

TidBIT

Robert F. Kennedy once asked, "Automation provides us with wondrous increases of production and information, but does it tell us what to do with the men the machine replaces?" As software automation becomes more prevalent, what implications does this have for quality engineers? Although there are many benefits of using automation, there may be some downfalls as well. As you review this resource section, consider the pros and cons.



Required Resources

Reading: [The QA Engineer Role is Changing to Keep Pace with Automation ↗](https://hackernoon.com/the-qa-engineer-role-is-changing-to-keep-pace-with-automation-e87853cf9a90)

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This article describes how software testing is changing on the basis of automation and how it is impacting the software development industry. As you read, consider the following questions:

- What did quality assurance (QA) engineers have to do before there was test automation?
- What type of software has changed how QA operates?
- What is the continuous integration/continuous deployment pipeline?



Additional Support (Optional)

Video: [Java Cucumber Tutorial 01 \(Setting Up Cucumber\) | QAShahin ↗](https://www.youtube.com/watch?v=pD4B839qfos)

(<https://www.youtube.com/watch?v=pD4B839qfos>) (22:56)

This tutorial provides a high-level overview of behavior-driven development (BDD) using Cucumber. Cucumber is a technology that uses the Gherkin language to generate tests based on requirement specifications. Although you did not use Cucumber directly in this course, it's important to be familiar with how it works for future courses or professional uses. As you review the tutorial, consider the following questions:

- What is Cucumber?
- What is BDD?

- What is the Gherkin language?

A transcript for this video is available: [Transcript for Java Cucumber Tutorial 01 \(Setting Up Cucumber\)](#)

(course_documents/CS%20320%20Transcript%20for%20Java%20Cucumber%20Tutorial%2001%20(Setting%20Up%20Cucumber).docx?ou=2074273).