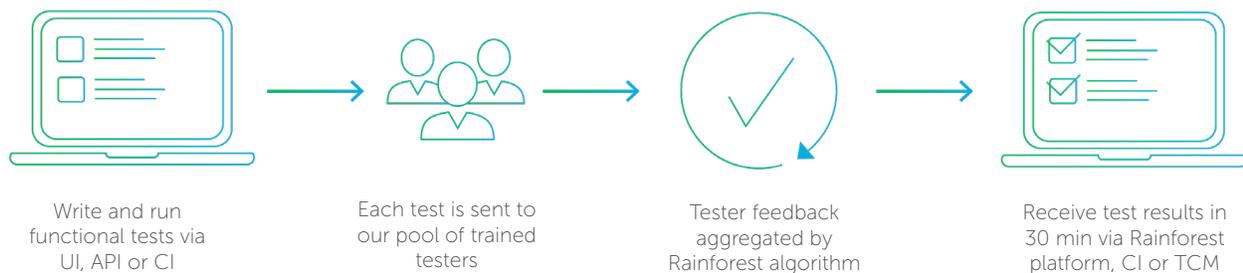


# Machine Automation with Human Context

Rainforest QA takes a data-driven approach to QA testing. We combine a group of trained, crowdsourced testers with our Rainforest result aggregation algorithms and machine learning to weight and verify test results. This hybrid approach lets us return high-quality test results in about 30 minutes, and ensures that our customers gain as much insight as possible into the health and quality of their products.

## How Rainforest Leverages AI to Accelerate QA Testing

Rainforest leverages a large network of crowdsourced testers to run tests quickly, enabling organizations to easily run functional and regression tests without the headache of managing a team of testers or a suite of automated tests. When you run a regression test in Rainforest, qualified Rainforest testers are selected to execute it. Their feedback and results are weighted by our result aggregation algorithms and condensed into a definitive "Pass" or "Fail" result, which is presented alongside detailed feedback on the test run. Results can be viewed on the Rainforest platform, or they can be automatically exported to your continuous integration (CI) server or test case management platform (TCM).



## Machine Learning-Verified Test Results

Rainforest testers have executed over 72 million test steps in the Rainforest platform. The data collected from those tests has allowed our team to develop machine learning algorithms that can identify subpar work and prevent poor testing habits from impacting our customers' test results. Rainforest's tests are verified by machine learning to ensure consistent, high-quality results.

As testers navigate through each test, we collect data about mouse movement, clicking behaviors, the speed of progression through tests, and more. With this information, we are able to identify any tester activity that isn't representative of our testers' best quality work. These tests are considered to be rejected by the tester, and the tester's actions and feedback are omitted from the final results of the test run.

## Rainforest Tester Training and Quality Monitoring

### Where We Find Our Qualified Testers



Rainforest testers are sourced through Amazon Mechanical Turk. Before any new tester can start running tests for Rainforest customers, they must complete an initial training course. This tutorial teaches them how to use the Rainforest platform, from understanding best practices for executing tests, to learning how to deal with complex tests and edge cases.

Each tester has an internal quality rating based on their history of testing work at Rainforest.

### Continual Training for Tester Quality

Training doesn't stop after testers are onboarded. All Rainforest testers are periodically given training sessions to keep them up-to-date with our customers' testing standards and requirements. To ensure that they are executing tests consistently and correctly, testers are continually evaluated on their performance on various axes. We pay special attention to new testers and build up trust as their testing performance improves.

### Using Machine Learning to Validate Tester Performance

Rainforest has strict criteria about how much evidence is needed from testers before passing on the final result to a customer. Testers who have provided consistently high-quality results to our customers have a higher Tester Quality Rating.

To ensure that Rainforest customers receive the most accurate results possible, answers from testers with higher Tester Quality Ratings are prioritized when our customers run tests in Rainforest. Test results from individual testers are weighted according to how much each tester is trusted. Each tester's activities for a given run are validated by our machine learning algorithms to ensure that sloppy work does not slip through the cracks.

## About Rainforest QA

Rainforest QA helps agile and continuous delivery engineering teams move faster with the industry's only AI-powered crowdtesting platform. Our platform leverages 60,000 qualified testers to deliver on-demand, comprehensive and machine learning-verified regression test results. Rainforest customers spend less time and money testing so they can ship better applications faster. For more information on Rainforest, visit <https://www.rainforestqa.com>.