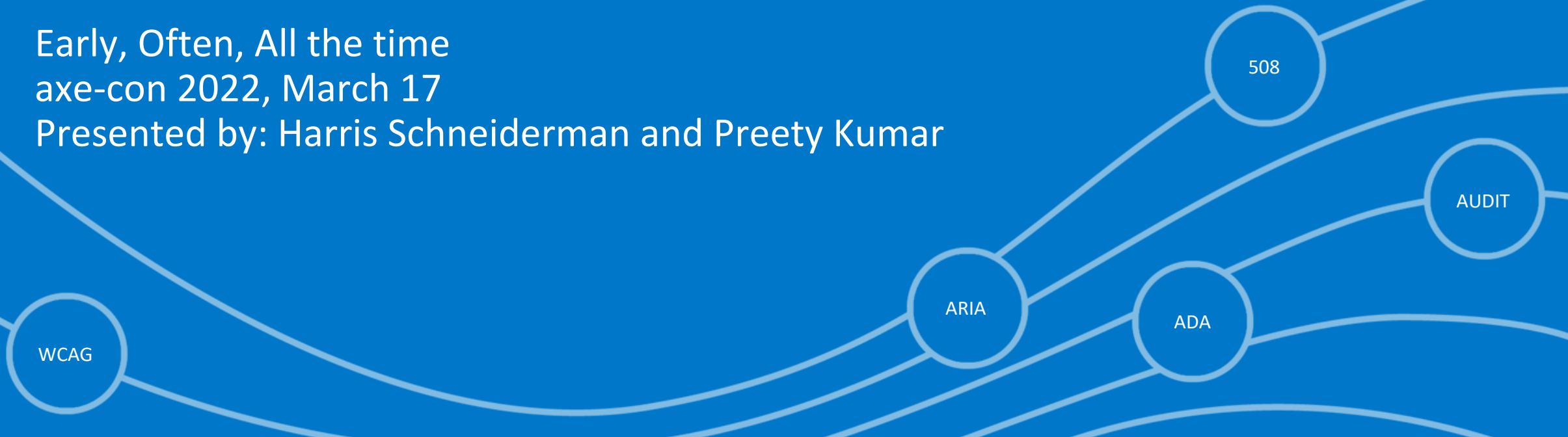




Testing for Accessibility in the Development Cycle

Early, Often, All the time
axe-con 2022, March 17

Presented by: Harris Schneiderman and Preeti Kumar



a11y Broken Windows



An abstract graphic in the top half of the image features several thin, white, curved lines that sweep across the dark blue background. Three white circles are positioned along these lines: one on the left, one in the upper middle, and one on the right. The lines and circles create a sense of movement and flow.

Introducing the 12-step Program

DevOps activities relevant to accessibility

Individual

1. Editing code
2. Testing interactively
3. Writing automated unit tests
4. Pushing code to the team repository

Team

5. Gating code quality
6. Reviewing code
7. Running automated [integration] test suites
8. Running automated regression tests
9. Assuring quality

Organization

10. Monitoring code quality and tech debt
11. Auditing compliance
12. Monitoring and reporting ADA risk



Whoaa - 12 steps????

That's overwhelming!

axe DevTools - High Velocity a11y

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- B** 2. Testing interactively
- A** 3. Writing automated unit tests
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- M** 12. Monitoring and reporting ADA risk

L axe Linter Server **B** axe DevTools browser extension **A** axe DevTools API **X** axe Auditor **M** axe Monitor



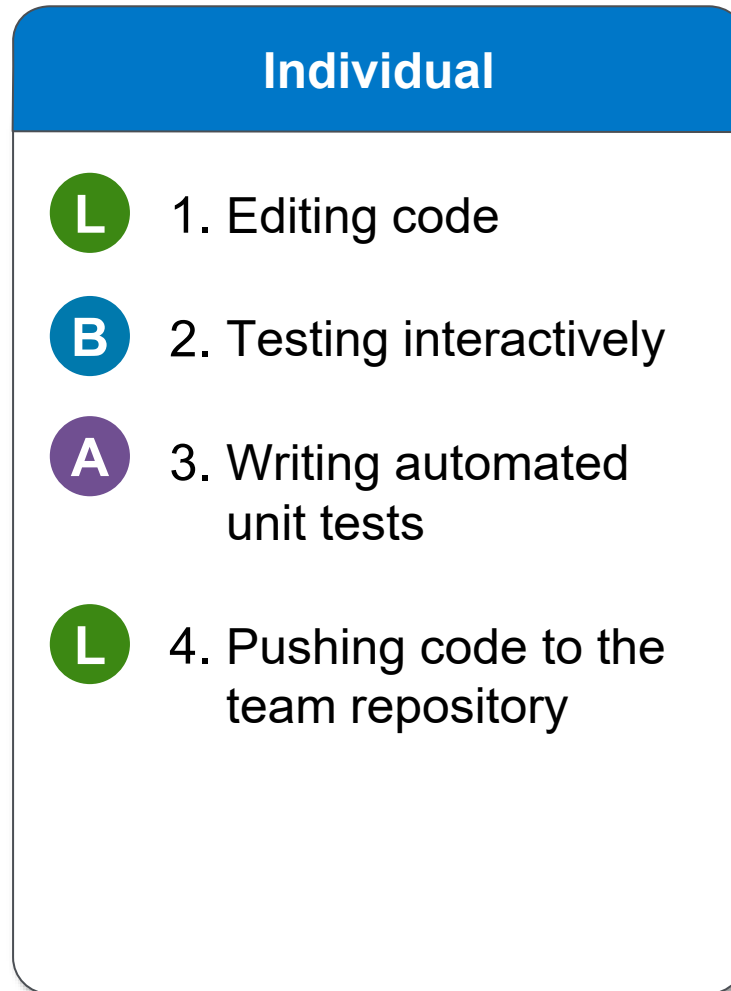
Why test early, test
often?

Word of the day - Incrementalism

incrementalism
(noun)

a method of decision making in which changes are implemented in small steps or decisions are made gradually/step by step as a problem unfolds

Add a11y value as a dev - and stop playing ping pong



axe Linter Server



axe DevTools browser extension

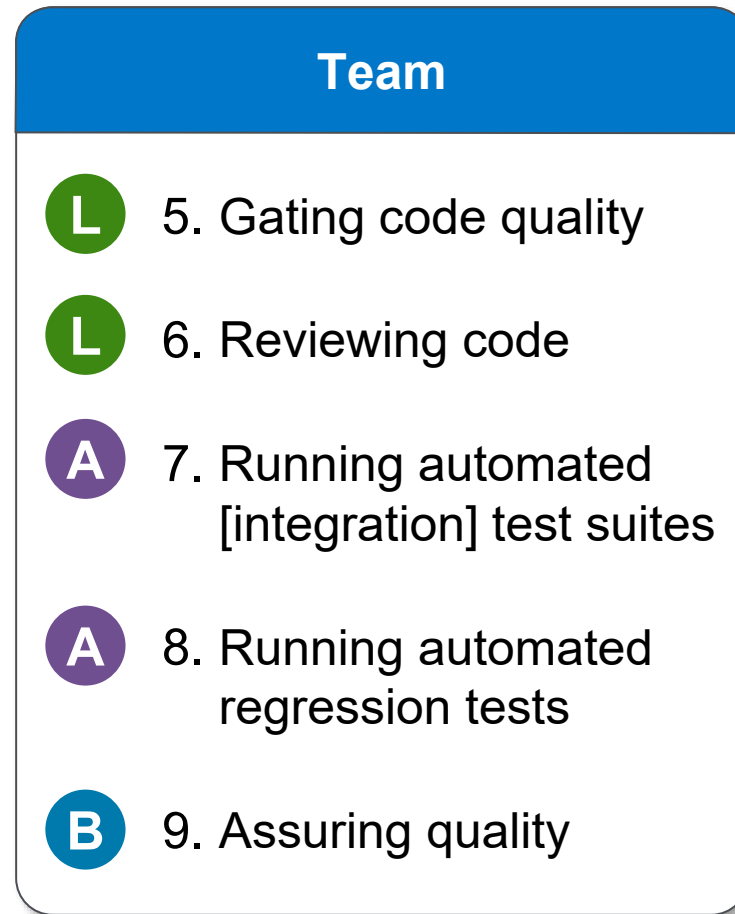


axe DevTools API



Demo

Team tests - Faster, Consistent Tests



axe Linter Server



axe DevTools browser extension






axe DevTools API



Demo

Code Blue - Health monitoring and no duplication manual testing

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axe Linter Server

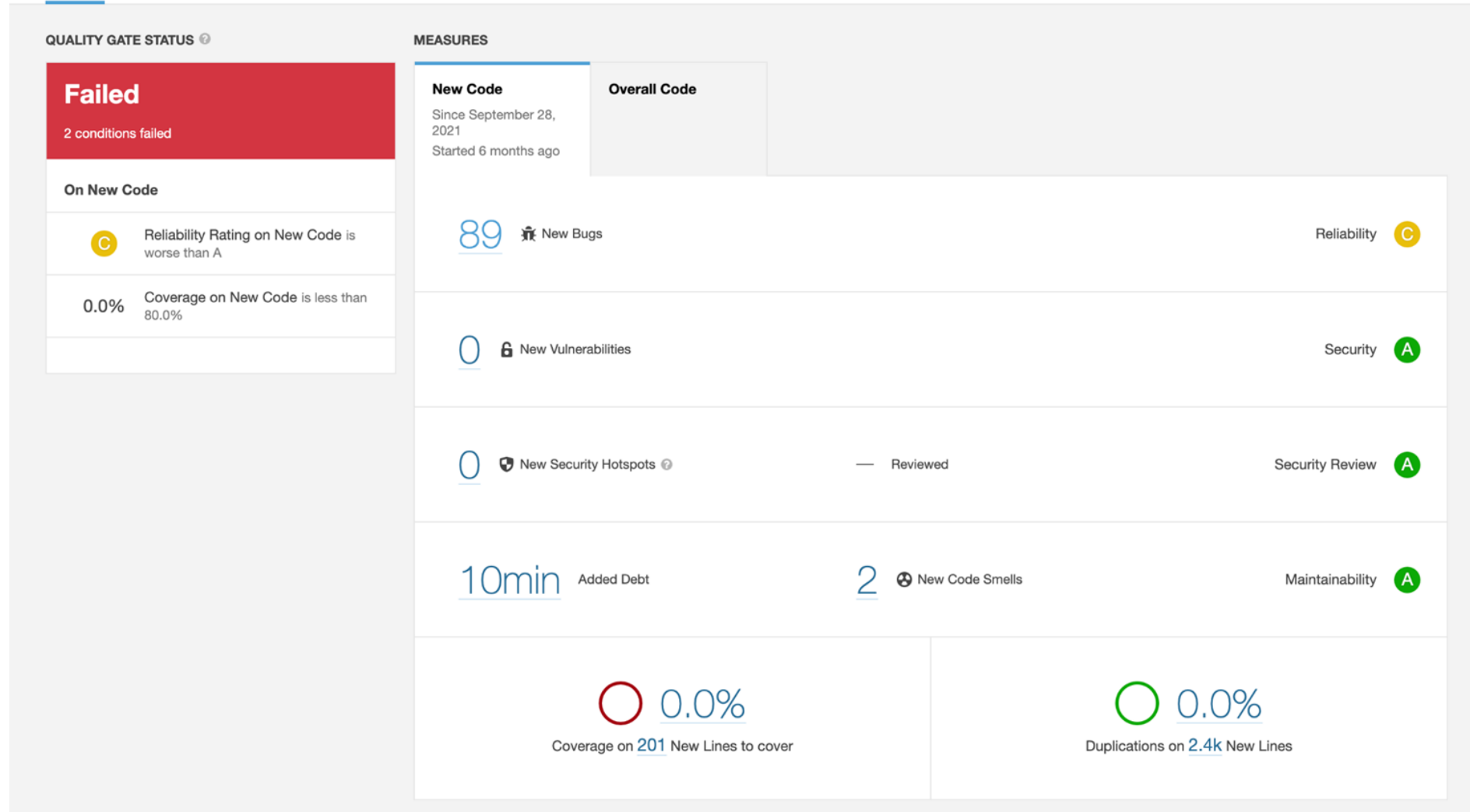


axe Auditor



axe Monitor

axe Linter with SonarQube





Perform full-coverage, consistent WCAG audits of all content and applications.

Axe Auditor is a step-by-step manual accessibility testing tool. Bring efficient and on-demand auditing capabilities to your in-house testing teams. Use axe Auditor to:

- Rerun tests on new builds or releases
- Test on multiple platforms
- Create precise and consistent accessibility issue reports for developers
- Create comprehensive reports for management
- Develop an accessibility testing and remediation Strategy, with improved execution, leveraging critical metrics to drive success.

The screenshot shows the Axe Auditor web application interface. At the top is a navigation bar with links for Home, Admin Settings, Test Cases, Test Runs, and a Browser Connection status. Below the navigation bar, a breadcrumb trail indicates the current location: Home > Test Runs > Test Run Overview: ACME Consulting Web Assessment > Issues. The main heading reads 'Issues for ACME Consulting Web Assessment: Test run completed on 02/18/20 at 8:28 am'. There are filter tabs for 'Filters' and 'Search'. Below these are dropdown menus for Impact, Issue type, Method, Test Unit, Checkpoint, and Groups. A status bar shows 'No issues selected' and an 'Actions' dropdown. The main content area is a table of issues. The first issue is selected, and its details are shown in a preview panel on the right. The table has columns for ID, Summary, and Checkpoint. The preview panel shows details for the selected issue, including its ID, summary, checkpoint, issue type, impact, method, and the dates when the test run started and completed. It also shows the page URL and the selector used to find the issue.

ID	Summary	Checkpoint
2663	Elements must have sufficient color con...	(1.4.3.a)
2665	Elements must have sufficient color con...	(1.4.3.a)
2666	Elements must have sufficient color con...	(1.4.3.a)
2667	Elements must have sufficient color con...	(1.4.3.a)
2672	Elements must have sufficient color con...	(1.4.3.a)
2668	Elements must have sufficient color con...	(1.4.3.a)
2671	Elements must have sufficient color con...	(1.4.3.a)
2669	Elements must have sufficient color con...	(1.4.3.a)
2662	Form elements must have labels	(1.3.1.c)
3315	Tab order on pages skips links in global ...	(1.3.2.a)

Issue Preview: Elements must have sufficient color contrast

Created by: [redacted]
Checkpoint: 1.4.3.a
Issue Type: Accessibility
Impact: Serious
Method: Automated
Test Run Started: 02/12/20 at 7:05 am
Test Run Completed: 02/18/20 at 8:28 am

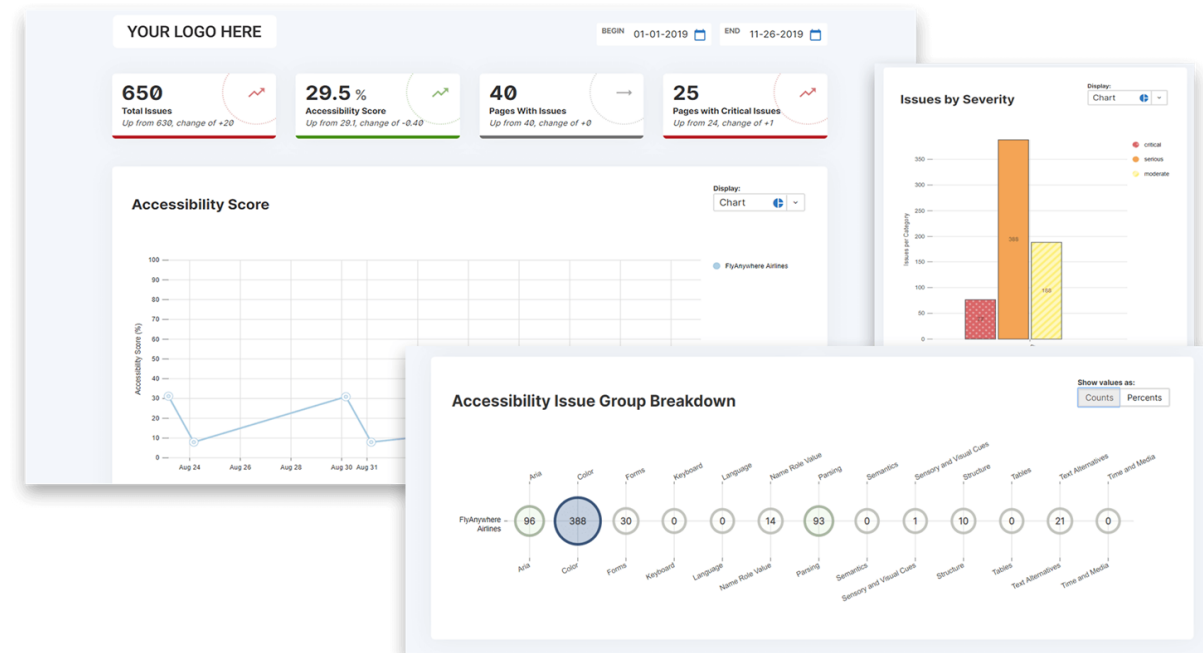
Page: Home Page
URL: http://abcdcomputech.deque...
Selector: #header > .fl-left > a



Dynamically scan, monitor & report on the accessibility status of your site.

Perform enterprise-level accessibility scans and meet your compliance needs with advanced reporting, monitoring, and management of accessibility issues against industry standards or customized guidelines. Use axe Monitor to:

- Automatically scan pages or PDFs
- Demonstrate trends and gain insight into development practices and processes
- Generate reports based on scheduled or manual scans
- Create executive dashboards
- Scan behind auth or firewalls.



axe DevTools - High Velocity a11y

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Thank You