

The 8th Northeast Asia OSS Promotion Forum in Tokyo



# The Status of Web Interoperability and activities in CJK

Hiroyuki Shimizu  
(Mitsubishi Research Institute, Inc.)



# Why we are?

- Increasing the development and usages of Open source web browsers based on Open Source operating systems.
  - Gecko engine (Mozilla Firefox)
  - Webkit engine (Safari)
- **Bottle neck : Web Interoperability**
  - Users “**Web sites don’t work in Firefox, but do in IE!**”
  - Developers “**It’s hard to make web page in both browsers!**”



# Our activities

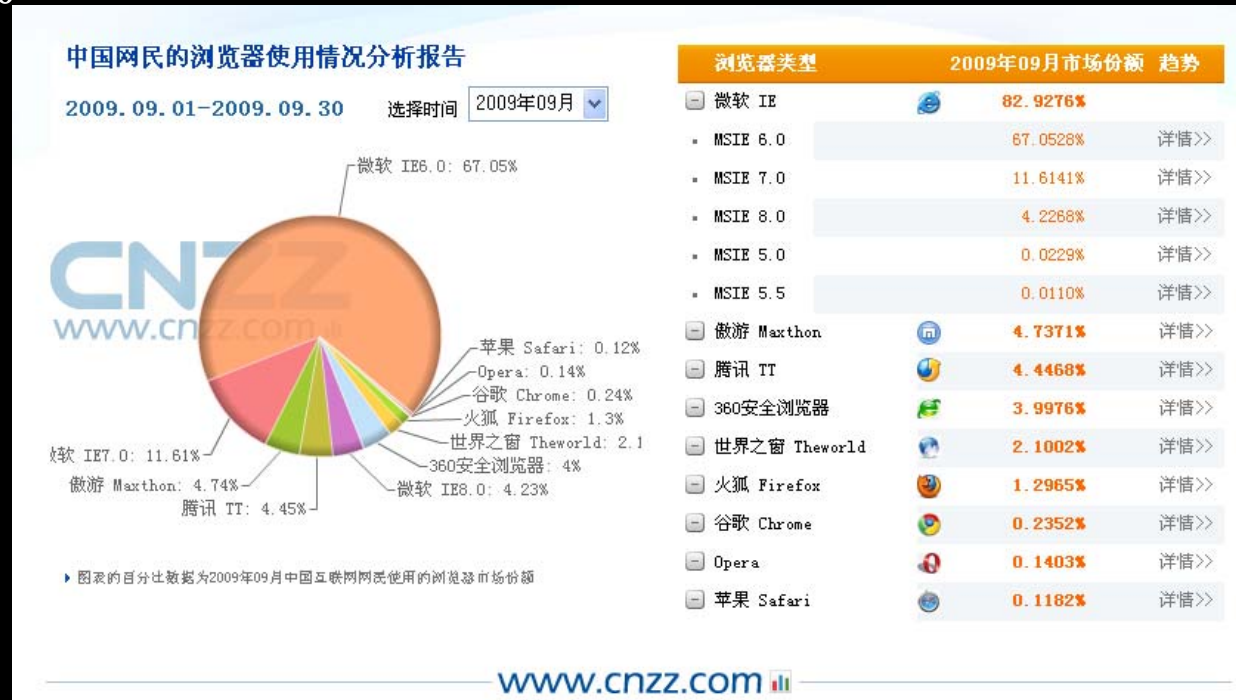
- Making guidelines for bridging the differences in major browsers.
  - TR00003: Report of Web interoperability discrepancy (2007-2008)
    - Total **168** discrepancies reported in the survey
    - Internet Explorer 6 and Firefox 2
  - TR00004: Solution of Web interoperability discrepancy (2009)
    - Total **81** possible solutions based on TR00003.
- Promotion of our works
  - Sending request letters to fix problems
    - **Mozilla Foundation, Microsoft Corp. and W3C Office**
  - Sending letters for promotion and adoption
    - **NEAOSS forum in each countries**
  - Promoting documents in each local Web standards developers communities



# The Status of Web Interoperability

# Recent status in China

- Web browsers market share in China\*1
  - MS IE: 82.9%
  - Firefox: 1.29%
  - Chrome: 0.23%
  - Safari: 0.12%





# Recent status in China

- Based on the ongoing Web compatibility test
  - Most public websites support Open Source web browsers with some little function flaws.
  - But for E-bank websites, only 28% allow user to login in insecure way which can be accomplished in Firefox.
  - To login in secure mode, incompatible ActiveX controls are always required.



# Recent status in Japan

- For general users
  - The market share of Firefox
    - 22.3%\*1, 9.7%\*2
  - Local web standards communities and resources (many books and coursework)
  - Most major Web sites support Open Source browsers (e-commerce, banking, etc.)
- For enterprise users
  - Many companies endorse only IE as the official browser to access their intranet systems
  - Either some ASP and SaaS services...

\*1) Source: StatCounter <http://gs.statcounter.com/#browser-JP-monthly-200809-200910-bar>

\*2) Source: Samurai Factory <http://www.samurai-factory.jp/info/2009/20091005111.html>



# Recent status in Korea

- **Non-governmental area**
  - The market share of Open source browser under 2% , but major portal sites supports web standards such as Naver and Daum.
  - Local web standards communities and resources (many books and coursework)
  - Unsolved ActiveX based e-commerce sites e.g. internet banking and credit card processing
    - **Legal actions (<http://OpenWeb.or.kr>) and Consumer action (<http://Openbank.or.kr>)**
  
- **Governmental**
  - Supporting open source web browsers and activities by NIPA and NEAOSS forum
  - Making web standards master plan (2009)





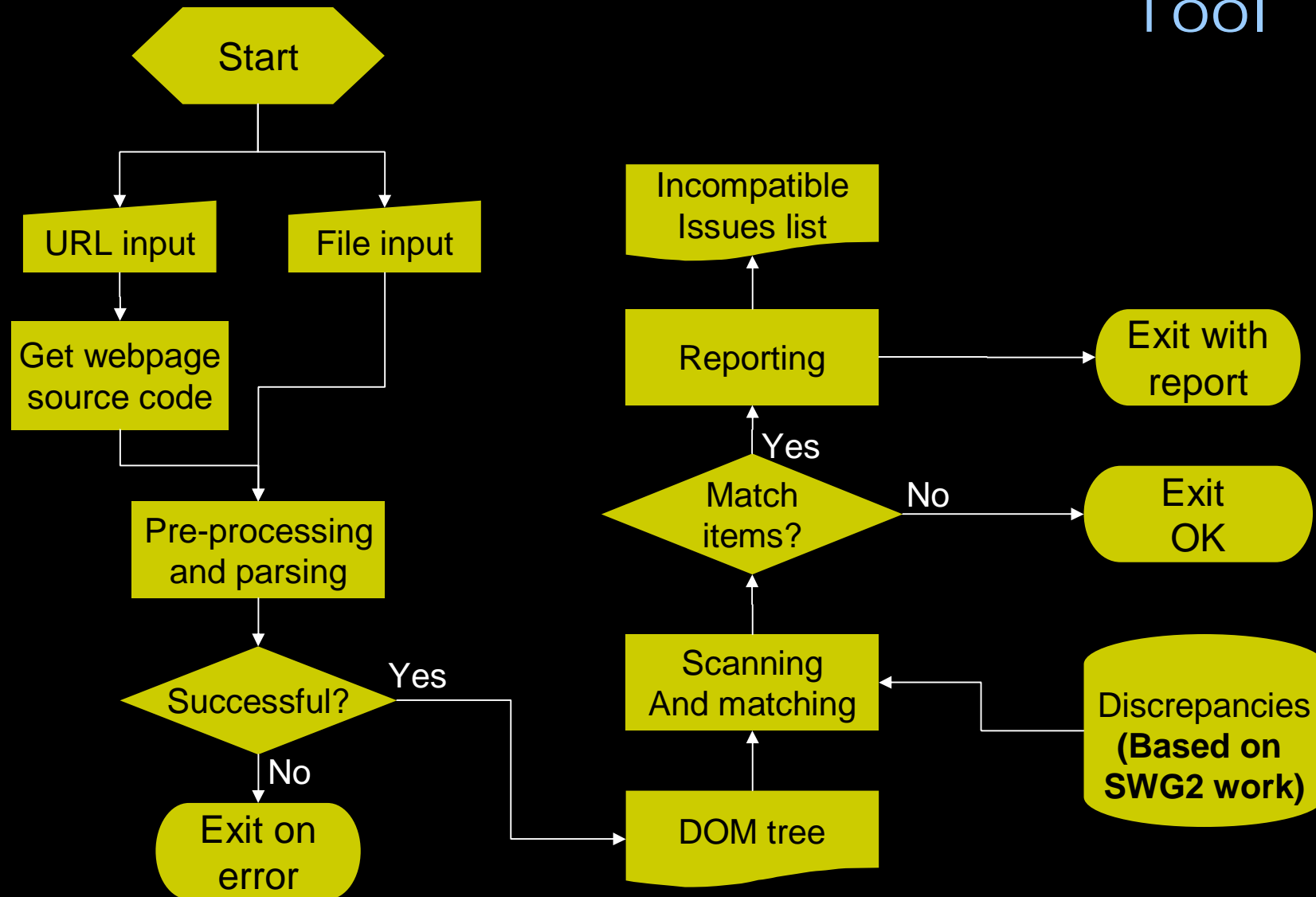
# Recent Activities of Web Interoperability

# SWG2 Related Activities in China



- **Performing test based on our guidelines**
  - A compatibility test of websites which closely related to SWG2 work is ongoing.
  - The whole test result will be open to public so to give pressure to the organizations to improve their problematic websites.
  
- **Developing testing tools**
  - The test demands a scanning utility to help finding incompatible elements in web-pages. The utility uses SWG2's technical reports as a major input for discrepancy database.

# Flow Chart of Testing Tool



# SWG2 Related Activities in Japan



- Released "Pirka'r", a supporting tool for creating interoperable Web sites
  - Open Source Software (Apache License, Version 2.0)
  - Supported by IPA
  - <http://pirkar.ashikunep.org/index.html>
- Features of Pirka'r
  - Interoperability checking based on the deliverables of SWG2
    - **Also use W3C CSS validator**
  - Real-time previewing with 3 browsers (IE, Firefox, Safari)
  - Editing function with code completion, syntax highlighting, syntax checking functions, and so on

# SWG2 Related Activities in Japan



**IE** **Firefox** **Safari**

**3 browsers in one window**

**Managing and checking whole web site**

**Real-time previewing**

**Interoperability checking**

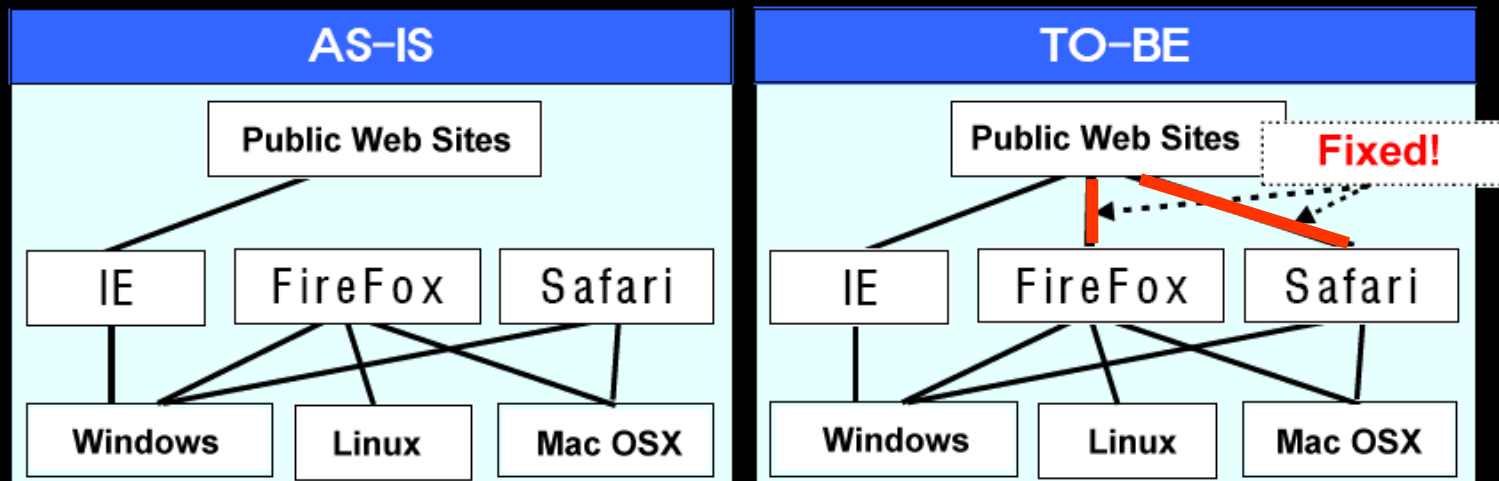
```
<?xml version="1.0" encoding="utf-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional"
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="ja" lang="ja" dir="ltr"><!-- InstanceBegin template="/Template
content="text/html; charset=UTF-8" />
<!-- type="text/javascript" />
<!-- type="text/css" />
content="no" />
作成支援ツール</title>
= "ピリカル" />
Pirka'r, Pirka'r, ピリカル, web標準, 文法チェック, W3C, The Ashikunep Kotan" />
Ashikunep, Kotan" />
www.ashikunep.org" title="運営・管理" />
Pirka'r, ashikunep.org/index.html" />
common/css/style.css" type="text/css" media="screen, tv, print" />
```

記述	リソース	行	タイプ	パス
エラー (2 項目)				
document.URLは参照専用ですが、IEの場合に	error.js	行 2	非互換性の問題	sample/WebC...
プロパティ dummy は存在しません:	incompat...	行 4	CSSの問題(W3C-...	sample/WebC...
警告 (1 項目)				
終了タグ </div> がありません。	index.html	行 11	HTML 問題	sample/WebC...
情報 (1 項目)				
FirefoxやSafari 3では<q>で囲まれた部分の前	index.html	行 9	非互換性の問題	sample/WebC...

# SWG2 Related Activities in Korea



- Promotion of web interoperability in public
  - Web interoperability master plan of Korean government by Ministry of Public Administration and Security (<http://www.mopas.go.kr>)
  - Joining SWG2 members as a invited expert to make technical guidelines.





# Web interoperability Master plan (2009)



## ■ Details

- Starting obligation of web standards for public web sites from 2011
- Redeveloping 150 major public sites toward civilian until 2011
- Training over 1,500 web standards experts until 2011

## ■ Technical Guidelines

- Compatibility on the minimum of three major web browsers
- Rejecting non-standards techniques such as ActiveX, NPlugins and Java Applet
- If they are needed technologically, 1) developing solutions for the minimum three browsers 2) giving choices to users for alternative 3) its needs must be decided by experts group of Web Korea forum

# Conclusion: for all users!



mozilla

