COMP 10066
Week 5 Lecture

Website Testing

Web Numbers?
all related to the Internet

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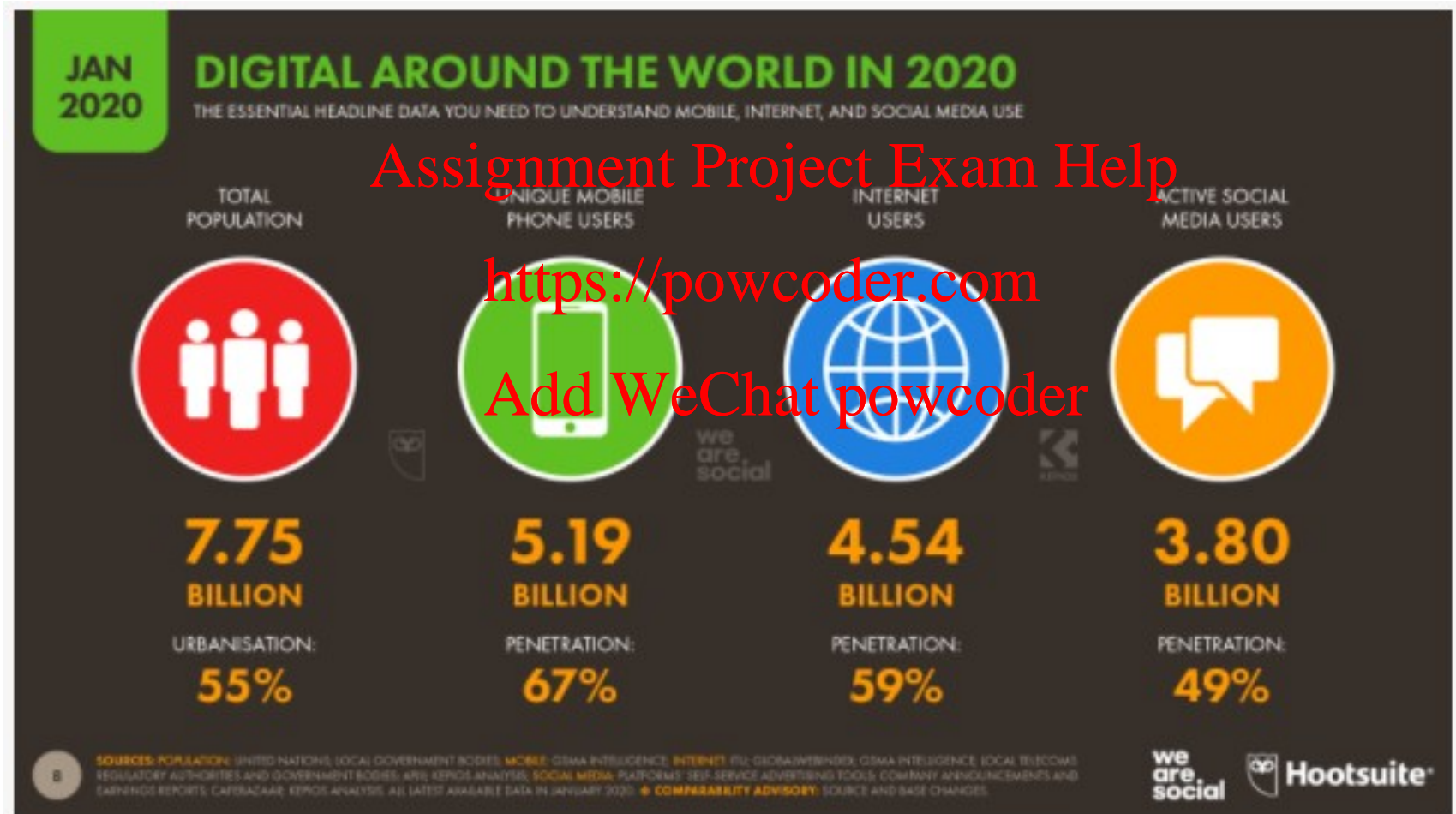
Web Site Testing

- Reasons why web-sites need to be tested:
  1. Web sites have a potential large audience
  2. They are public
  3. Quality of site reflect on the company
  4. Need to be professional
     - Can have a diverse set of users / uses

Web Site Testing – How?

- What is Gray box-testing?
  - Partial view into the code on a web-page
    - HTML is visible, some CSS/javascript may also be visible

- What types of items should be reviewed in a gray-box test?
  - Use of standard / modern tagging.
    - Responsive design implemented for mobile devices
  - Use of outdated features
    - These are not always well supported in new devices
  - Information that should not be in production code
    - Comments

High Quality Web Site Characteristics

- Content - Content is mostly unique. Content contains detail and describes both sides of a story.
  - This can be difficult to do for commercial web sites.

- Expertise - Content is produced by experts based on research and or experience.

- Accessibility – A high quality website supports all users regardless of device.

- Usability - Can read / navigate the website easily?

Reference : https://www.reliablesoft.net/what-is-a-high-quality-web-site-in-the-eyes-of-google/

High Quality Web Site Characteristics

- Attention to detail - Free of spelling and grammatical errors.

- Technically works - Links, Forms / User interaction works as specified / expected

- SEO Optimization
  - Optimizing a web site so that it can be easily found without using techniques to trick search engines.

Reference : https://www.reliablesoft.net/what-is-a-high-quality-web-site-in-the-eyes-of-google/

Web Site Testing

- What is Configuration and Compatibility testing?
    - Testing of site by using a combination of different hardware and software
    - This type of testing is important in a fractured hardware/software environment
    - *Current Web/Mobile device environment is challenging for testing*
    - **Name some of the challenges?**

Web Site Testing

- Compatibility Item Checklist
    1. Hardware platform
        - mobile vs desktop experience
    2. Browser manufacturer
        - Browser version
    3. Plug-ins
        - If site relies on plug-ins, are they widely available
    4. Speed
        - Becoming less of an issue. 3% of Canadians STILL have no access to high speed.
            - See - http:// www.cbc.ca/news/business/no-connectivity-the-internet-blackout-zone-that-is-rural-canada-1.3792786
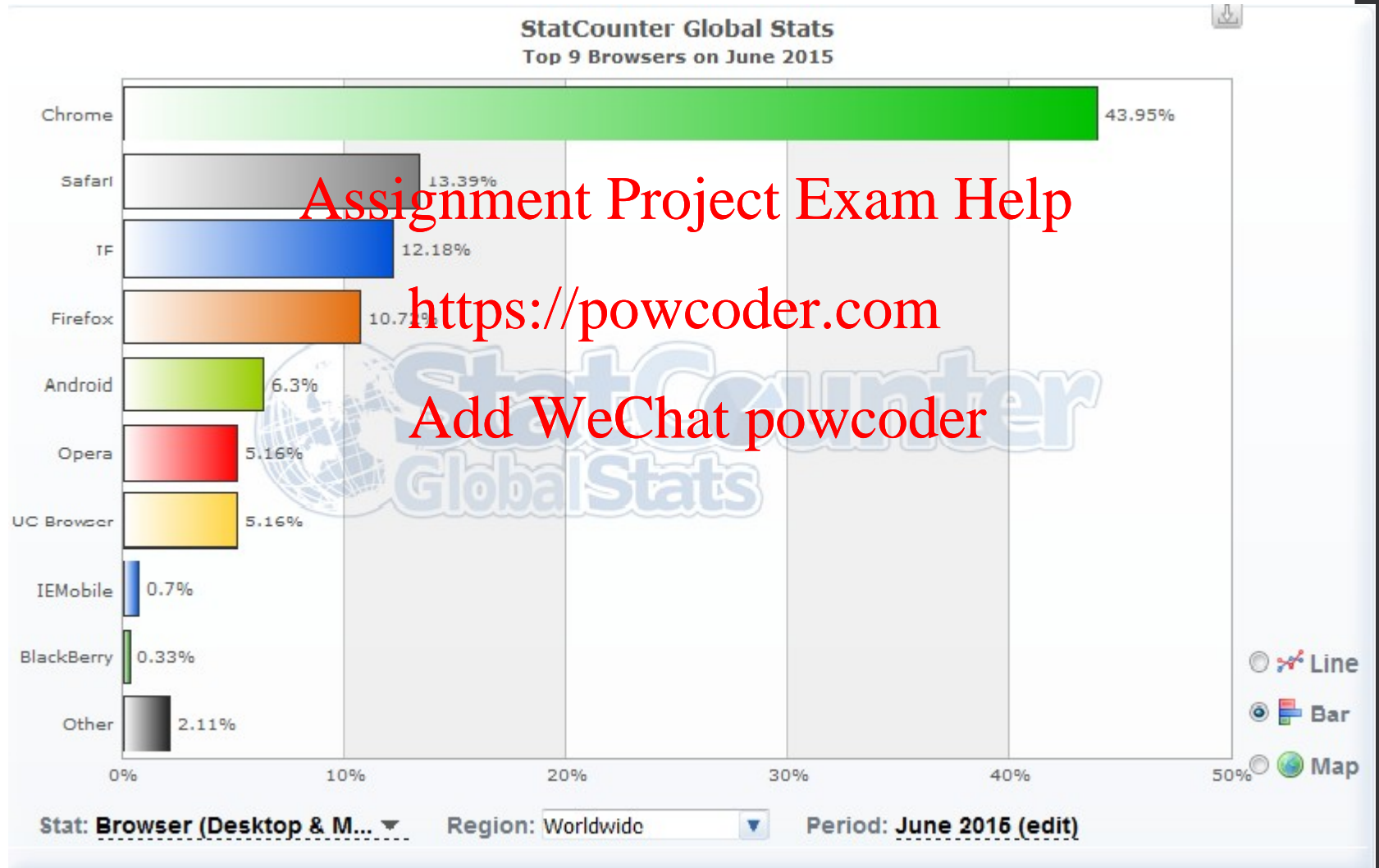   - https://crtc.gc.ca/eng/internet/internet.htm

Strategies for Testing

- Review Market conditions and start at most popular and work to least popular

- Research tools to cut down workload

Top Browsers 2015

StatCounter Global Stats
Top 9 Browsers on June 2015

Browser	Percentage
Chrome	43.95%
Safari	13.39%
IE	12.18%
Firefox	10.7%
Android	6.3%
Opera	5.16%
UC Browser	5.16%
IEMobile	0.7%
BlackBerry	0.33%
Other	2.11%

○ ⚡ Line
◉ ▦ Bar
○ 🌐 Map

Stat: **Browser (Desktop & M... ▼**   Region: Worldwide ▼   Period: **June 2015 (edit)**

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http://gs.statcounter.com/#all-browser-ww-monthly-201506-201506-bar

Top Browsers 2020

Browser Market Share Worldwide
Aug 2019 - Aug 2020

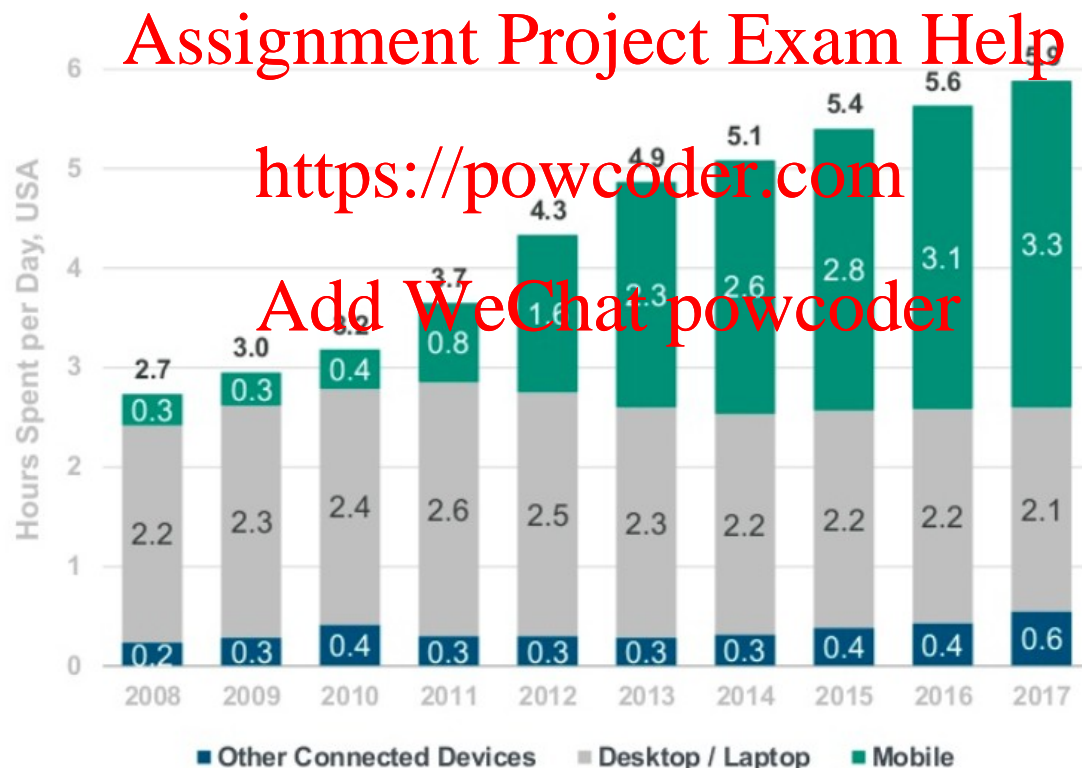| Browser	Share
Chrome	64.31%
Safari	17.22%
Firefox	4.38%
Samsung Internet	3.36%
UC Browser	2.39%
Opera	2.13%
Edge Legacy	1.92%
IE	1.63%
Android	0.57%
Other	2.07%
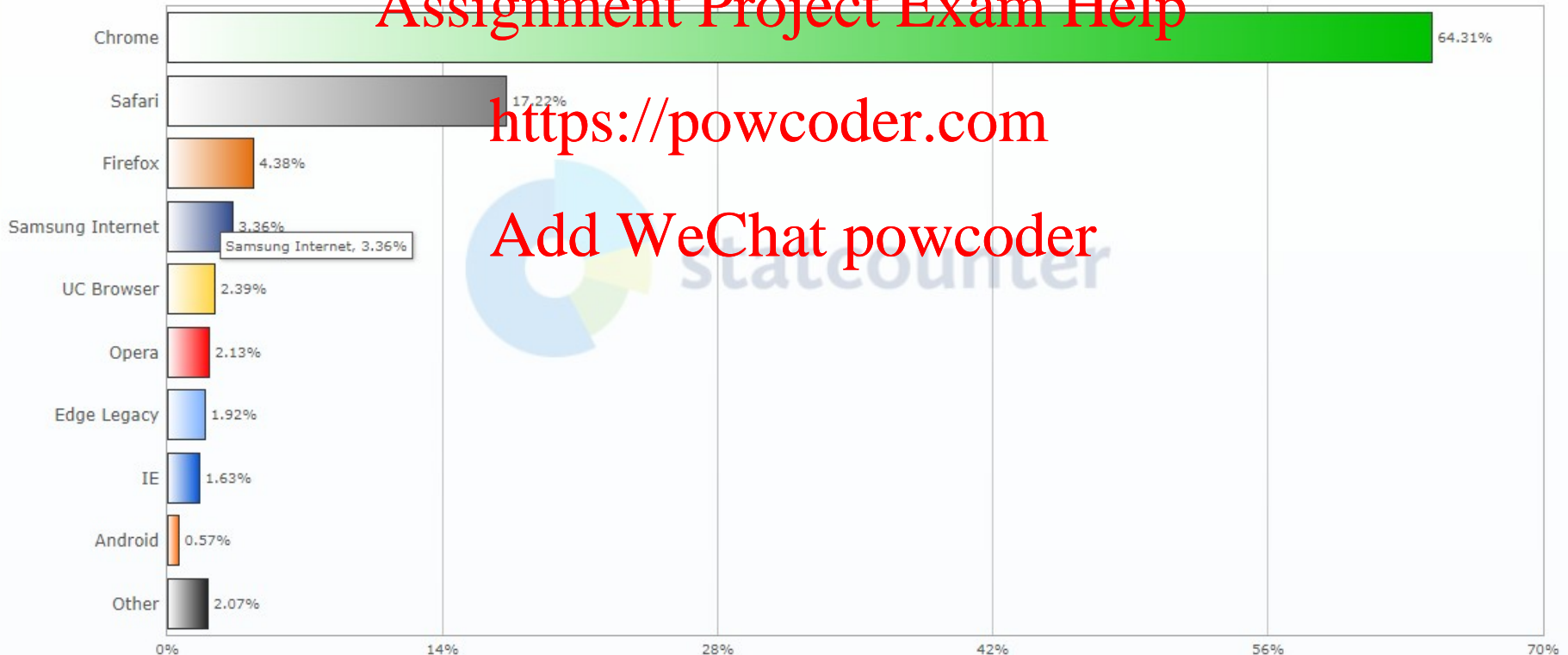
Changing Landscape for the Web

Digital Media Usage @ +4% Growth...
5.9 Hours per Day (Not Deduped)

Daily Hours Spent with Digital Media per Adult User

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11

Web Site Testing

- How can automation help with Web-Site testing?
  - Reduces time on testing.
  - Allows tester to focus on developing tests.

- List tools that can be used to automate some aspects of web-site testing:
  - Link Checking
  - Spell Checking
  - Form Validation Checking / Results Checking
    - Selenium / WebDriver - http://www.seleniumhq.org/
    - Katalon Automation - https://www.katalon.com/
  - Performance checking
    - https://home.wpm.neustar.biz/
    - http://www.webperformance.com/