

jQuery

기초, 선택자

소개

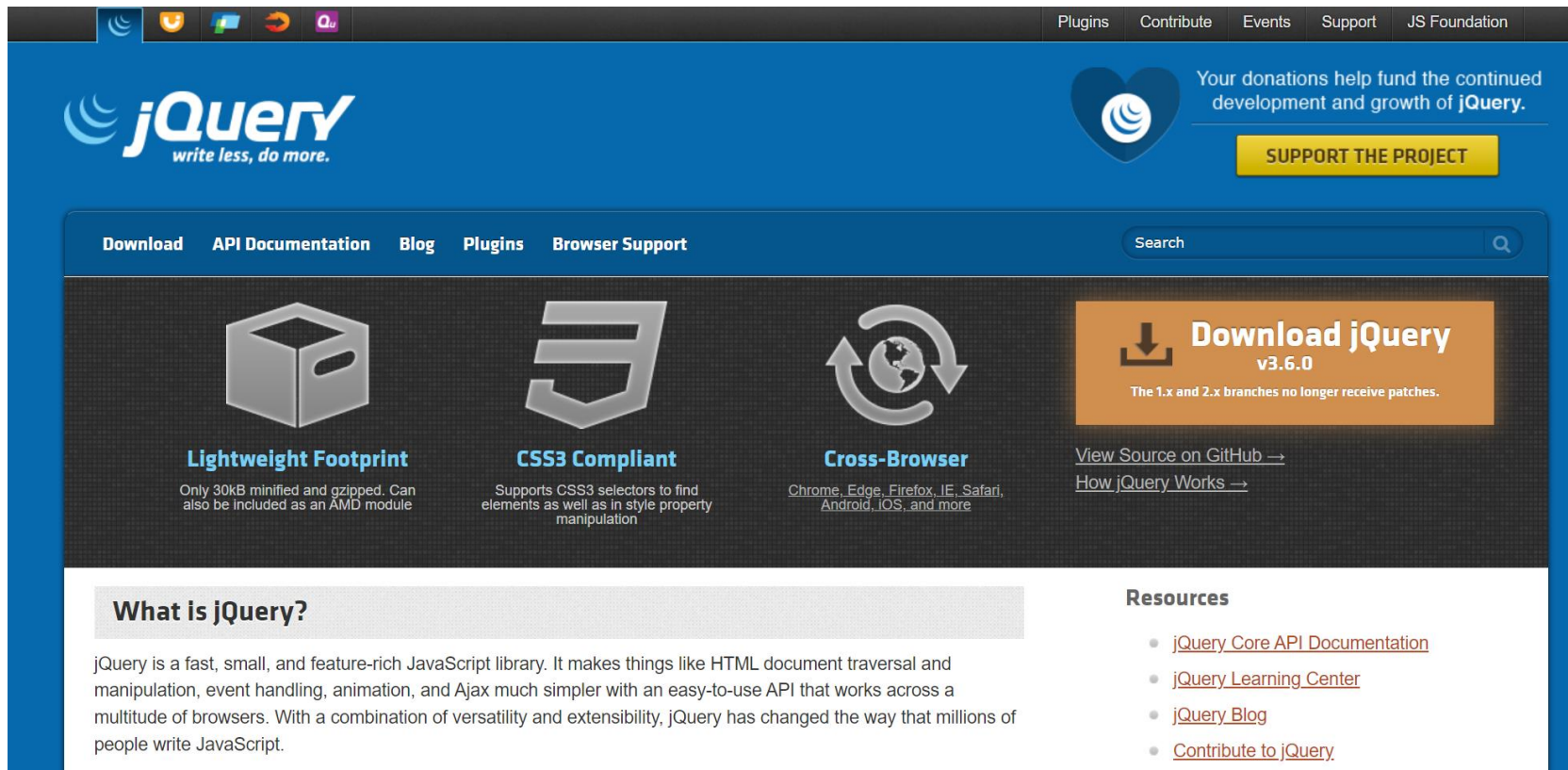
- 모든 브라우저에서 실행되는 클라이언트 프로그래밍 언어
- 2006년 존 레식이 뉴욕 시 바 캠프에서 공식적으로 소개
- 간략, 강력하게 사용할 수 있도록 설계
- 가장 인기있는 JavaScript 라이브러리

주요기능

- CSS 선택터를 활용한 태그 접근
- 이벤트 처리
- 특수 효과 및 애니메이션
- Ajax
- JSON 파싱
- 플러그인을 통한 확장성
- 멀티 브라우저 지원

jQuery 사이트

- <http://jquery.com>



jQuery 종류

- jQuery
- jQuery UI
- jQuery Mobile

정리

- jQuery는 JavaScript를 보다 편리하고 강력하게 사용할 수 있도록 만든 JavaScript 라이브러리
- 모든 브라우저에서 동일하게 동작
- 다양한 기능을 제공

작업 폴더 만들기

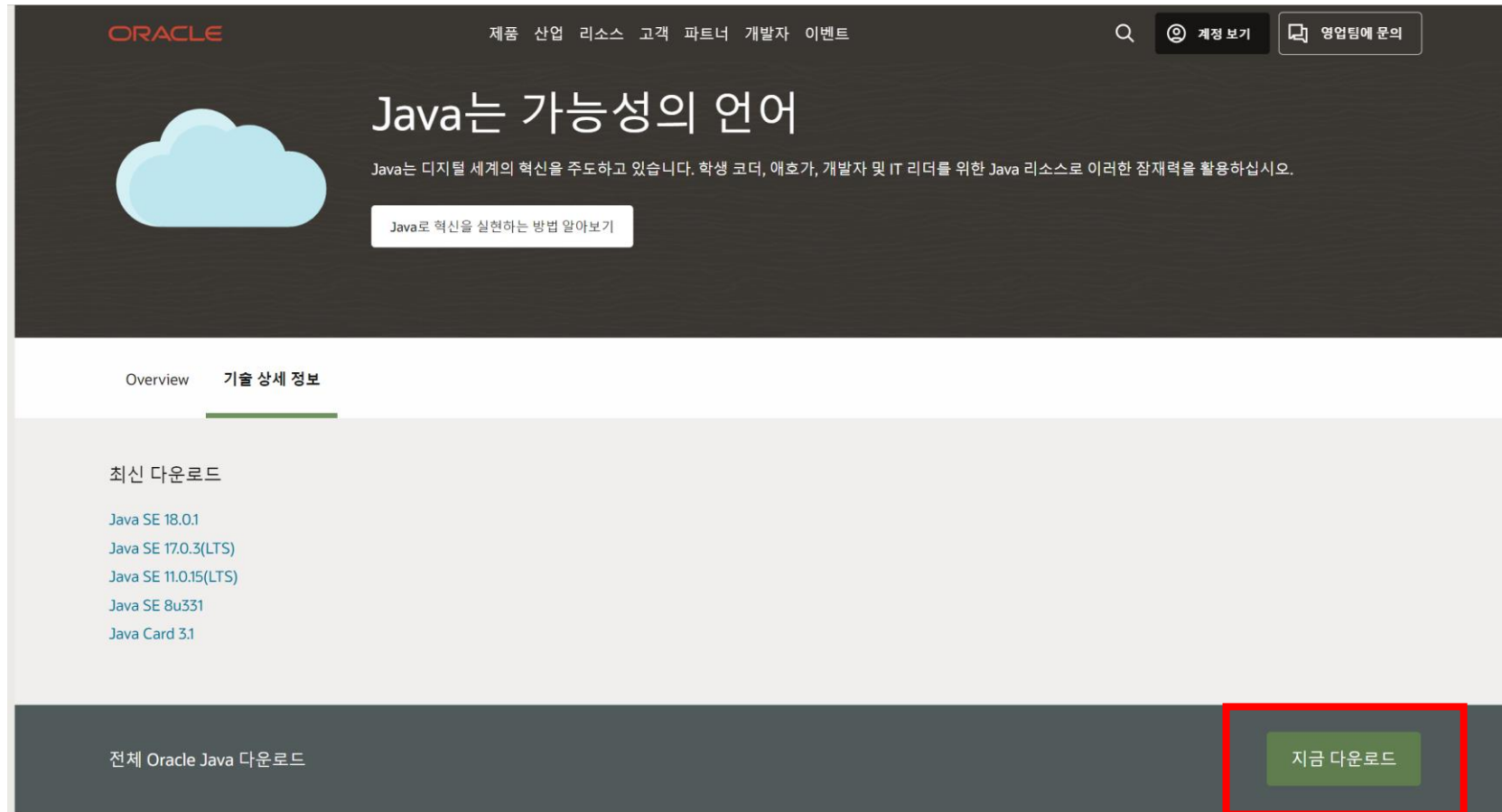
- C드라이브 밑에 jQuery 처럼 각자 사용할 작업폴더 만들기

개발환경 구성


- JDK 설치
- 이클립스
- Apache tomcat
- 웹 브라우저




JDK 설치

- <http://java.sun.com>



JDK 설치

Products Industries Resources Customers Partners Developers Events


View AccountsContact Sales



- Solaris 10
- Solaris Legacy Containers
- VM Server
- Oracle Linux with the Unbreakable Enterprise Kernel
- Solaris 11
- Sun ZFS Storage Appliance Plugins
- VM VirtualBox

Java

- Event Processing for Java Embedded
- Java (JRE) for Consumers
- Java ME Embedded
- Java SE
- Java Card
- Java (JDK) for Developers
- Java ME Embedded Client
- Java SE Embedded
- Java EE & GlassFish Server
- Java for Mobile
- Java ME SDK
- Java TV
- Java Embedded Suite
- Java ME
- Java Runtime Environment (JRE)

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Java downloadsTools and resourcesJava archive

Java 18Java 17

Java SE Development Kit 18.0.1.1 downloads

Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications and components using the Java programming language.

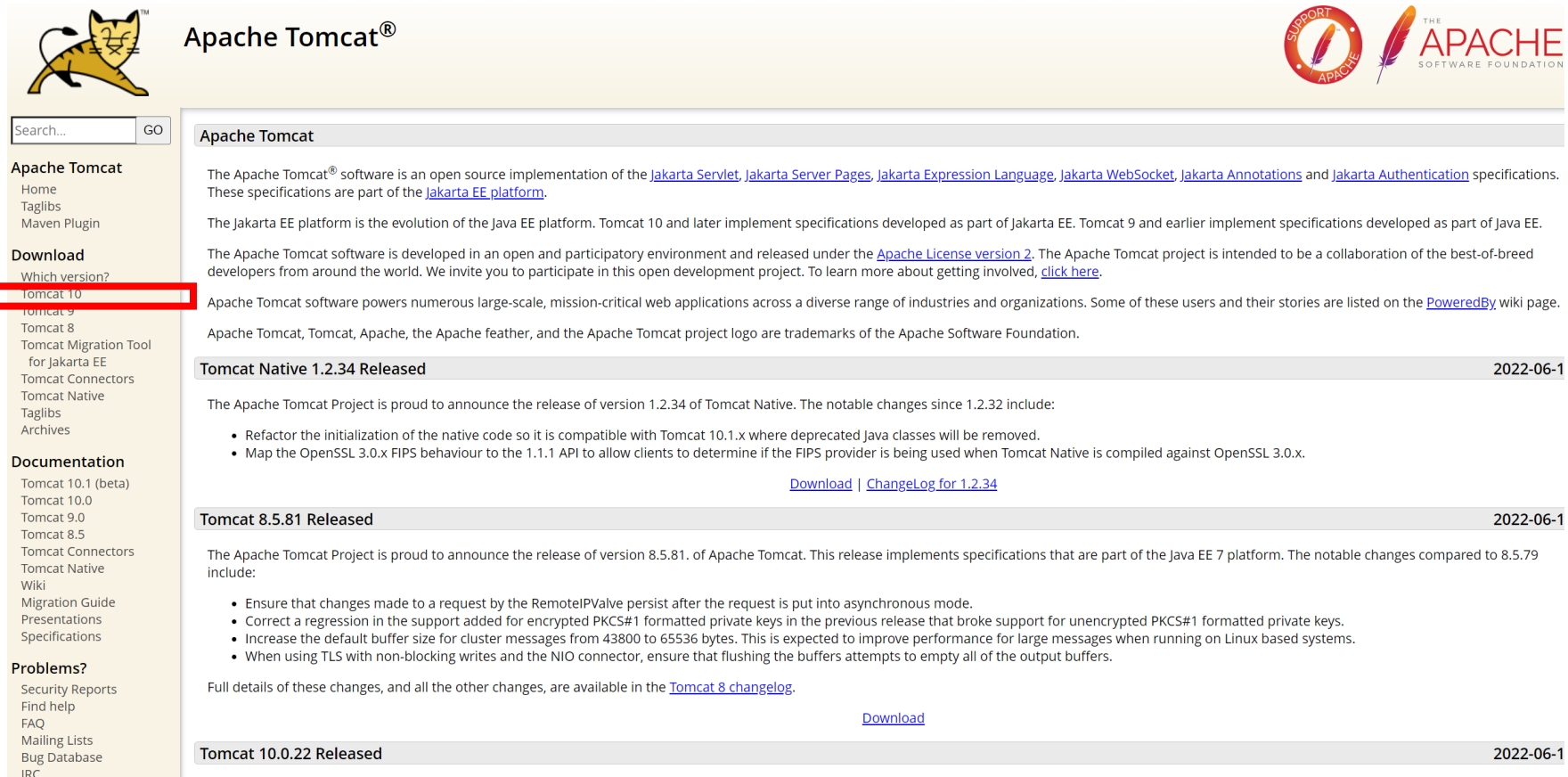
The JDK includes tools for developing and testing programs written in the Java programming language and running on the Java platform.

LinuxmacOS**Windows**

Product/file description	File size	Download
x64 Compressed Archive	172.8 MB	https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.zip (sha256 🔗)
x64 Installer	153.38 MB	https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.exe (sha256 🔗)
x64 MSI Installer	152.26 MB	https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.msi (sha256 🔗)

Apache tomcat 설치

- <http://tomcat.apache.org>



The screenshot shows the Apache Tomcat website. The top navigation bar includes the Apache Tomcat logo, a search bar, and the Apache Software Foundation logo. The left sidebar contains links for Home, Taglibs, Maven Plugin, Download, Documentation, and Problems?. The 'Download' section is highlighted with a red box, and 'Tomcat 10' is selected. The main content area displays the 'Apache Tomcat' section, which includes a description of the software, a list of specifications, and a list of releases. The 'Tomcat Native 1.2.34 Released' section is highlighted, and the 'Tomcat 8.5.81 Released' section is also visible. The 'Tomcat 10.0.22 Released' section is at the bottom.

Apache Tomcat®

Search... GO

Apache Tomcat

- Home
- Taglibs
- Maven Plugin

Download

- Which version?
- Tomcat 10**
- Tomcat 9
- Tomcat 8
- Tomcat Migration Tool for Jakarta EE
- Tomcat Connectors
- Tomcat Native
- Taglibs
- Archives

Documentation

- Tomcat 10.1 (beta)
- Tomcat 10.0
- Tomcat 9.0
- Tomcat 8.5
- Tomcat Connectors
- Tomcat Native
- Wiki
- Migration Guide
- Presentations
- Specifications

Problems?

- Security Reports
- Find help
- FAQ
- Mailing Lists
- Bug Database
- IRC

Apache Tomcat

The Apache Tomcat® software is an open source implementation of the [Jakarta Servlet](#), [Jakarta Server Pages](#), [Jakarta Expression Language](#), [Jakarta WebSocket](#), [Jakarta Annotations](#) and [Jakarta Authentication](#) specifications. These specifications are part of the [Jakarta EE platform](#).

The Jakarta EE platform is the evolution of the Java EE platform. Tomcat 10 and later implement specifications developed as part of Jakarta EE. Tomcat 9 and earlier implement specifications developed as part of Java EE.

The Apache Tomcat software is developed in an open and participatory environment and released under the [Apache License version 2](#). The Apache Tomcat project is intended to be a collaboration of the best-of-breed developers from around the world. We invite you to participate in this open development project. To learn more about getting involved, [click here](#).

Apache Tomcat software powers numerous large-scale, mission-critical web applications across a diverse range of industries and organizations. Some of these users and their stories are listed on the [PoweredBy](#) wiki page.

Apache Tomcat, Tomcat, Apache, the Apache feather, and the Apache Tomcat project logo are trademarks of the Apache Software Foundation.

Tomcat Native 1.2.34 Released 2022-06-1

The Apache Tomcat Project is proud to announce the release of version 1.2.34 of Tomcat Native. The notable changes since 1.2.32 include:

- Refactor the initialization of the native code so it is compatible with Tomcat 10.1.x where deprecated Java classes will be removed.
- Map the OpenSSL 3.0.x FIPS behaviour to the 1.1.1 API to allow clients to determine if the FIPS provider is being used when Tomcat Native is compiled against OpenSSL 3.0.x.

[Download](#) | [ChangeLog for 1.2.34](#)

Tomcat 8.5.81 Released 2022-06-1

The Apache Tomcat Project is proud to announce the release of version 8.5.81. of Apache Tomcat. This release implements specifications that are part of the Java EE 7 platform. The notable changes compared to 8.5.79 include:

- Ensure that changes made to a request by the RemoteIPValve persist after the request is put into asynchronous mode.
- Correct a regression in the support added for encrypted PKCS#1 formatted private keys in the previous release that broke support for unencrypted PKCS#1 formatted private keys.
- Increase the default buffer size for cluster messages from 43800 to 65536 bytes. This is expected to improve performance for large messages when running on Linux based systems.
- When using TLS with non-blocking writes and the NIO connector, ensure that flushing the buffers attempts to empty all of the output buffers.

Full details of these changes, and all the other changes, are available in the [Tomcat 8 changelog](#).

[Download](#)

Tomcat 10.0.22 Released 2022-06-1

Apache tomcat 설치

Taglibs
Archives

Documentation

Tomcat 10.1 (beta)
Tomcat 10.0
Tomcat 9.0
Tomcat 8.5
Tomcat Connectors
Tomcat Native
Wiki
Migration Guide
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Problems?

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Find help
FAQ
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Bug Database
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Managers. We also provide [SHA-512](#) checksums for every release file. After you download the file, you should calculate a checksum for your download, and make sure it is the same as ours.

Mirrors

You are currently using <https://d1cdn.apache.org/>. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are *backup* mirrors (at the end of the mirrors list) that should be available.

Other mirrors:

10.0.22

Please see the [README](#) file for packaging information. It explains what every distribution contains.

Binary Distributions

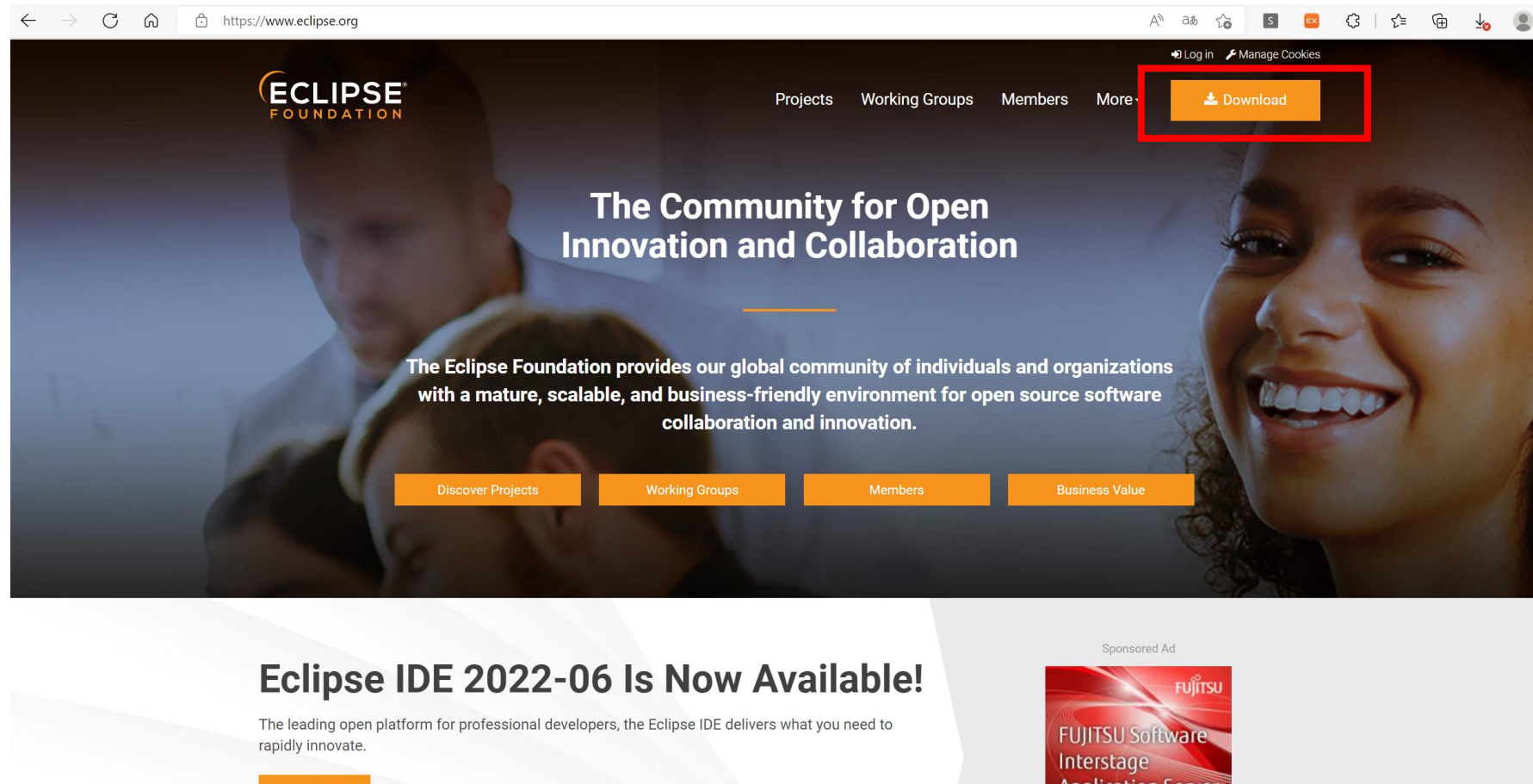
- Core:
 - [zip](#) ([pgp](#), [sha512](#))
 - [tar.gz](#) ([pgp](#), [sha512](#))
 - [32-bit Windows zip](#) ([pgp](#), [sha512](#))
 - [64-bit Windows zip](#) ([pgp](#), [sha512](#))
 - [32-bit/64-bit Windows Service Installer](#) ([pgp](#), [sha512](#))
- Full documentation:
 - [tar.gz](#) ([pgp](#), [sha512](#))
- Deployer:
 - [zip](#) ([pgp](#), [sha512](#))
 - [tar.gz](#) ([pgp](#), [sha512](#))
- Embedded:
 - [tar.gz](#) ([pgp](#), [sha512](#))
 - [zip](#) ([pgp](#), [sha512](#))

Source Code Distributions


- [tar.gz](#) ([pgp](#), [sha512](#))
- [zip](#) ([pgp](#), [sha512](#))

이클립스(Eclipse)

- <https://www.eclipse.org/>




이클립스(Eclipse)

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The Eclipse Temurin™ project provides high-quality, TCK certified OpenJDK runtimes and associated technology for use across the Java™ ecosystem.

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Linux [x86_64](#) | [AArch64](#)

[Click here](#) to file a bug against Eclipse Web Tools Platform.

[Click here](#) to file a bug against Eclipse Platform.

[Click here](#) to file a bug against Maven integration for web projects.

[Click here](#) to report an issue against Eclipse Wild Web Developer (incubating).



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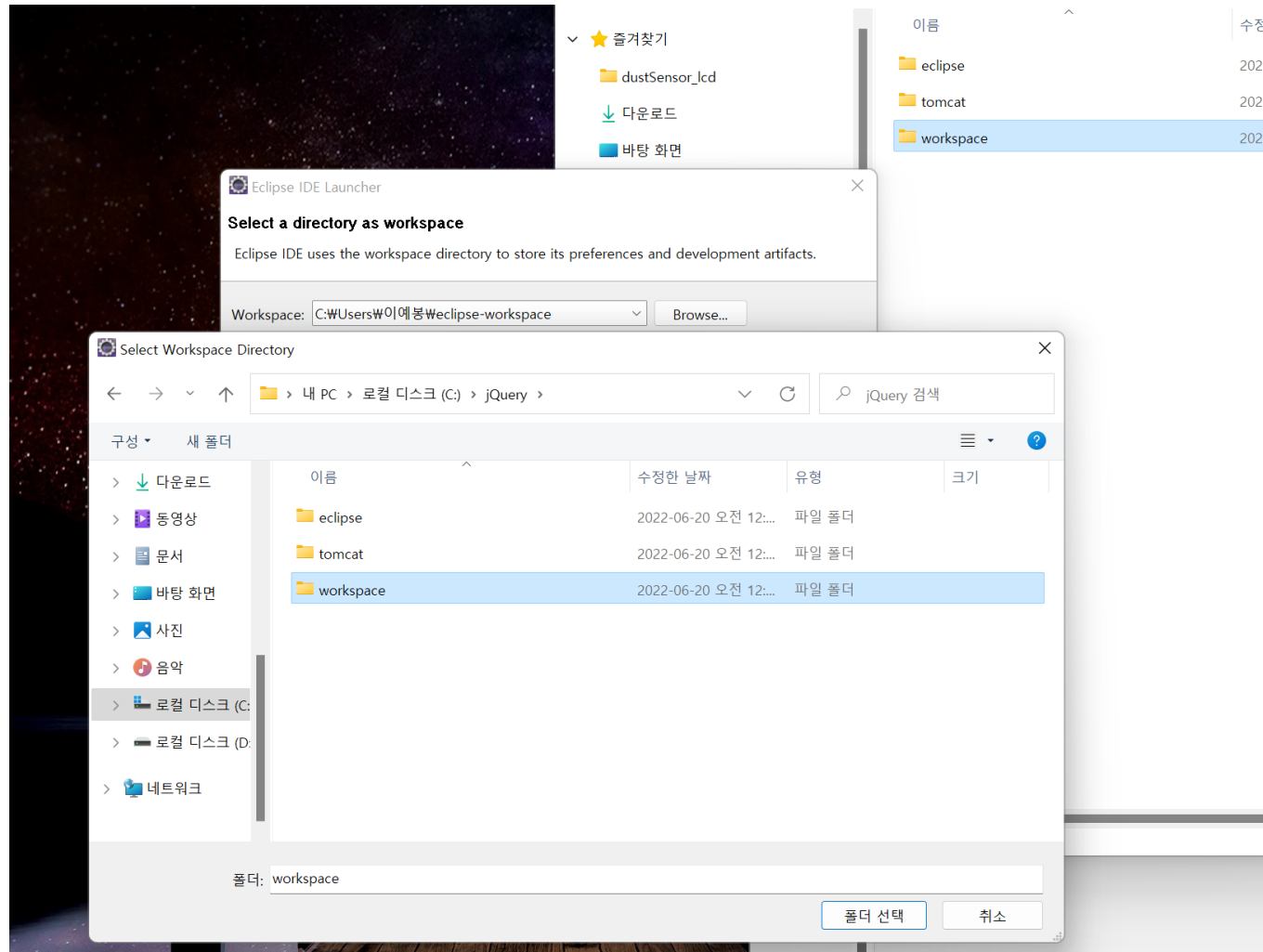
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- [Becoming a mirror site](#)
- [Updating and installing Eclipse components](#)

정리

- JDK
- 웹 브라우저
- 이클립스
- Apache Tomcat

이클립스 작업폴더 선택



이클립스 환경 설정 - 폰트

- Window -> Preferences -> General -> Appearance -> Colors and Fonts

이클립스 환경 설정 - 인코딩 설정

- Window -> Preferences -> General -> Content Types

이클립스 환경 설정 - 웹 브라우저 설정

- Window -> Preferences -> General -> Web Browser

이클립스 환경 설정 - 서버 설정

- Window -> Preferences -> Server -> Runtime Environment

프로젝트 만들기

- File -> New -> Dynamic Web Project

개발환경 테스트

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<h1> 개발환경 테스트</h1>
</body>
</html>
```

정리

- 작업 폴더 설정
- 폰트
- 인코딩
- 웹 브라우저 설정
- 서버 설정

JavaScript와 jQuery

- jQuery 라이브러리 다운로드
- [Http://jquery.com](http://jquery.com)
- CDN과 다운로드 방식 중 선택해서 사용

JavaScript와 jQuery

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<h1>h1 태그입니다</h1>
<button onClick="set_h1()">h1태그 문자열 변경</button>
<br/>

<ul>
<li>문자열1</li>
<li>문자열2</li>
<li>문자열3</li>
</ul>
<button onClick="get_li()">li태그 문자열 가져오기</button>
<div id="result"></div>
</body>
</html>
```


JavaScript

```
<script>
    function set_h1() {
        var h1 = document.getElementsByTagName("h1");
        var str = h1[0].firstChild;
        str.nodeValue = "JavaScript로 문자열 변경";
    }


    function get_li() {
        var li = document.getElementsByTagName("li");
        var result = document.getElementById("result");

        for(var idx in li) {
            var str = li[idx].firstChild;
            result.innerHTML += str.nodeValue + "<br/>";
        }
    }
</script>
```

jQuery




write less, do more.




Your donations help fund the continued development and growth of jQuery.

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Lightweight Footprint
Only 30kB minified and gzipped. Can also be included as an AMD module



CSS3 Compliant
Supports CSS3 selectors to find elements as well as in style property manipulation



Cross-Browser
Chrome, Edge, Firefox, IE, Safari, Android, iOS, and more






Download jQuery
v3.6.0
The 1.x and 2.x branches no longer receive patches.

[View Source on GitHub →](#)
[How jQuery Works →](#)

What is jQuery?

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

Other Related Projects



Resources

- [jQuery Core API Documentation](#)
- [jQuery Learning Center](#)
- [jQuery Blog](#)
- [Contribute to jQuery](#)
- [About the jQuery Foundation](#)
- [Browse or Submit jQuery Bugs](#)

jQuery

The second version helps you update code to run on jQuery 3.4 or higher, since you have used migrate from the deprecated jQuery 1.9 or higher.

[Download the compressed, production jQuery Migrate 3.4.0](#)

[Download the uncompressed, development jQuery Migrate 3.4.0](#)

Cross-Browser Testing with jQuery

Be sure to test web pages that use jQuery in all the browsers you want to support. The [Microsoft Developer Resources](#) site makes available [virtual machines](#) for testing many different versions of Internet Explorer. Older versions of other browsers can be found at [oldversion.com](#).

jQuery Pre-Release Builds

The jQuery team is constantly working to improve the code. Each commit to the Github repo generates a work-in-progress version of the code that we update on the jQuery CDN. *These versions are sometimes unstable and never suitable for production sites.* We recommend they be used to determine whether a bug has already been fixed when reporting bugs against released versions, or to see if new bugs have been introduced.

[Download the work-in-progress jQuery build](#)

Using jQuery with a CDN

[CDNs](#) can offer a performance benefit by hosting jQuery on servers spread across the globe. This also offers an advantage that if the visitor to your webpage has already downloaded a copy of jQuery from the same CDN, it won't have to be re-downloaded.

jQuery's CDN provided by [StackPath](#)


The jQuery CDN supports [Subresource Integrity](#) (SRI) which allows the browser to verify that the files being delivered have not been modified. This [specification](#) is currently being implemented by browsers. Adding the new integrity attribute will ensure your application gains this security improvement as browsers support it.

To use the jQuery CDN, just reference the file in the script tag directly from the jQuery CDN domain. You can get the complete script tag, including Subresource Integrity attribute, by visiting <https://code.jquery.com> and clicking on the version of the file that you want to use. Copy and paste that tag into your HTML file.


Starting with jQuery 1.9, [sourcemap files](#) are available on the jQuery CDN. However, as of version 1.10.0/2.1.0 the compressed jQuery no longer includes the sourcemap comment in CDN copies because it requires the uncompressed file and sourcemap file to be placed at the same location as the compressed file. If you are maintaining local copies and can control the locations all three files, you can add the sourcemap comment to the compressed file for easier debugging.

To see all available files and versions, visit <https://code.jquery.com>

jQuery



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jQuery CDN – Latest Stable Versions

Powered by **STACKPATH**

jQuery Core

Showing the latest stable release in each major branch. [See all versions of jQuery Core.](#)

jQuery 3.x

- jQuery Core 3.6.0 - [uncompressed](#), [minified](#), [slim](#), [slim minified](#)

jQuery 2.x

- jQuery Core 2.2.4 - [uncompressed](#), [minified](#)

jQuery 1.x

- jQuery Core 1.12.4 - [uncompressed](#), [minified](#)

jQuery Migrate

- jQuery Migrate 3.4.0 - [uncompressed](#), [minified](#)

jQuery

jQuery CDN – Latest Stable Versions

Powered by **STACKPATH**

Code Integration

```
<script
  src="https://code.jquery.com/jquery-3.6.0.min.js"
  integrity="sha256-/xUj+30JU5yExlq6GSYGSHk7tPXikynS7ogEvDej/m4="
  crossorigin="anonymous"></script>
```

The `integrity` and `corsorigin` attributes are used for [Subresource Integrity \(SRI\) checking](#). This allows browsers to ensure that resources hosted on third-party servers have not been tampered with. Use of SRI is recommended as a best-practice, whenever libraries are loaded from a third-party source. Read more at [srihash.org](#)



Copy to clipboard!

jQuery

```
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script>
    function set_h1() {
        $("h1").text("jQuery로 문자열 변경");
    }

    function get_li() {
        $("li").each(function(idx, obj) {
            var str = $(obj).text();
            $("#result").append(str + "<br/>");
        });
    }
</script>
```

정리

- jQuery를 사용하면 JavaScript 코드를 간결하게 작성