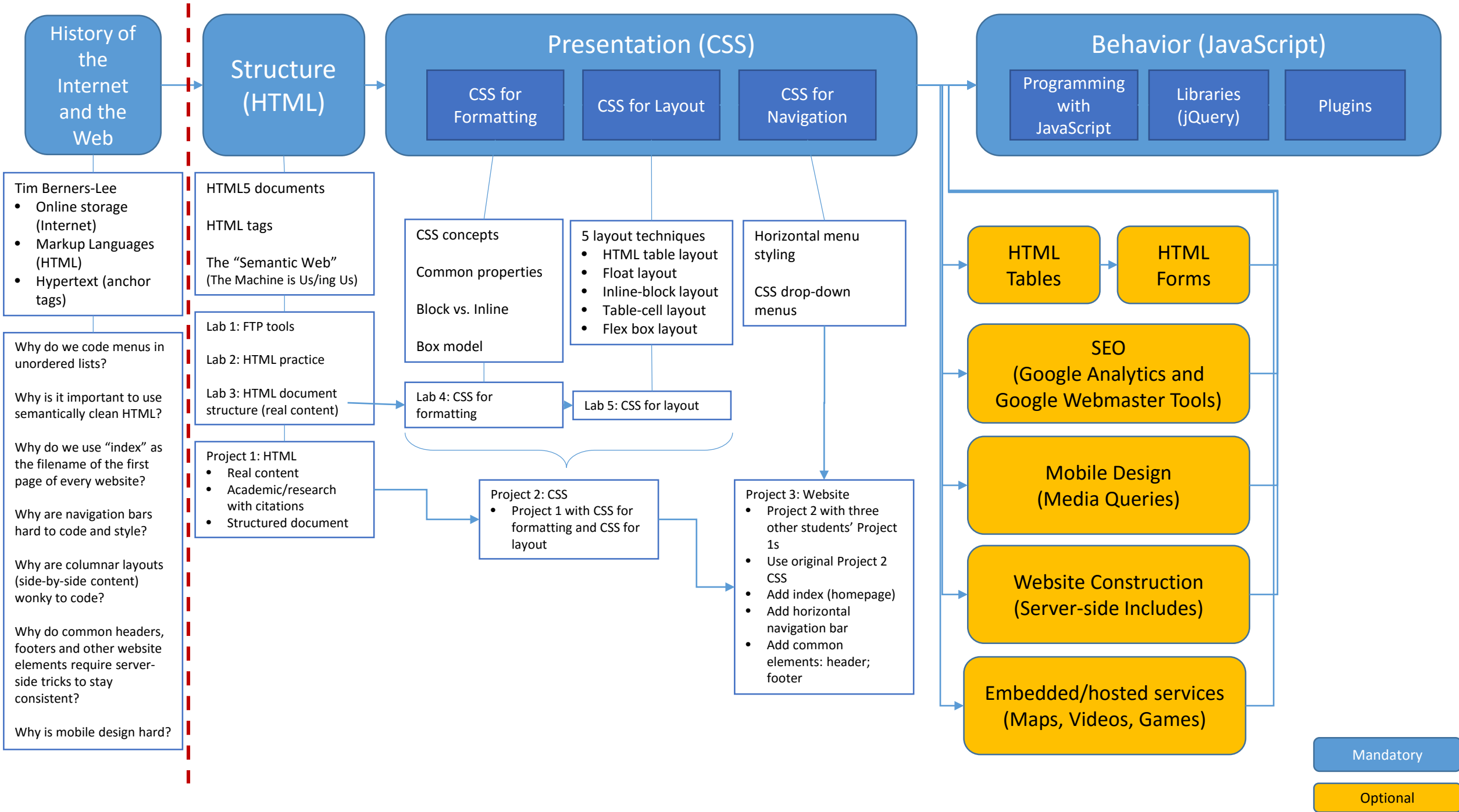


Web Design & Development

CSC 170



About You

1. Future web developers

- Industry trends
- Best practices

2. Technology majors

- Pervasiveness of the Web interface
- Relationship of the Web with IT

3. Non-technology majors

- Ability to support and maintain websites
- Rapid web presence deployment (“website builders”)
- Teamwork and management

About Professor Kostin

- Professor Kostin
robert.kostin@rochester.edu
- Visiting Professor at the University of Rochester
- ~~Lecturer at the Rochester Institute of Technology~~
- Office Hours
 - Computer Studies Building, Room 732
 - 1:30 – 2:30 PM, Tuesdays and Thursdays
- My three jobs:
 - Contract consultant: Excellus, Kodak, First Niagara Bank, Xerox, UPMC
 - Freelance developer: Google
“web developer rochester ny”
“web designer rochester ny”
 - College professor, here and at RIT

About this course

How to get an A

Learn

- Lectures and Demos
- Lab Assignments (graded)

Prove

- Projects (3)
- Exams
 - Midterm exam and practical
 - Final exam

Course Materials

- Internet connected computer
- Platform and software impartial
 - Platform: PC or Mac
 - Web browser Firefox, Chrome
 - FTP software: WinSCP or any
 - Code editor: Sublime Text or any

Lectures and Demos

- No book
 - Lectures and in-class demonstrations only
- In Blackboard...
 - PowerPoint slides available, but provide supplemental info only
 - Demo files available, but don't explain everything by themselves
- Focus, Hints, and All the Answers
 - What's important – what's *not* important
 - “Knock, knock”
 - How-Tos (lab assignment demos)
 - Pre-Exam review sessions

Projects

- 3 Projects over the course of the semester
- Each project builds on the previous
- Creativity encouraged!
- Project 1: basic webpage
 - Content based on a famous contributor to the Internet or Web
 - Goal: prove your ability to semantically markup a document
- Project 2: formatting and layout
 - Copy Project 1 as-is and add formatting and layout
 - Goal: prove your ability to enhance usability with styles and positioning
- Project 3: small website with navigation
 - Copy Project 2 as-is
 - Add three other students' project 1s
 - Add website functionality (an index page, common headers/footers, and navigation)

The Process for Submitting Labs and Projects

- Submissions via Blackboard
 - All labs and projects must be posted on the web server
 - A working link that points directly to the submitted lab or project must be posted in Blackboard
 - Note: updates on the web server do not need to be resubmitted in Blackboard if it hasn't been graded yet
- You can submit any lab or project late for *possible* grading without loss of points
 - Labs and project will only be graded IN ORDER (can't skip any lab)
 - The professor is responsible for grading on-time submissions only
 - Beware the end of the semester
- You can resubmit any lab or project a second time for *possible* re-grading without loss of points
 - Two chances only
 - TAs are only responsible for grading submissions once
 - Beware the end of the semester
- Late submissions and re-grades are graded IN ORDER only
- The Prof will provide feedback is on submitted labs and projects

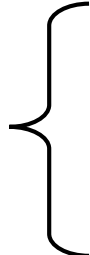
Grades

- Midterm and Final exams (30%)
 - In the middle and end of the semester: multiple-choice exams (50 to 100 randomized questions)
 - Midterm exam includes a “practical” part: write code in real time using your own notes
 - The final exam will not be cumulative
- Projects (30%)
 - 3 - over the course of the semester
 - Each builds on the previous
 - Creativity encouraged
- Lab Assignments (40%)
 - 10 – 15 labs, total (2.5 – 4.0% each)
 - “Forced practice”
 - Creativity discouraged
 - Generally: one week to finish lab assignments
 - Everything builds on the previous – so don’t fall behind

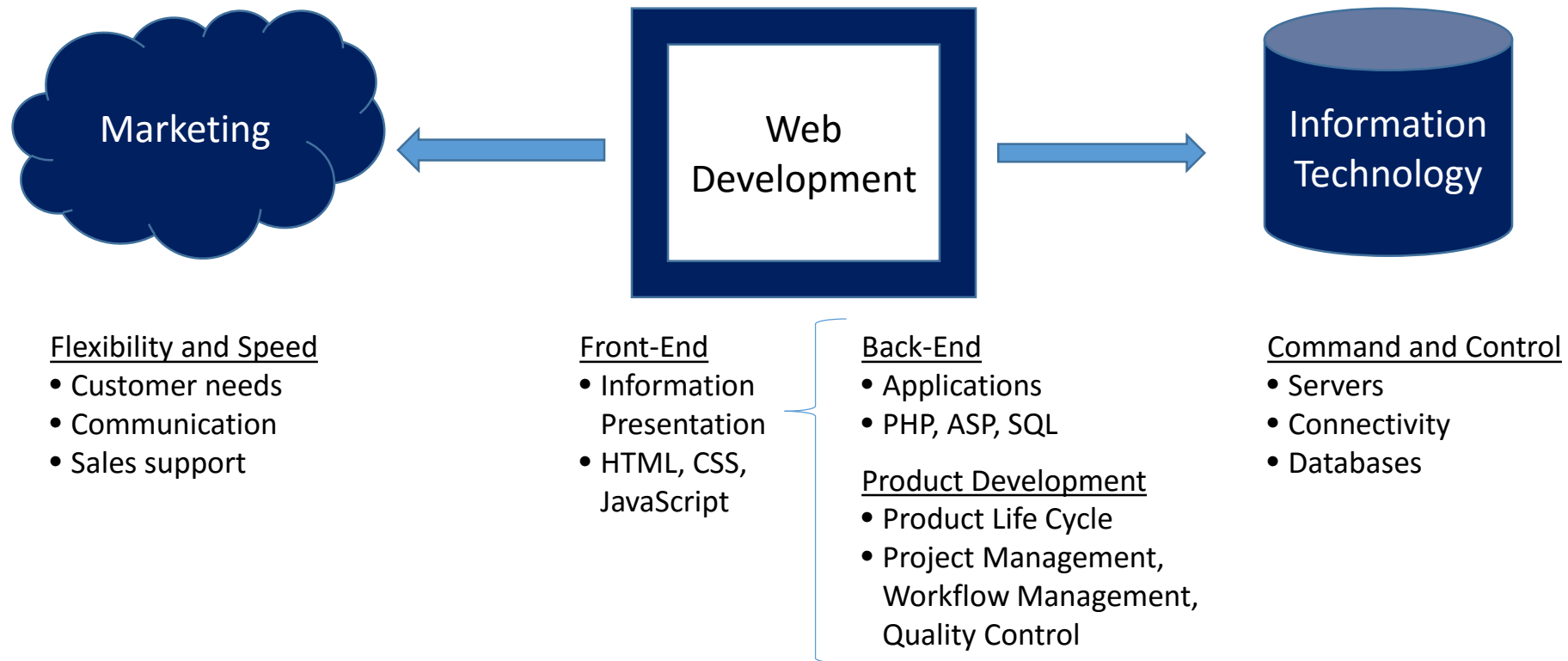
Introduction to the Web Development Industry

The technology, the industry, and the people who work it

Web Development Parts

- Domain Name
 - Third party companies
 - ICANN (Internet Corporation for Assigned Numbers & Names)
- Web server
 - Computer with server software
 - Connection to the Internet
 - HTTP, FTP
- Web pages (files and database)
 - HTML, CSS, JavaScript
 - PHP, MySQL
 - Architecture
 - Design
 - Graphics
 - Copywriting

Where is web development?



About Web Development

Marketing ← (web development) → IT or engineering

Frontend web development		Backend web development	
What you see (and interact with)		What you do	
<ul style="list-style-type: none">• Interface• Architecture, design• Usability, accessibility		<ul style="list-style-type: none">• “application”• <u>P</u>rogramming<ul style="list-style-type: none">• Variables• Conditions (if/then)• Loops• Data input, data processing, data output• E.g. Facebook, Gmail, any ecommerce site• Usually involves databases	
Client-side languages <ul style="list-style-type: none">• HTML• CSS• JavaScript		Server-side languages <ul style="list-style-type: none">• PHP• ASP.NET• Ruby• Python• MySQL	