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Introduction to Visual Regression

Master Visual Regression for Flawless UI Testing!

DEFINITION

Visual regression is a testing technique that compares visual changes in software interfaces. It ensures that updates do not unintentionally alter the appearance of an application.

KEY CONCEPTS

Baseline Images

These are the original images of the UI used for comparison in visual regression tests.

Diffing

The process of comparing baseline images with new images to identify visual differences.

Automated Testing Tools

Software tools that automate the visual regression testing process, making it faster and more efficient.

Threshold Settings

Parameters that define how much visual difference is acceptable before a test fails.

Responsive Design Testing

Ensuring that visual elements appear correctly across different devices and screen sizes.

EXAMPLES

- Comparing a webpage before and after a redesign.
- Checking if a new feature affects existing UI elements.
- Validating that a mobile app's layout is consistent across devices.

MEMORY TIPS

- ★ Think of 'visual' as 'seeing' – you are looking for changes.
- ★ Remember 'diff' as in 'difference' – it's all about spotting changes.
- ★ Use the acronym 'B.A.D.' for Baseline, Automated, Diffing.

COMMON MISTAKES

- ✗ Neglecting to update baseline images after UI changes.
- ✗ Setting threshold too high, allowing unnoticed visual defects.
- ✗ Overlooking responsive design tests for different devices.

QUICK RECAP

Visual regression testing ensures UI consistency by comparing current images to baseline images. Key concepts include baseline images, diffing, and automated tools. Remember to update baselines and set appropriate thresholds.