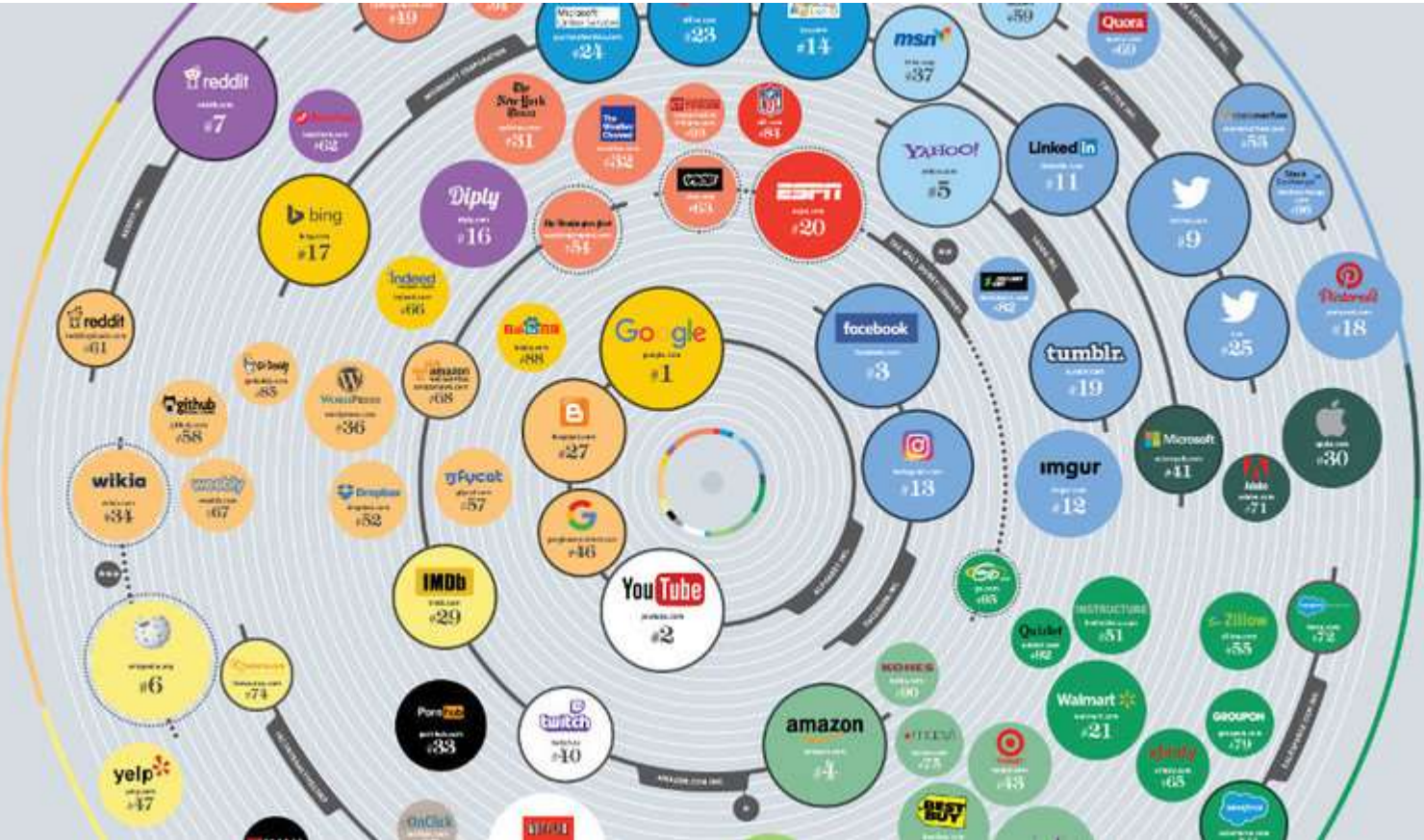# Course Overview
# Web Engineering

Qiuyan Huo 霍秋艳
qyhuo@mail.xidian.edu.cn
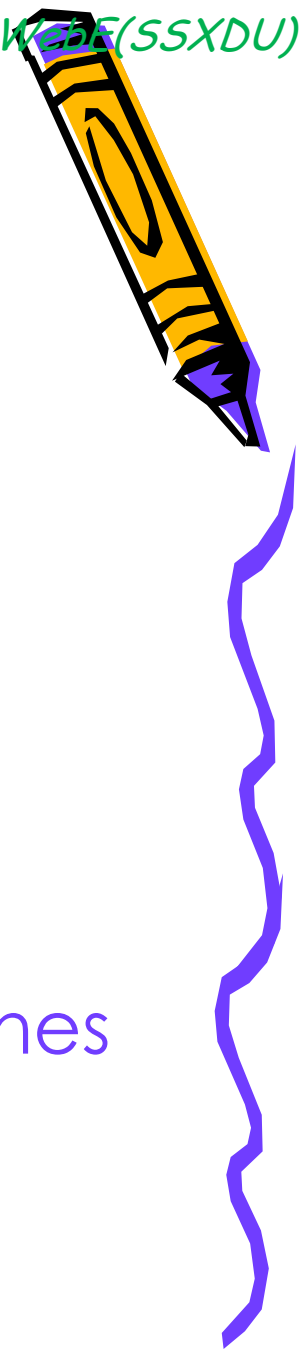Software Engineering Institute

# Website Review Time!



- tvweb360.tv
  Google.com or Bing
- CNN.com
- Amazon.com
- Sourceforge.net

- JoeCartoon.com
- HarryPotter.com see also fox.com/24/
- Xidian.edu.cn
- HTML spec at w3.org/TR/html

# What are we talking about?

- User experience
- Purpose of a site
- Target audience
- Presentation
- Accessibility
- Evolution
- Business model
- ......
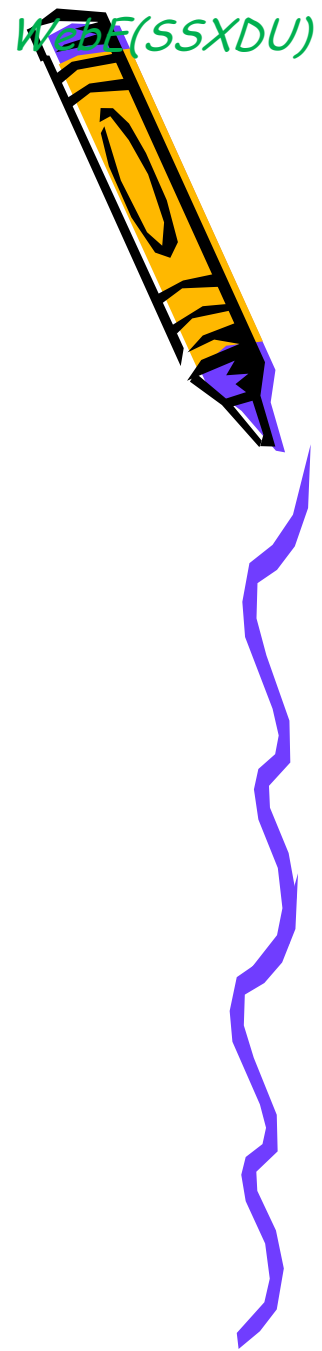- Systematic and quantifiable approaches to build Web applications.

# This class is not only about:

- Details of HTML, CSS
- Programming in JavaScript, ActiveX, JSF, PHP etc.
- Web server, Servlet engine set up
- Human interface engineering
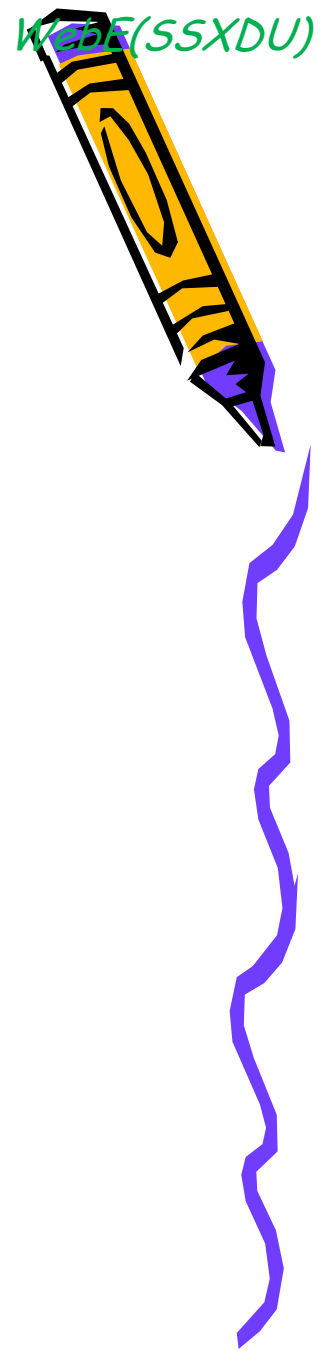- Internet Explorer (pro or con)

# Recommended Literature

- Architecture of the World Wide Web
  - http://w3.org/TR/webarch/
- History of the World Wide Web
  - http://w3.org/History.html
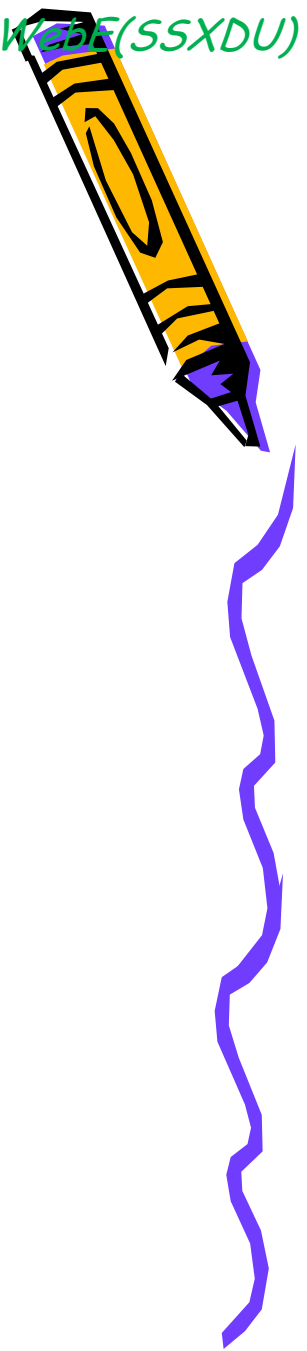- ……


- **Use the source!**

# Format

- Presentations
- *Website reviews*
- Discussion encouraged
- Practical exercises: Tasks
  - Searching for real-world examples
  - Developing a small-sized project
  - Creating short pages, stylesheets, code
  - Hands-on protocol use
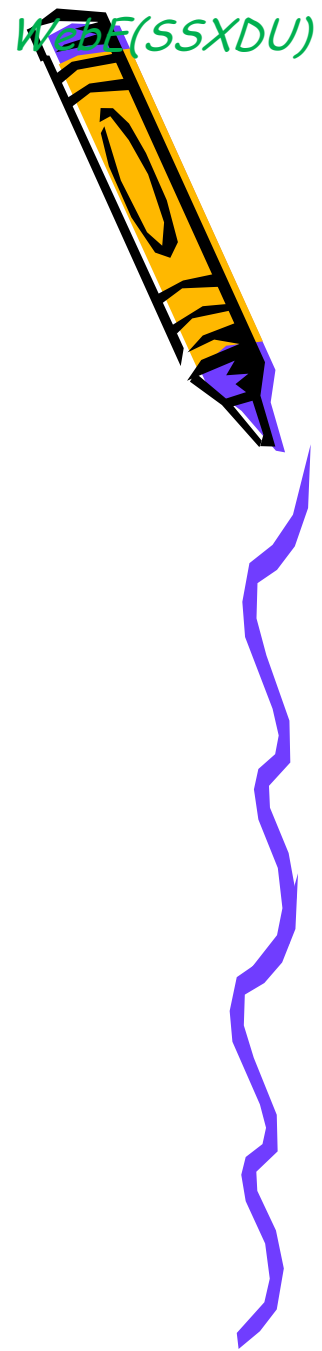  - ......
- Final exam

# Evaluation

- Personal:20 points
  - *Attendance & presentation & task*
- Project 30 points
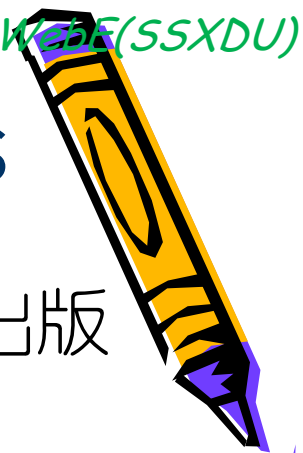- Exam 50 points
- Total 100 points

# Tasks

- Personal Task: 自己的观点、学术论文的格式
  - MS Word, PDF
  - By Email: qyhuo@mail.xidian.edu.cn
  - Credits come from essays
    - Points for argumentation, depth & breadth
- Project
  - Documents
    - wikipages: Screenshots usually not necessary
  - Presentation(s)
  - Pages and Code
  - Github online repository
  - Online Running (localhost will be fine)
- Credits come from documents or pages or code or presentations or running effect
  - Depth & breadth: engineering, techs, effects

# Text book and reference books

- 霍秋艳:《Web工程—理论与实践》,清华出版社,2011年9月。

- Web应用开发前后台技术栈相关资源

- Gerti Kappel, Birgit Pröll, Siegfried Reich, Werner Retschitzegger: Web Engineering: The Discipline of Systematic Development of Web Applications, 1st Edition, John Wiley & Sons, June 2006, ISBN 0-470-01554-3.

- Roger S. Pressman: Web Engineering: A Practitioner's Approach, 1st Edition, McGraw-Hill Higher Education, 2008. 《Web工程：实践者的研究方法》, 机械工业出版社, 2009
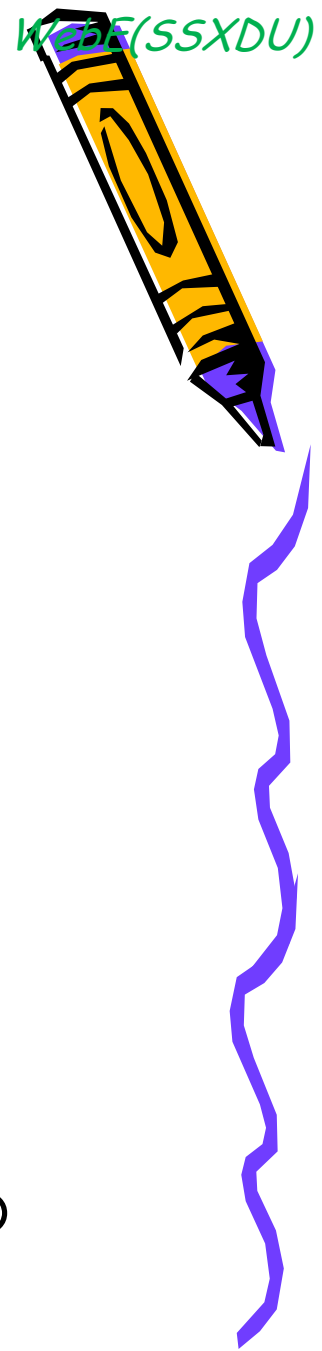
# Course Outline

- Web工程概述
- Web项目开发过程和方法
- Web应用开发项目
  - 需求工程
  - 建模
  - 架构
  - 设计
  - 开发与部署
  - 测试
  - 运行和维护
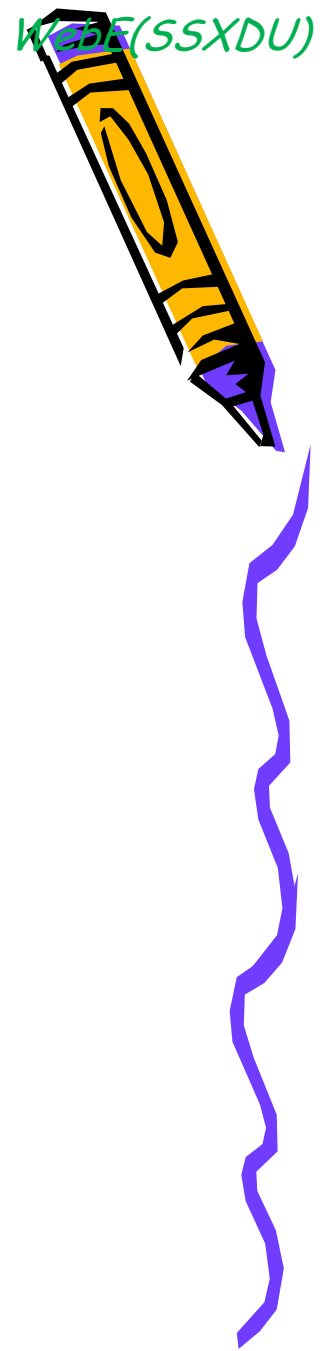- Web项目管理
- Web应用的性能、可用性、安全性
- Web工程的发展

# Task1– Personal

- 撰写一篇小论文
  - 格式：学术论文（西电学报论文格式）
  - 内容：和Web有关即可
    - 名称：自拟
    - 例如：分析对比你喜欢和不喜欢的Web应用。
      - 喜欢
        » Apart from what we've seen in class
        » How did you find it?
        » What function does it has
      - 最不喜欢的
        » From those you need to use
        » Why do you need to use it?
        » What can you do to change the site?
      - 如何好与不好
      - Every coin has two sides
- In your opinion, how to build a Web application?

Questions?

Coming Up…

Web工程概述