

(TR-102)

MASTERING THE SEMANTIC WEB

Training Day 8 Report:

21 June 2024

The eighth day of the TR-102 training continued with advanced web tools, focusing on Google Analytics, axeDevTool, the W3C Validator, Wappalyzer, and creating RDF graphs using Turtle syntax.

Google Analytics:

Google Analytics is a web analytics service provided by Google that helps website owners and marketers understand and analyse the behaviour of their website visitors. It is a powerful tool that provides insights into how users interact with a website, including how they arrive, what they do on the site, and how they convert.

- The session introduced Google Analytics, a powerful tool for tracking and analysing web traffic.
- Participants learned how to set up Google Analytics for their websites
- Analysed traffic data to gain insights into user behaviour, interpret the data, and improve site performance.

Google Web Master Tool:

Google Webmaster Tools, now known as Google Search Console, is a free service provided by Google that helps website owners and developers monitor and improve their website's performance in search engine results.

axeDev Tool:

axeDev Tools is a powerful tool designed to help developers and testers identify and fix accessibility issues in web applications.

How to Use Axe DevTools?

1. **Install the Extension:** Add the Axe DevTools browser extension from the Chrome Store.
2. **Scan Your Page:** Open the Axe DevTools tab in your browser, select the page you want to test, and click "Scan" to start the automated testing.
3. **View Results:** Axe DevTools will highlight accessibility issues and provide detailed information about each issue, including references for how to fix them.

4. **Save and Export:** Save your results and export specific issues to share with colleagues or issue tracking software.
5. **Intelligent Guided Tests:** Use IGTs to guide you through more complex accessibility issues without requiring extensive accessibility knowledge.

W3C Validator:

- The session covered the use of the W3C Validator to check the mark-up validity of web documents in HTML, XHTML, SMIL, etc.
- Validated web pages to ensure they adhere to W3C standards, improving compatibility and performance.

Wappalyzer:

- Participants explored Wappalyzer, a tool that uncovers the technologies used on websites.
- Analysed various websites to identify the technologies and frameworks used, helping in understanding the tech stack behind web projects.

Creating RDF Graphs:

Created RDF graphs using Turtle syntax, applying concepts learned during the session.

Key Takeaways:

- **Google Analytics:** Mastered setting up and using Google Analytics to track and analyze web traffic.
- **axeDevTool:** Gained practical skills in using axeDevTool for accessibility testing.
- **W3C Validator:** Understood the importance of validating web documents against W3C standards.
- **Wappalyzer:** Learned to identify web technologies used in various websites.
- **RDF Graphs:** Enhanced skills in creating RDF graphs using Turtle syntax for structured data representation.

Conclusion:

Day 8 of the TR-102 training equipped participants with advanced tools and techniques for web development. The session emphasized the importance of data analysis, accessibility, and validation in creating robust and user-friendly web applications. Participants are now better prepared to optimize their web projects using data-driven insights and industry standards.