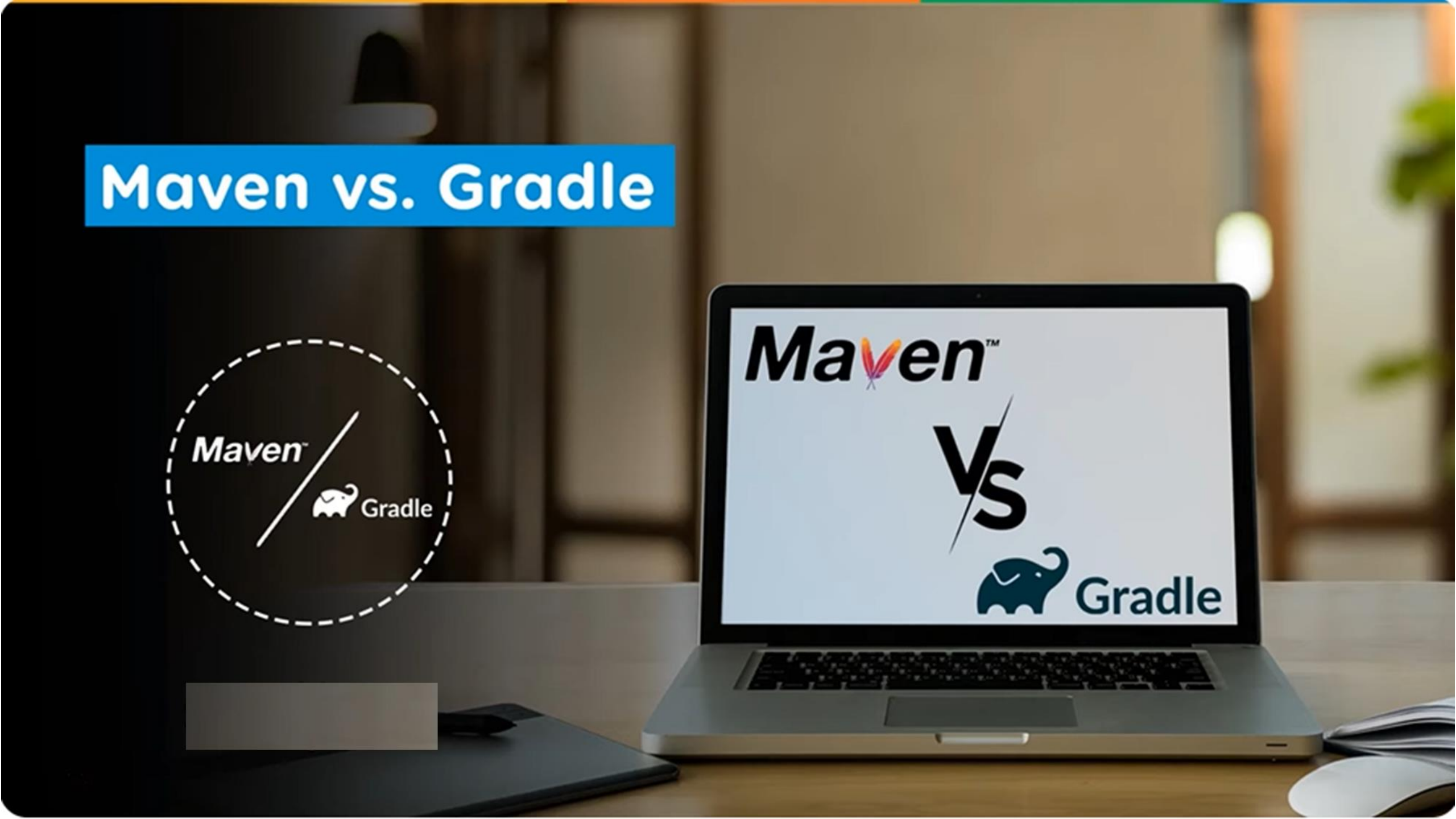
# Maven vs. Gradle



# What is Maven?

Maven is a popular open-source build tool developed by the Apache Group to build, publish, and deploy several projects at once

# What is Maven?

Maven is written in Java and is used to build projects written in C#, Scala, Ruby, etc.

# What is Maven?

The tool is chiefly used by Java Developers to simplify their daily build of projects

# What is Gradle?

# What is Gradle?

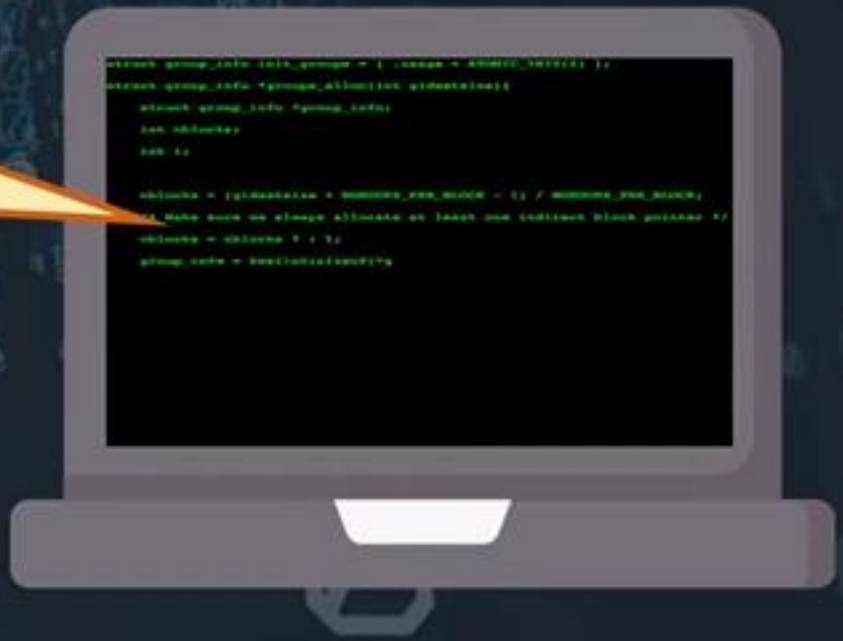
Gradle is a build automation tool known for its flexibility to build software

# What is Gradle?

The tool is known to build automation on many languages like Java, Scala, Android, C/C++, and Groovy

# What is Gradle?

Gradle provides building, testing and deploying software on several platforms



Maven™
Vs
Gradle
Maven vs. Gradle

# Maven vs. Gradle

## Based on

Maven is based on developing Java based software

Gradle is based on developing domain-specific language projects

# Maven vs. Gradle

## Focus

Maven focuses on developing applications within the deadlines

Gradle focuses on developing applications by adding new features

# Maven vs. Gradle

## Configuration

Maven uses Extensible Markup Language or XML for making project structure

Gradle uses Groovy-based Domain Specific language for making project structure

# Maven vs. Gradle

## Languages

Maven supports development in languages like Scala, C#, and Ruby

Gradle supports development in languages like Java, C, C++, and Groovy

# Maven vs. Gradle

## Customization

Maven provides a limited number of parameters and is not much customizable

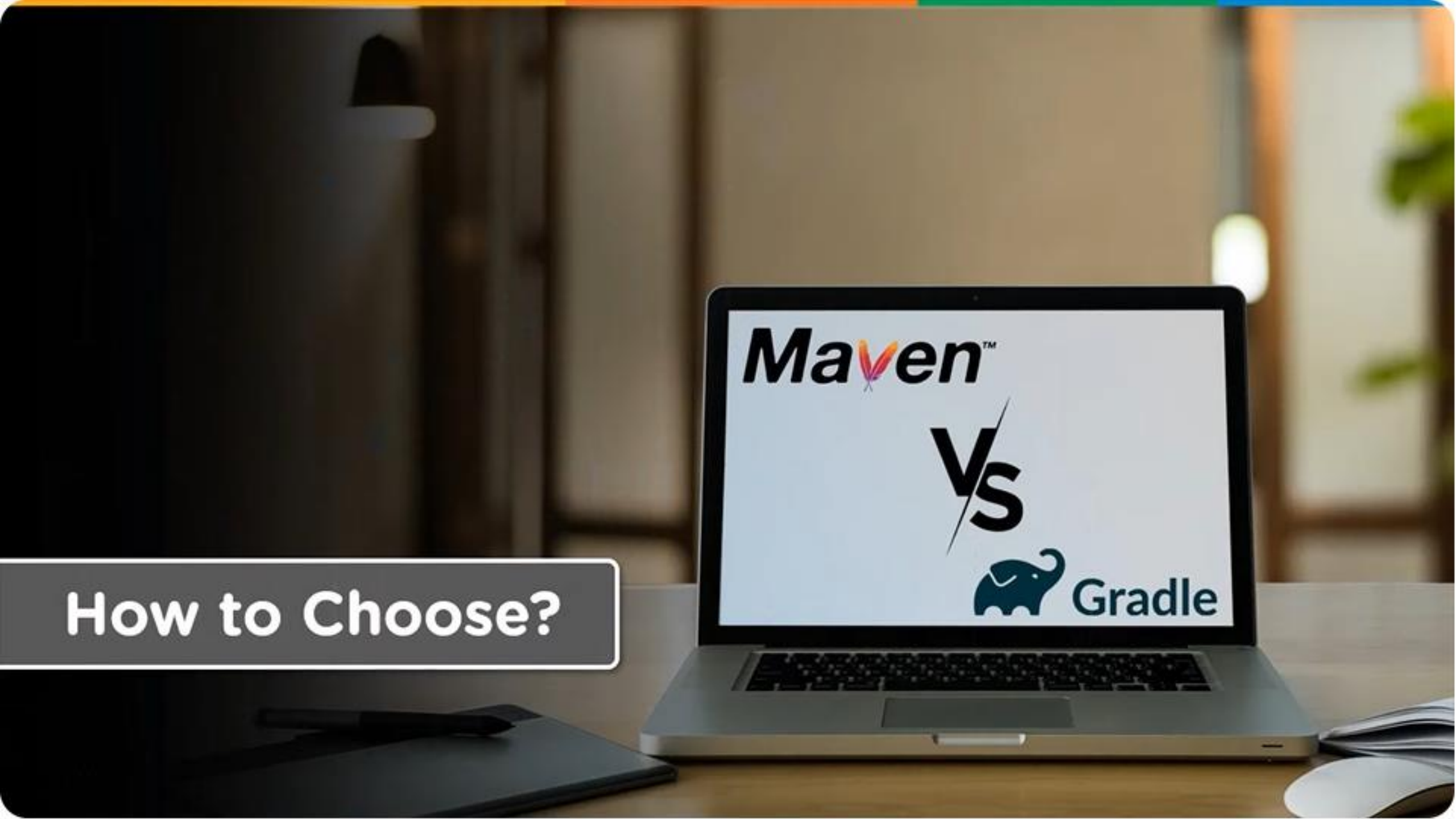
Gradle is highly customizable, providing a large range of IDE support builds

# Maven vs. Gradle

## Performance

Maven does not build cache, that makes the build time slower

Gradle performs better than Maven as it tracks only the current task


Maven™
Vs
Gradle
How to Choose?

# How to choose?

- The tools have their own respective pros and cons
- Though Gradle is more powerful, you don't need most of those functionalities all of the time
- Maven is great for small projects, while Gradle is the best for bigger projects

How to choose?

Even if later in any phase you think your project has outgrown, you can migrate from Maven to Gradle

# Workshop

- Download and follow instructions

- link