Browsers and Search Engines

Milestone 7 – CSCI 435 – Spring 2025

*Please be sure that you complete all pages of this worksheet. Some sections may begin on new pages, so you may need to scroll past any blank space.*

*As you read the background material, fill in the answers to the following questions inside the provided boxes (1x1 tables). You do* ***not*** *need to write complete sentences for questions that ask for a short answer. Paragraph or bullet form is acceptable for questions that require an explanation or description.*

1. A typical Web page consists of a document written in what computer language?

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2. What are the 3 major browser engines currently in use?

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3. What is the term (3 words or 1 acronym) for the global directory that maps human-readable names to IP addresses?

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4. What language is used for scripts that a website provides for execution in the browser?

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5. What component (3 words or 1 acronym) joins the browser’s layout and scripting engines?

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6. What is the term for the storage location a browser uses to hold downloaded pages, images, media files, and other content?

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7. By default, browsers retain a record of all visited pages, which is called the \_\_\_\_\_\_.

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8. What kind of Web-based service (two words) updates parts of a page in real time and can replace a traditional, offline application?

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9. What kind of cloud computing (4 words or 1 acronym) lets companies force people to buy a subscription to a piece of software instead of just paying once?

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10. Each new feature added to a browser increases its privacy \_\_\_\_\_\_ surface.

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11. What framework, based on the Chromium browser, enables a desktop application to be created with Web-based technology while providing few privacy controls?

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12. True or False? A private Web browser will make your browsing habits private even if you choose to use Windows 11.

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13. Which mainstream browser has a built-in advertising network and cryptocurrency system?

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14. Which company updated the Firefox browser to contain ad measurement support?

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15. Apple allows only which browser (or engine) to be used on iOS?

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16. True or False? For privacy, you should only use one browser.

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17. A browser \_\_\_\_\_\_\_ is a piece of add-on software that adds functionality to the browser or changes it behavior or appearance in some way.

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18. Which API has Google forced into Chrome in an effort to neuter ad blockers?

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19. True or False? Using a content blocker can improve online privacy.

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20. Instead of blocking ads, what two-word anti-forensic technique could instead be used to click on every ad in the background, giving the advertisers useless data about a person’s interests?

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21. True or false? Private/incognito browsing modes prevent the browser vendor from determining which websites you visit.

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22. True or false? Using private/incognito mode makes you anonymous to websites.

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23. Google search result quality has declined as a result of what kind of trickery by the authors of crappy websites (3 words or 1 acronym)?

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24. Which search engine has perfect privacy? (HINT: Trick question.)

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42. What was the name of the computer that was built to find the ultimate *question* that matches the answer to life, the universe, and everything?

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*Please continue to the next page*.

# Screenshot

*Replace the following image with a screenshot of your EFF Cover Your Tracks (Panopticlick) results using LibreWolf. Be sure the top part of the results, showing the summary of your exposure to trackers, is displayed in the screenshot. Also be sure that enough of the LibreWolf window is visible to confirm that you’re using LibreWolf and not some other browser.*



# Submission

*When you have completed this worksheet, export it to PDF format. Upload the PDF file as your Moodle submission for this milestone.*