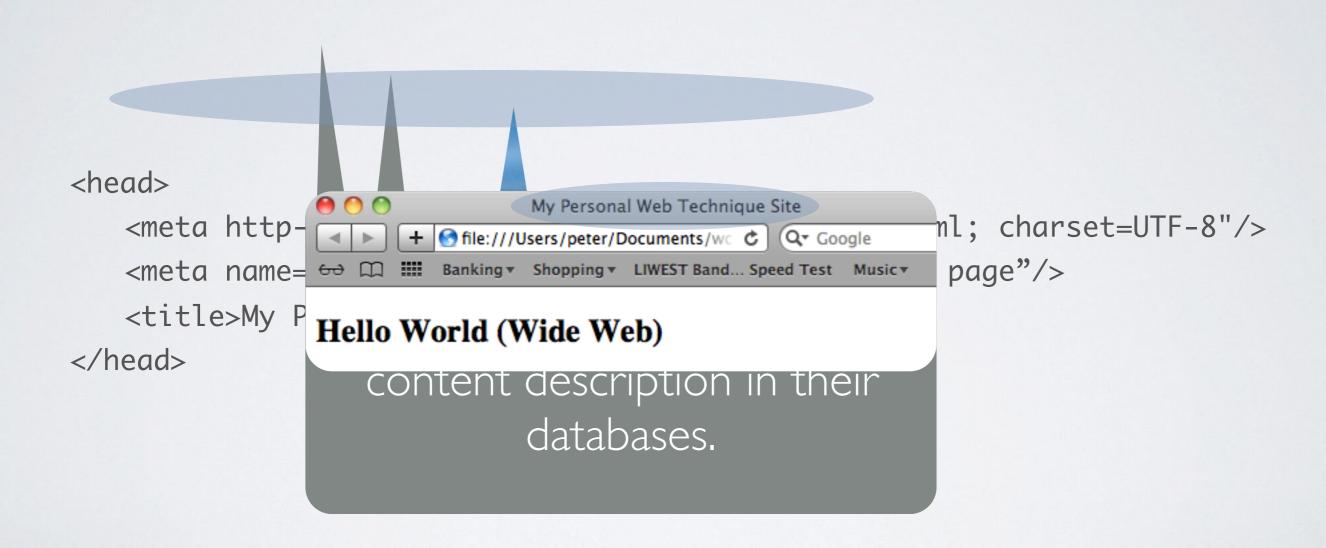
```
<!DOCTYPE html>
<html>
   <head>
       <meta http-equiv="Content-Type" content="tex elements, e.g., <html> and
       <title>My Personal Web Technique Site</tile
   </head>
   <body>
       <article>
           <h1>Hello World (Wide Web)</h1>
            <section>
               <h1>Mission</h1>
               >
                   This course is for me ....
            </section>
```

Most html tags are twofold and embrace other //L+mal > am //L > am //

The section-tag may be used to further structure your content.

Again one may define several sections on a page and sections may contain other sections.

#### THE HEAD IN DETAIL



#### THE BODY IN DETAIL

```
<body>
  <article>
     <h1>Hello World (Wide Web)</
     h1>
     <section>
        <h1>Mission</h1>
        This course is for me
        ....
     </section>
     <section>
       <h1>Personal Goals</h1>
        >
          I want to learn in this
           course ....
        </section>
  </article>
</body>
```

