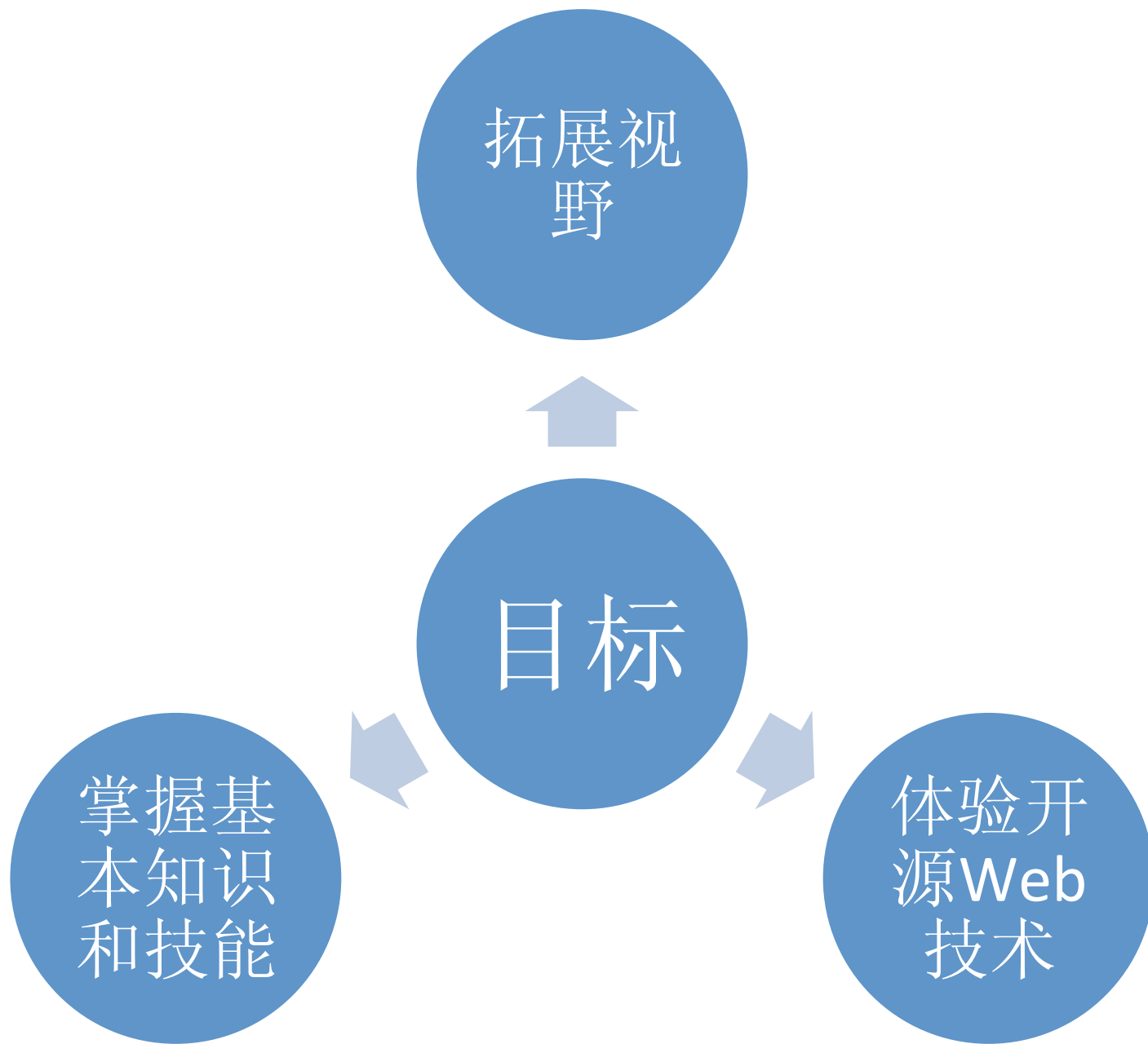
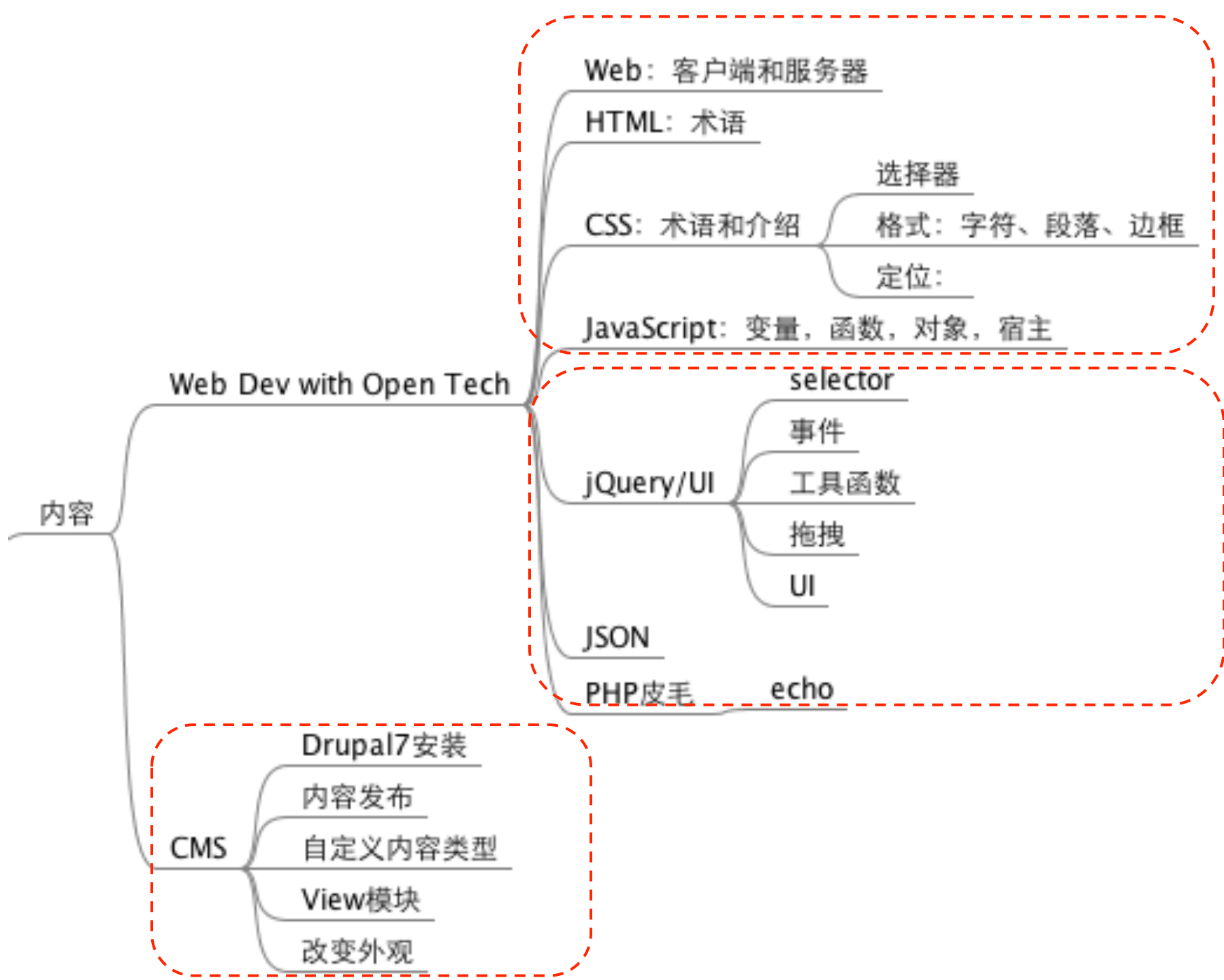


Web Dev with Open Tech

张志楨

zhangzhizhen@bnu.edu.cn





软件工具

- WAMP
 - Apache, PHP, MySQL
 - <http://www.wampserver.com/>
- NetBeans – PHP Version
 - 开发IDE
- Firefox + Firebug
 - Js运行、调试；HTML/CSS显示、结构探查
- jQuery, jQuery UI
 - Js类库，Web桌面
- JSON
 - 客户端服务器交换数据格式

www.mozilla.org/en-US/firefox/features/

DESKTOP MOBILE RELEASES ADD-ONS SUPPORT ABOUT mozilla

 mozilla
Firefox

Firefox Features

Bringing together all kinds of awesomeness to make browsing better for you.

 **Firefox** Free Download
Systems & Languages | What's New | Privacy

Browsing Made Easy | High Performance | Advanced Security | Powerful Personalization | The Cutting Edge | Universal Access

<http://www.mozilla.org/en-US/firefox/features/>

<https://addons.mozilla.org/en-US/firefox/addon/firebug/>

Firefox wamp download - Google 搜索 Firebug
getfirebug.com

What is Firebug? Introduction and Features
Documentation FAQ and Wiki
Community Discussion forums and lists
Get Involved Hack the code, create extensions

Firebug

Web Development Evolved.

Install Firebug
100% free and open source
[Other Versions](#) [Firebug Lite](#) [Extensions](#)

The most popular and powerful web development tool

- Inspect HTML and modify style and layout in real-time
- Use the most advanced JavaScript debugger available for any browser
- Accurately analyze network usage and performance
- Extend Firebug and add features to make Firebug even more powerful
- Get the information you need to get it done with Firebug.

[More Features >>](#)

Introduction to Firebug
Firebug pyroentomologist Rob Campbell gives a quick introduction to Firebug.
[Watch now >](#)
[More Screencasts >](#)

Inspect
Pinpoint an element in a webpage with ease and precision.

Log
Send messages to the console direct from your webpage through Javascript.

Profile
Measure your Javascript performance in the Console's Profiler.

Debug
Step-by-step interactive debugging in a visual environment.

Analyze
Look at detailed measurements of your site's network activity.

Layout
Tweak and position HTML elements with CSS and the Layout panels.

Recent news **Links and Elsewhere**

<http://getfirebug.com/>



NetBeans IDE 7.1.2 下载

[7.1.1](#) | [7.1.2](#) | [7.2 Beta](#) | [开发版](#) | [早期版](#)

电子邮件地址 (可选):
订阅新闻邮件: 每月 每周
 NetBeans 可使用此地址联系我

语言: 平台:

请注意: 在此平台上不支持变成灰色的技术。

NetBeans IDE 下载包

所支持的技术 *	Java SE	Java EE	C/C++	PHP	All
NetBeans 平台 SDK	•	•			•
Java SE	•	•			•
Java FX	•	•			•
Java EE		•			•
Java ME					•
Java Card™ 3 Connected					•
C/C++			•		•
Groovy					•
PHP				•	•
绑定的服务器					
GlassFish Server Open Source Edition 3.1.2		•			•
Apache Tomcat 7.0.22		•			•
	<input type="button" value="下载"/>	<input type="button" value="下载"/>	<input type="button" value="下载"/>	<input type="button" value="下载"/>	<input type="button" value="下载"/>
	免费, 73 MB	免费, 167 MB	免费, 49 MB	免费, 47 MB	免费, 257 MB

* 您可以稍后通过 IDE 插件管理器 (工具|插件) 添加或者删除软件包。

重要的法律信息:

<http://www.netbeans.com/downloads/index.html>

为什么是Web

- 浏览器
 - 非吴下阿蒙矣
 - 高性能Js引擎
 - CSS
 - Ajax
 - 无处不在
 - 不同OS
 - 桌面和移动





FPWAP.COM
Google ANDROID

jQuery Mobile: Touch-Optimized Web Framework for Smartphones & Tablets

A unified, HTML5-based user interface system for all popular mobile device platforms, built on the rock-solid jQuery and jQuery UI foundation. Its lightweight code is built with progressive enhancement, and has a flexible, easily themeable design.

[Latest stable version - 1.1.0](#)

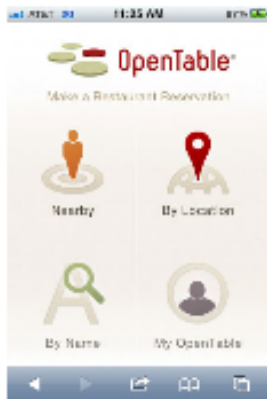
[Legacy version - 1.0.1](#)



Seriously cross-platform with HTML5

jQuery mobile framework takes the "write less, do more" mantra to the next level: Instead of writing unique apps for each mobile device or OS, the jQuery mobile framework allows you to design a single highly-branded web site or application that will work on all popular smartphone, tablet, and desktop platforms. [Device support](#)





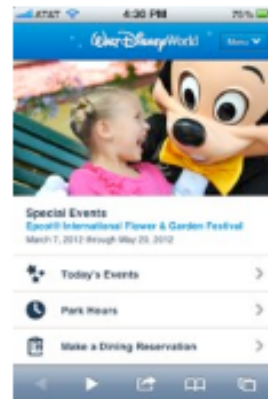
OpenTable



Ikea Sweden



Khan Academy



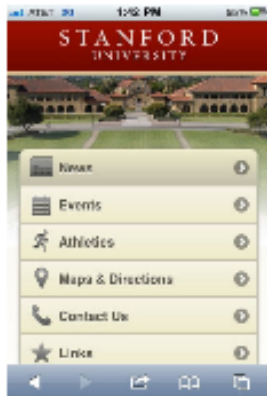
Disney World



Slideshare



Box.net



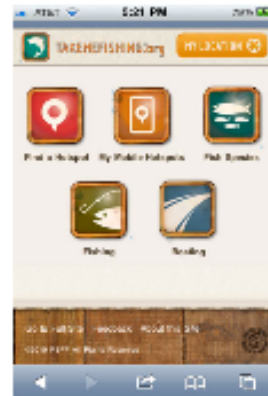
Stanford



American Century



Rugby World Cup



Take Me Fishing

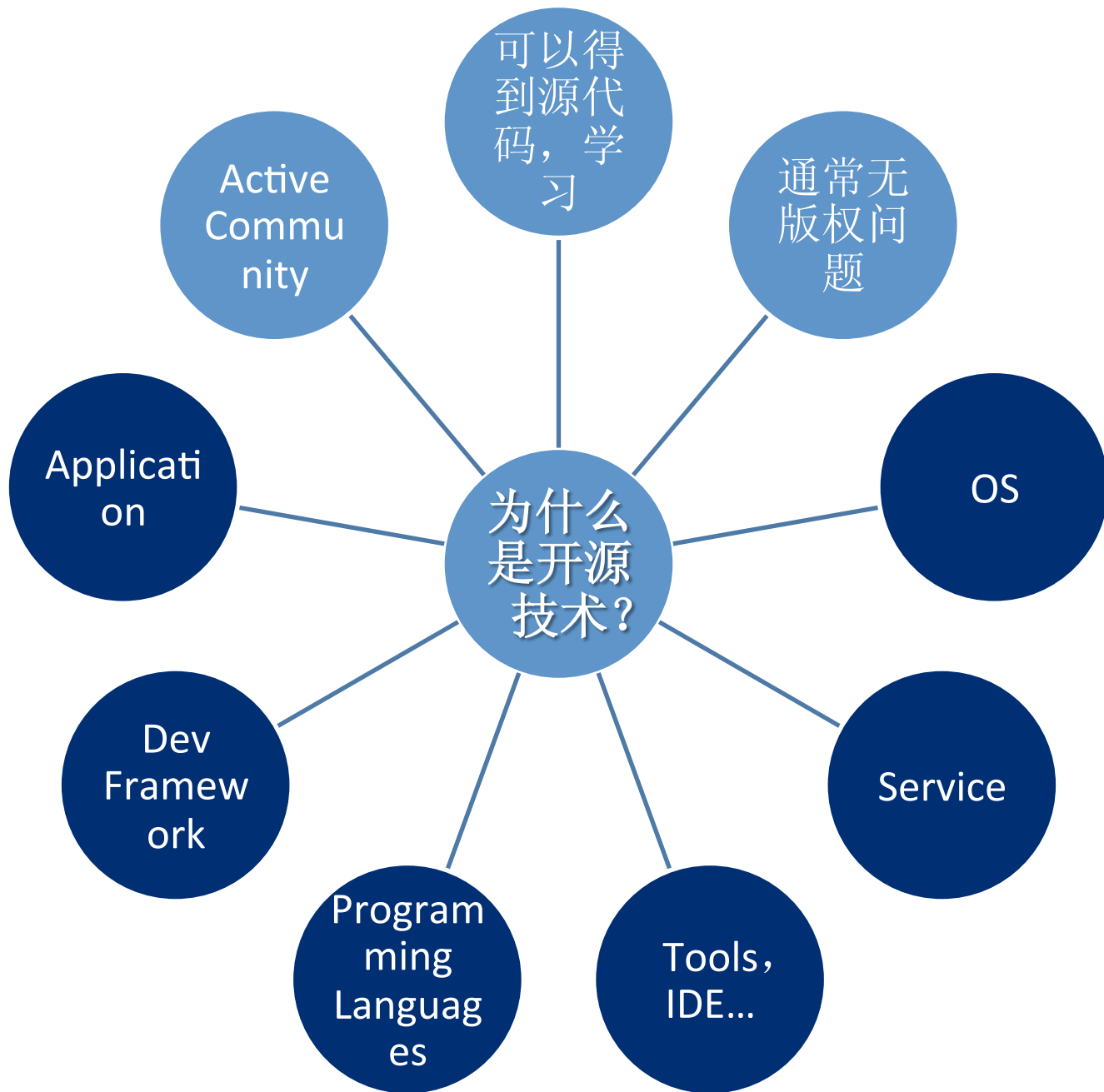


Ryland Homes



Moulin Rouge

<http://jquerymobile.com/resources/>



Web

the browser send a Url



Client

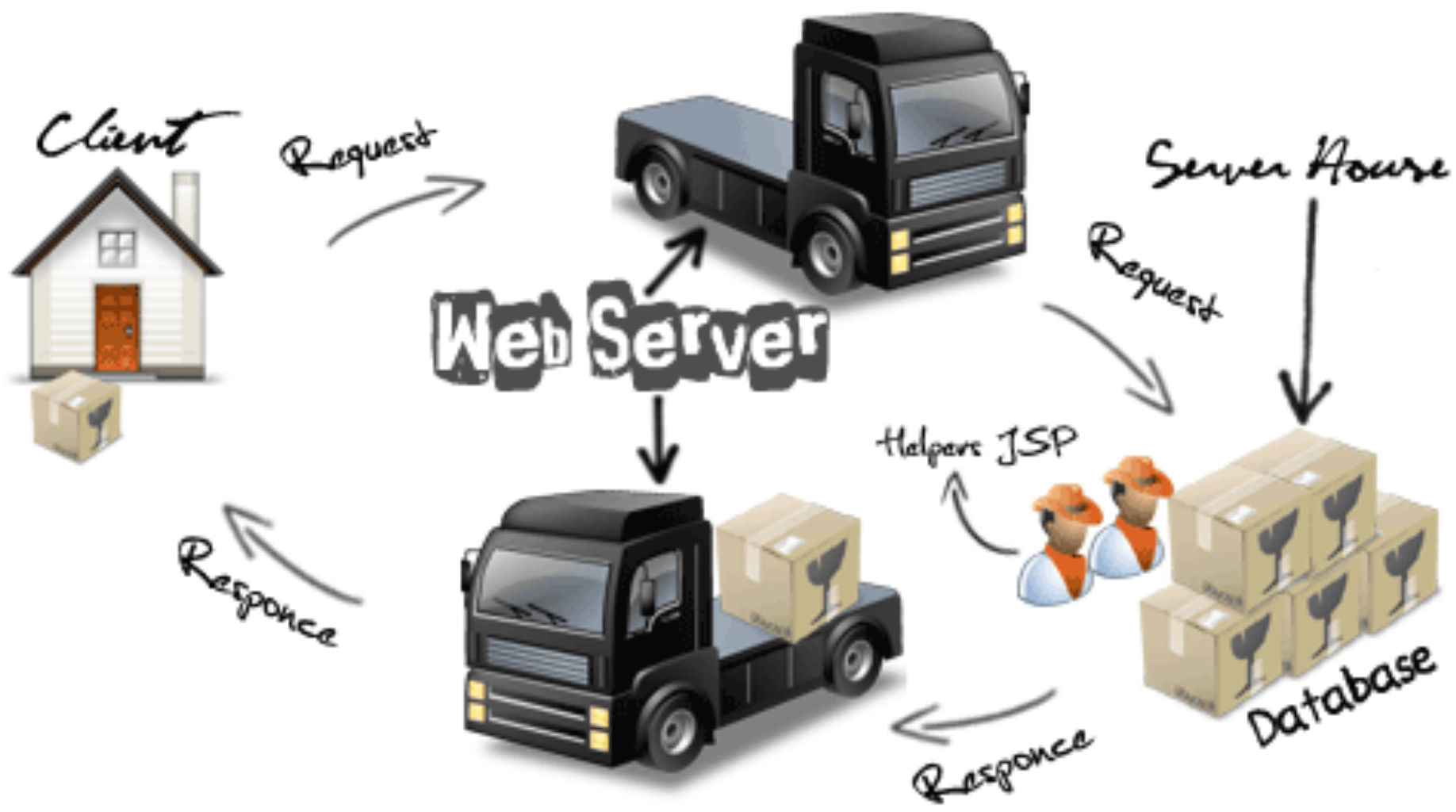


the server send a
html page



Server





URL

<http://www.123.com:80/dir1/page1.php?id=30&name=zzz>

请求-响应：成功

GET www.bnu.edu.cn 200 OK bnu.edu.cn 50.8 KB 202.112.80.241:80

头信息 响应 缓存 HTML

响应头信息

格式化头信息

```
HTTP/1.1 200 OK
Date: Fri, 25 May 2012 06:29:50 GMT
Server: Apache/2.2.6 (Unix) mod_jk/1.2.14
Last-Modified: Fri, 25 May 2012 03:49:31 GMT
Etag: "473180a-cb15-417aa8c0"
Accept-Ranges: bytes
Content-Length: 51989
Content-Type: text/html
Connection: Keep-alive
Keep-Alive: timeout=15, max=100
Via: 1.1 ID-0003011067773044 uproxy-3
```

请求头信息

格式化头信息

```
GET / HTTP/1.1
Host: www.bnu.edu.cn
User-Agent: Mozilla/5.0 (Windows NT 6.1; rv:12.0) Gecko/20100101 Firefox/12.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-cn,zh;q=0.8,en-us;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Cookie: __utma=104173139.655410221.1336724609.1336724609.1337924191.2; __utmz=104173139.1336724609.1.1.utmcsr=(direct)|utmccr=
DNT: 1
Connection: keep-alive
If-Modified-Since: Fri, 25 May 2012 02:08:07 GMT
If-None-Match: "3f958a0-cb15-d6d82fc0"
```

请求-响应：失败

GET 999

404 Not Found

bnu.edu.cn

201 B 202.112.80.241:80

头信息 响应 缓存 HTML

响应头信息

格式化头信息

```
HTTP/1.1 404 Not Found
Date: Fri, 25 May 2012 04:46:59 GMT
Server: Apache/2.2.6 (Unix) mod_jk/1.2.14
Content-Length: 201
Content-Type: text/html; charset=iso-8859-1
Connection: Keep-alive
Keep-Alive: timeout=15, max=100
Via: 1.1 ID=0003011067773044 uproxy-5
```

请求头信息

格式化头信息

```
GET /999 HTTP/1.1
Host: www.bnu.edu.cn
User-Agent: Mozilla/5.0 (Windows NT 6.1; rv:12.0) Gecko/20100101 Firefox/12.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-cn,zh;q=0.8,en-us;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Cookie: __utma=104173139.655410221.1336724609.1336724609.1337924191.2; __utmz=104173139.1336724609.1.1.utmcsr=(direct)|
DNT: 1
Connection: keep-alive
```

HTTP POST

POST /sn/index.php HTTP/1.1

Accept: */*

Accept-Language: zh-cn

host: localhost

Content-Type: application/x-www-form-urlencoded

Content-Length: 12

Connection:close

sn=123&n=asa

活动1： 安装Firefox和Firebug

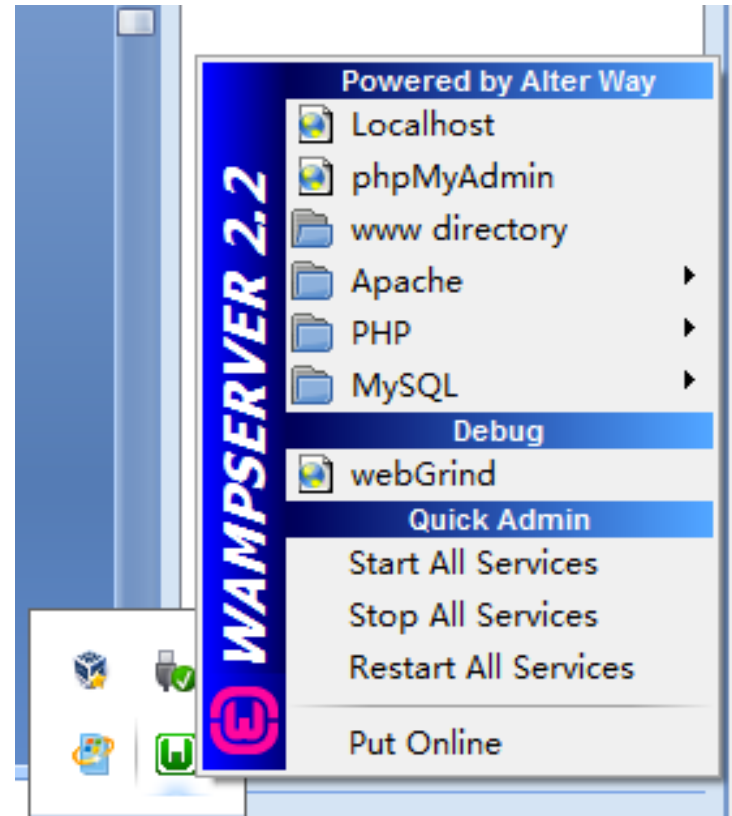
- Firefox Setup 12.0.exe
- firebug-1.9.2-fx.xpi

- 用Firebug查看师大主页HTML结构
- 查看HTTP请求和响应消息

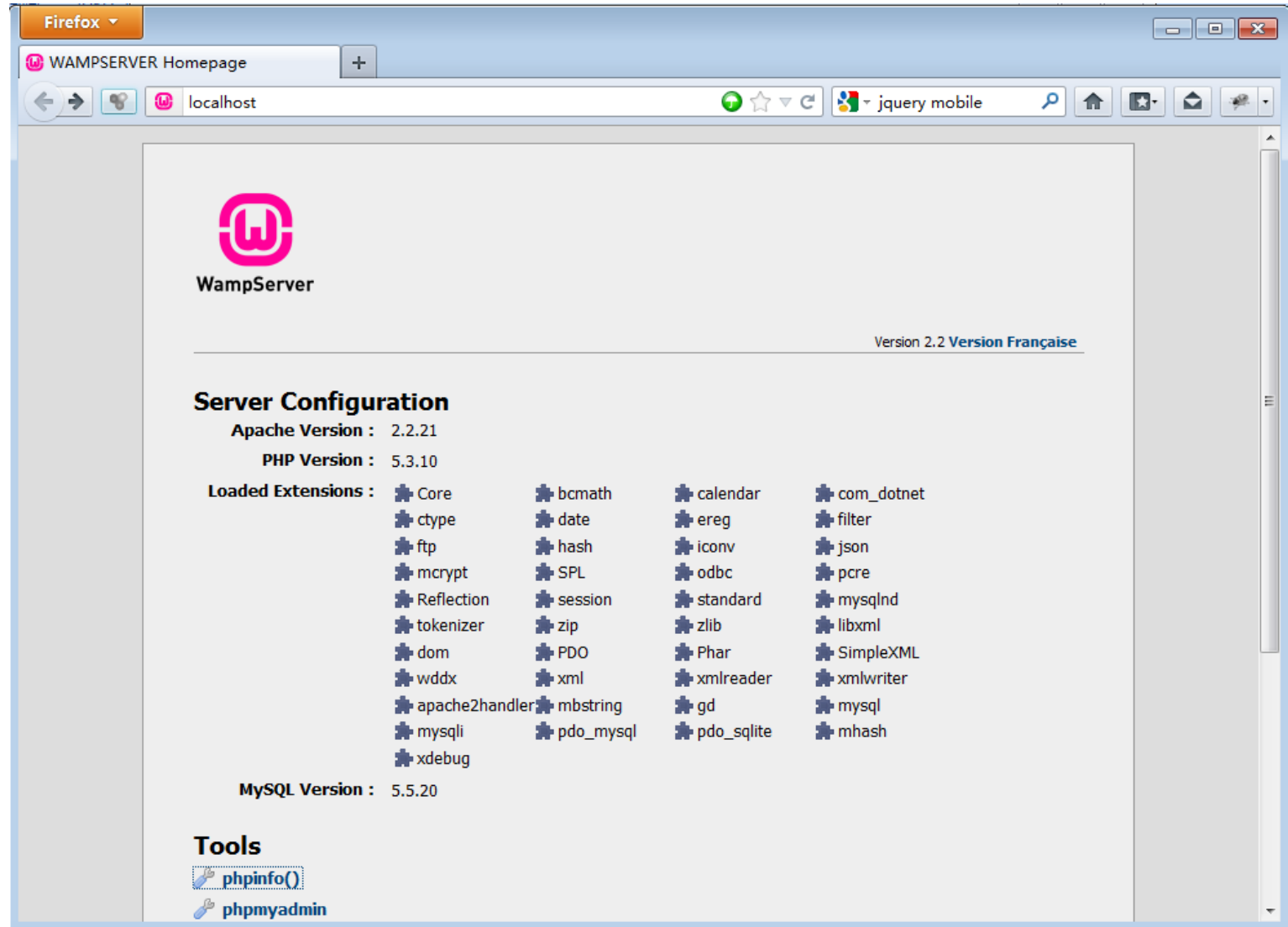
活动2： 安装WAMP

- 1 安装
 - wampserver2.2d-x32.exe
- 2 设置为online
- 3 查看网页、 www root

- 安装的软件
 - Apache – Web服务器
 - PHP – 应用服务器？
 - MySQL – 数据库服务器
 - phpmyadmin – 一个Web应用， 管理数据库



活动2： 安装成功的标志1




Firefox

WAMPSEVER Homepage

localhost

jquery mobile



WampServer

Version 2.2 [Version Française](#)

Server Configuration

Apache Version : 2.2.21


PHP Version : 5.3.10


Loaded Extensions :

Core	bcmath	calendar	com_dotnet
ctype	date	ereg	filter
ftp	hash	iconv	json
mcrypt	SPL	odbc	pcre
Reflection	session	standard	mysqlnd
tokenizer	zip	zlib	libxml
dom	PDO	Phar	SimpleXML
wddx	xml	xmlreader	xmlwriter
apache2handler	mbstring	gd	mysql
mysqli	pdo_mysql	pdo_sqlite	mhash
xdebug			

MySQL Version : 5.5.20

Tools

 [phpinfo\(\)](#)

 [phpmyadmin](#)

活动2： 安装成功的标志2



HTML

HTML

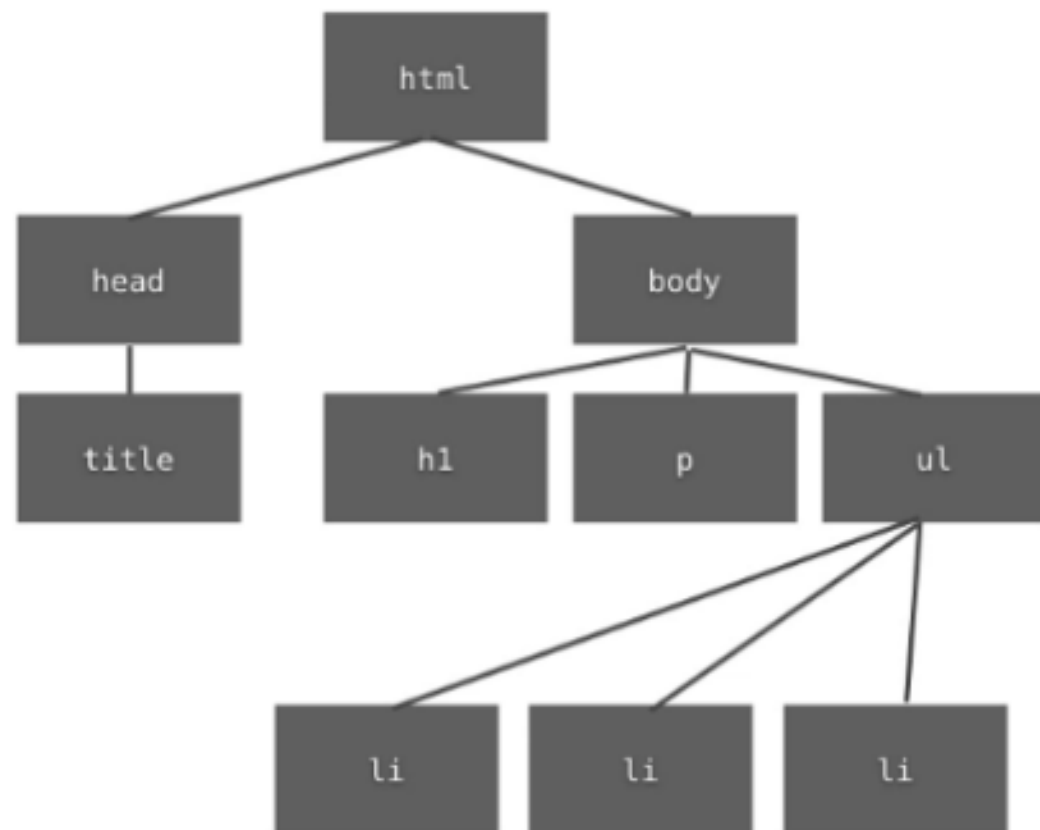
- HTML/XHTML/HTML5
 - 结构化，规范化，纯文本文件
 - “结构”（外观？行为？）
- 一些术语
 - Well-formatted
 - 节点
 - 元素节点
 - 属性节点
 - 文本节点

```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD HTML
2 <html>
3     <head>
4         <title>Example</title>
5         <link href="screen.css" rel="sty
6     </head>
7     <body>
8         <h1>
9             <a href="/">Header</a>
10        </h1>
11        <ul id="nav">
12            <li>
13                <a href="one/">One</a>
14            </li>
15            <li>
16                <a href="two/">Two</a>
17            </li>
```

```
<html>
  <head>
    <title>About JavaScript</title>
  </head>
  <body>
    <h1>Learning JavaScript</h1>
    <p>JavaScript is: </p>
    <ul>
      <li>a language that runs in the browser</li>
      <li>simple, but powerful</li>
      <li>misunderstood</li>
    </ul>
  </body>
</html>
```

```
<html>
  <head>
    <title>About JavaScript</title>
  </head>
  <body>
    <h1>Learning JavaScript</h1>
    <p>JavaScript is: </p>
    <ul>
      <li>a language that runs in the browser</li>
      <li>simple, but powerful</li>
      <li>misunderstood</li>
    </ul>
  </body>
</html>
```

```
<html>
<head>
  <title>About JavaScript </title>
</head>
<body>
  <h1>Learning JavaScript</h1>
  <p>JavaScript is: </p>
  <ul>
    <li>a language that runs in the browser</li>
    <li>simple, but powerful</li>
    <li>misunderstood</li>
  </ul>
</body>
</html>
```



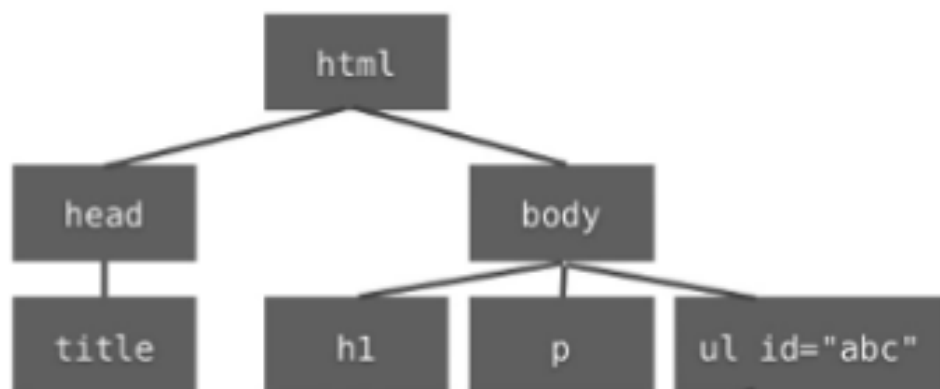
Document Object Model (DOM)

web page

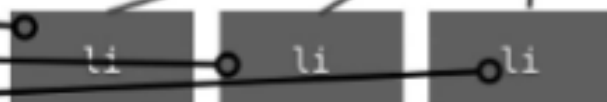
pieces

agreed-upon
set of terms

```
var myListItems = document.getElementsByTagName("li");
```



0	○
1	○
2	○



myListItems

HTML元素属性

```
<a id=""  
    class=""  
    style=""  
    href=""  
    target="">
```

BNU

```
</a>
```


HTML标签

- script style
- p
- h1 ... h5
- ul ol li
- table tr td th tbody thead
- div
- span
- hr
- br
- font
- b strong
- i em
- audio
- video
- embed

<http://www.w3school.com.cn/html/index.asp>

css

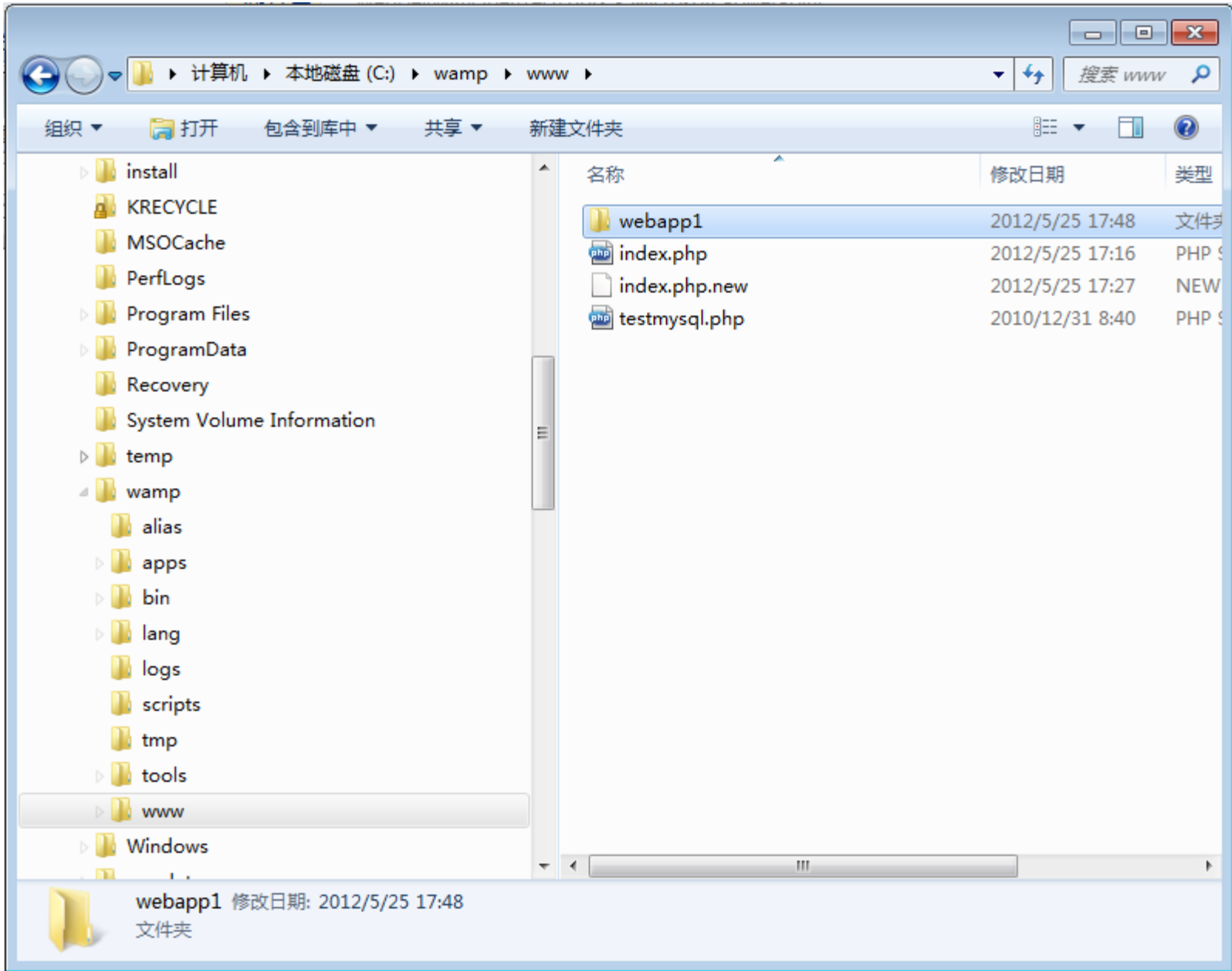
CSS

- CSS代码存放在哪儿？
- 语法：选择器{属性:属性值;...} /**/
- 基本格式化：字符，段落，边框，背景
- padding和margin
- position

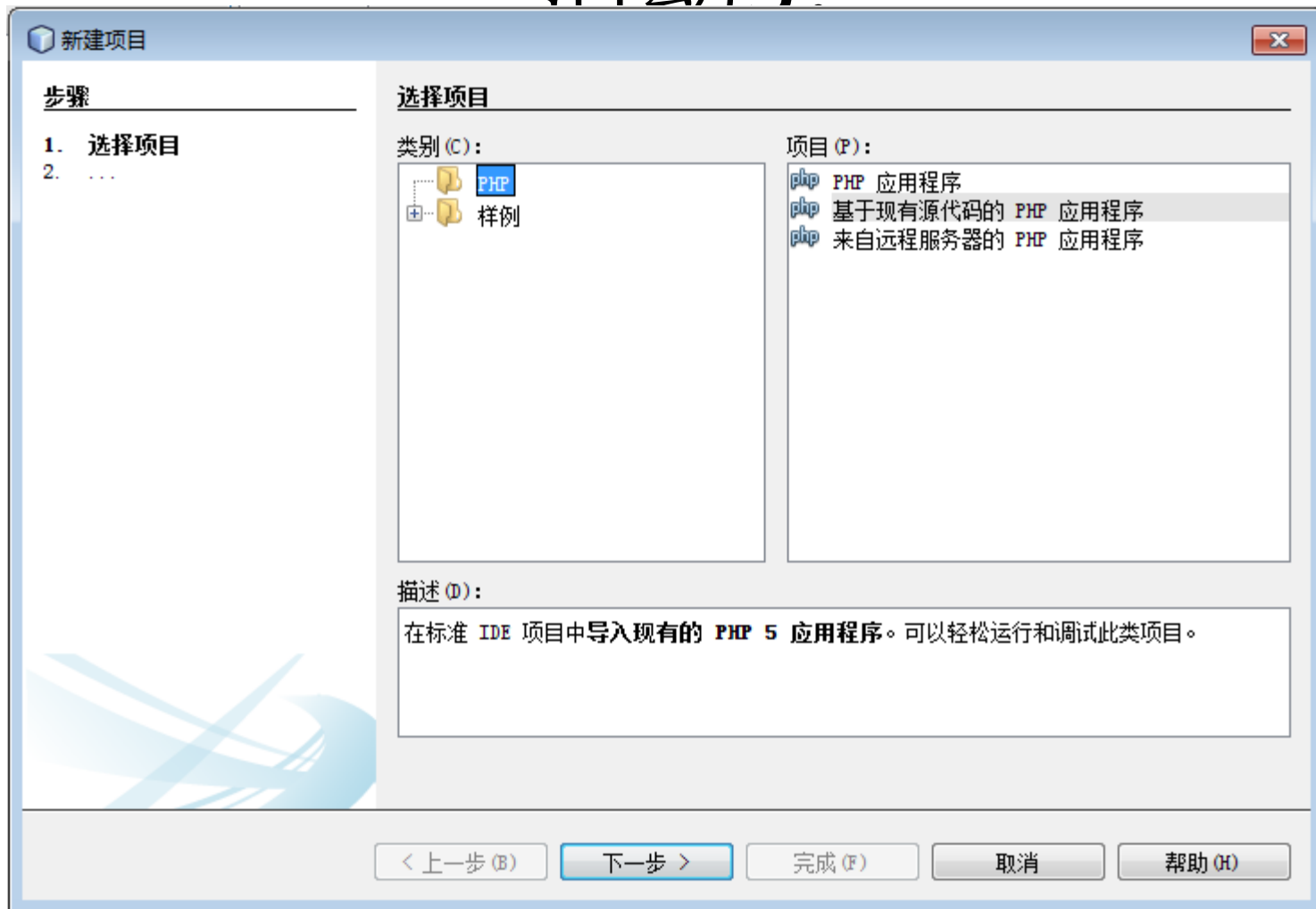
- http://www.w3school.com.cn/css/css_reference.asp

活动3： 安装NetBeans

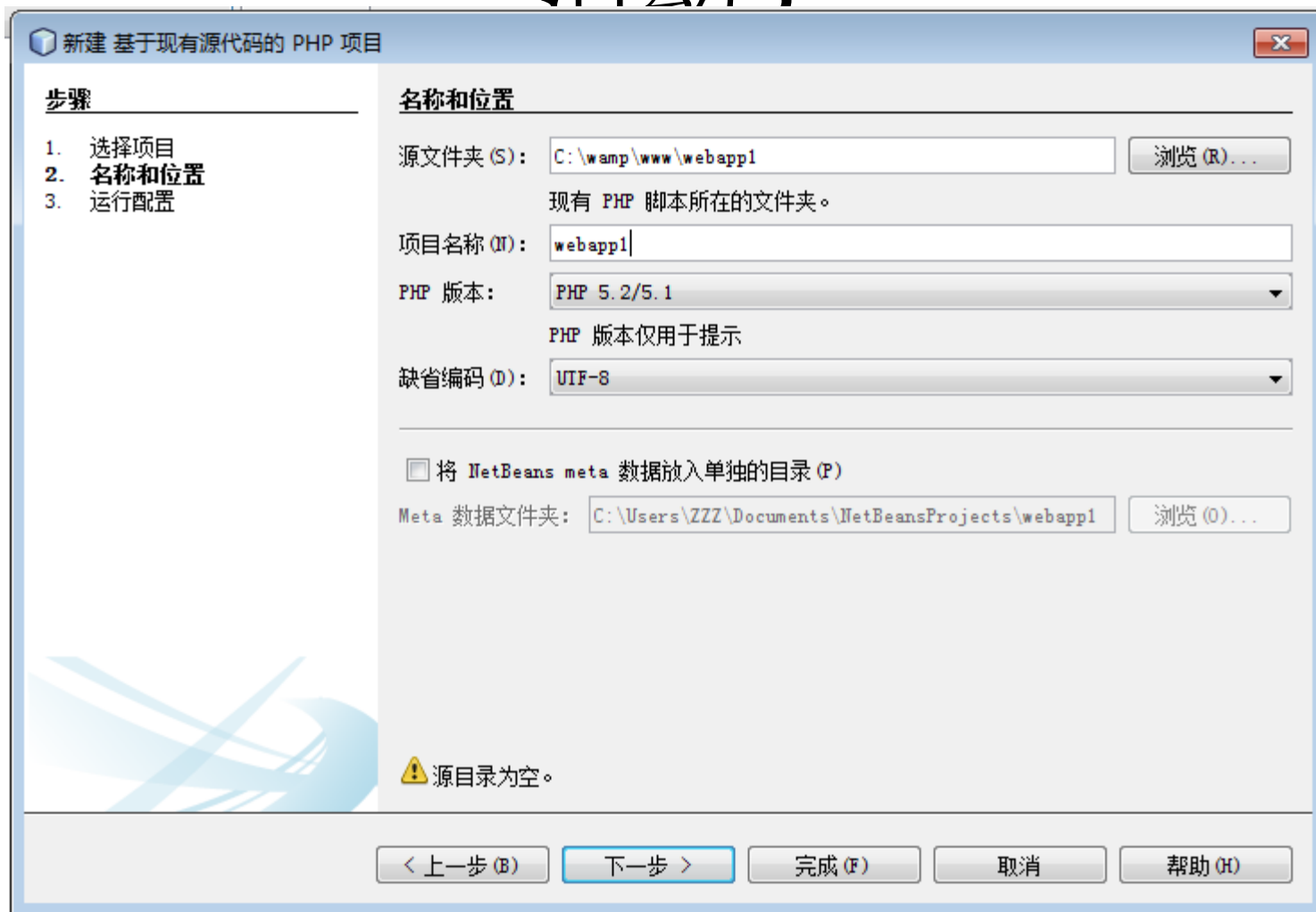
- netbeans-7.1.2-ml-php-windows.exe
- 测试NetBeans功能
 - 1 用Windows资源管理器，到www root下创建文件夹 webapp1
 - 2 在NetBeans中，创建PHP Project
 - 3 创建网页
 - 4 打开网页



活动3.



活动3.



活动 3.

新建 基于现有源代码的 PHP 项目

步骤

1. 选择项目
2. 名称和位置
3. 运行配置

运行配置

指定此项目文件的部署方式。
随后可以在“项目属性”对话框中添加和修改配置设置。


运行方式 (R): 本地 Web 站点 (在本地 Web 服务器上运行)

项目 URL:

索引文件 (I): 浏览 (O)...

将源文件夹中的文件复制到其他位置 (C)

复制到以下文件夹 (L): 浏览 (R)...

 必须指定索引文件才能在命令行中运行或调试项目。

< 上一步 (B) 下一步 > 完成 (F) 取消 帮助 (H)

webapp1 - NetBeans IDE 7.1.2

文件(F) 编辑(E) 视图(V) 导航(N) 源(S) 重构(A) 运行(R) 调试(D) 团队开发(M) 工具(T) 窗口(W) 帮助(H) 搜索 (Ctrl+I)

项目 文件 服务

- webapp1
 - 源文件
 - newhtml.html
 - 包含路径

起始页 newhtml.html

源 历史记录

```
1 |  
2 | To change this template, choose Iools | Templates  
3 | and open the template in the editor.  
4 | -->  
5 | <!DOCTYPE html>  
6 | <html>  
7 |   <head>  
8 |     <title></title>  
9 |     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  
10 |   </head>  
11 |   <body>  
12 |     <div>IODO write content</div>  
13 |   </body>  
14 | </html>  
15 |
```

任务

<无任务>

过滤器: [] [] []

<无任务> (在所有打开的项目中)

1 | 1 | INS

活动4： 测试CSS

- 基本格式
- 布局

Js

JavaScript

Position Mar 2012	Position Mar 2011	Delta in Position	Programming Language	Ratings Mar 2012	Delta Mar 2011	Status
1	1	=	Java	17.110%	-2.60%	A
2	2	=	C	17.087%	+1.82%	A
3	4	↑	C#	8.244%	+1.03%	A
4	3	↓	C++	8.047%	-0.71%	A
5	8	↑↑↑	Objective-C	7.737%	+4.22%	A
6	5	↓	PHP	5.555%	-1.01%	A
7	7	=	(Visual) Basic	4.369%	-0.34%	A
8	10	↑↑	JavaScript	3.386%	+1.52%	A
9	6	↓↓↓	Python	3.291%	-2.45%	A
10	9	↓	Perl	2.703%	+0.73%	A
11	13	↑↑	Delphi/Object Pascal	1.727%	+0.73%	A
12	30	↑↑↑↑↑↑↑↑	PL/SQL	1.418%	+1.01%	A
13	11	↓↓	Ruby	1.413%	-0.09%	A
14	23	↑↑↑↑↑↑↑↑	Transact-SQL	0.925%	+0.38%	A
15	15	=	Lisp	0.922%	-0.01%	A
16	22	↑↑↑↑↑↑	Visual Basic .NET	0.784%	+0.22%	A-
17	18	↑	Pascal	0.771%	+0.07%	A
18	32	↑↑↑↑↑↑↑↑	Logo	0.717%	+0.31%	A-
19	17	↓↓	Ada	0.633%	-0.09%	B
20	19	↓	NXT-G	0.604%	-0.04%	B

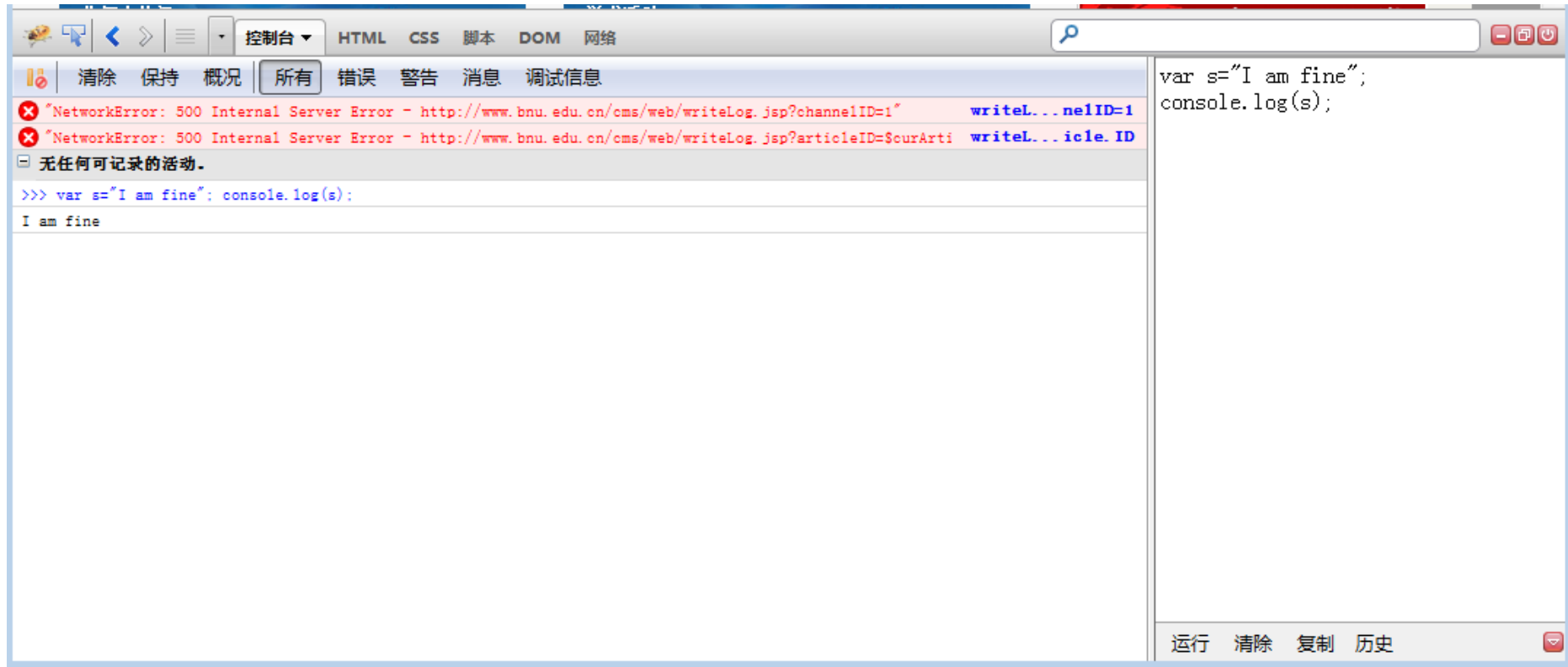
JavaScript

- 客户端语言（基本正确）
- Web客户端的事实标准
- C语言家族？
- 脚本语言，动态语言，解释执行
- 和Java非常不同
- Flash中的ActionScript是表亲

JavaScript

- 执行环境
 - 宿主程序（不是OS），通常为浏览器
- 调试工具
 - Firefox+Firebug
- 代码编写
 - 纯文本编辑器：记事本、UE、Notepad++, ...
 - Dreamweaver
 - **NetBeans**, Aptana, Eclipse, ...
- 代码检查工具
- 代码最小化工具

JavaScript—执行和调试环境



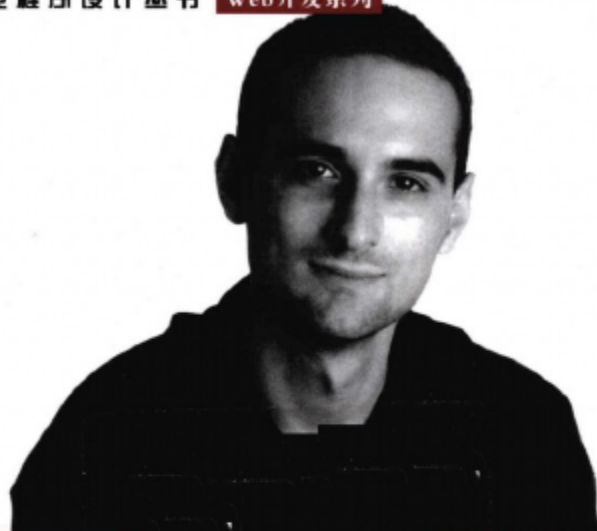
活动5：运行和调试Js

- NetBeans编写
- Firebug编写

JavaScript概述

- 变量声明与类型
 - 数组
 - 对象
- 运算符与表达式
- 流程控制
- 函数定义
- 变量的作用域
- 对象的定义，没有类！

TURING 图灵程序设计丛书 Web开发系列



Professional JavaScript for Web Developers Second Edition

JavaScript 高级程序设计 (第2版)

[美] Nicholas C. Zakas 著
李松峰 曹力 译

- JavaScript经典教程
- Amazon超级畅销书
- 前端开发人员必备

人民邮电出版社
POSTS & TELECOM PRESS

www.TopSage.com