

Third Party Library Attributions

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Product Version: 7.0.0

1. Summary

This document contains a summary of the usage of the off-the-shelf (OTS) software at Calgary Scientific as well as a detailed review of the OTS software that is incorporated into the ResolutionMD server software, Web client, iOS mobile client, and PureWeb SDK.

ResolutionMD utilizes a number of OTS software components. These components usually provide small blocks of specific functionality to the product and industry standard packages are chosen where possible. The actual way in which each of these products is embedded into the product varies but from an end user perspective, these components are not individually identifiable and the overall product appears as a single entity.

Since the final product appears as a single package, installation of OTS components is automatically handled as part of the installation of ResolutionMD. Although these products have varying specifications and system requirements, they are included in the system as a whole and the system is tested as such. ResolutionMD has stated system requirements and specifications under which the whole product, including the OTS components, has been tested and validated against.

The acquisition of new OTS follows our internal procedures within the Quality Management System. When a new OTS product is included in our system, we track it in our code management system, either as source code or precompiled binaries, in the same manner as our own source code. Defects of any of these libraries are identified by the software engineering team through the build process, unit testing, and Quality Assurance (QA) testing.

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3. PureWeb iOS Client Libraries

3.1. Cocoa Lumberjack Framework

Project

<https://github.com/CocoaLumberjack/CocoaLumberjack>

License

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3.2. Sodium Crypto Library

Project

<https://download.libsodium.org/doc/>

License

[Internet Systems Consortium License](#)

4. ResolutionMD Server Libraries

4.1. Apache Commons

Project

<http://commons.apache.org/>

Description

Apache Commons is a repository of reusable Java components.

Usage

The configuration and collections components are used to manage server configuration information.

License

[Apache License](#)

4.2. Apache PDFBox

Project

<https://pdfbox.apache.org/>

Description

Apache PDFBox is an open source Java PDF library for working with PDF documents.

Usage

Used to render PDF document pages as images.

License

[Apache License](#)

4.3. Arial Unicode Font

Project

<http://catalog.monotype.com/family/monotype/arial-unicode>

Description

Arial Unicode font

Usage

Server side metadata rendering

License

Enterprise License with Monotype Imaging Inc.

4.4. Boost

Project

<http://www.boost.org/>

Description

Boost provides free peer-reviewed portable C++ source libraries.

Usage

Cross platform system wide locking. Date time libraries are used for date math.

License

Boost

License URL

http://www.boost.org/LICENSE_1_0.txt

```
Boost Software License - Version 1.0 - August 17th, 2003
```

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4.5. Bootstrap

Project

<http://twitter.github.com/bootstrap/>

Description

Sleek, intuitive, and powerful front-end framework for faster and easier web development.

Usage

Html layout framework (with many options).

License

[MIT](#).

4.6. Cairo

Project

<http://www.cairographics.org/>

Description

This library provides PDF and image rendering capabilities.

Usage

This library is primarily used for generating reports as either images or PDFs as required.

License

[MPL 1.1](#).

4.7. CanJS

Project

<http://canjs.us/>

Description

CanJS is a MIT-licensed, client-side, JavaScript framework that makes building rich web applications easy.

Usage

Javascript/HTML client side view templating

License

[MIT](#).

4.8. Curl

Project

<http://curl.haxx.se/libcurl/>

Description

libcurl is a free and easy-to-use client-side URL transfer library, supporting DICT, FILE, FTP, FTPS, Gopher, HTTP, HTTPS, IMAP, IMAPS, LDAP, LDAPS, POP3, POP3S, RTMP, RTSP, SCP, SFTP, SMTP, SMTPS, Telnet and TFTP. libcurl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, cookies, user+password authentication (Basic, Digest, NTLM, Negotiate, Kerberos), file transfer resume, http proxy tunneling and more! libcurl is highly portable, it builds and works identically on numerous platforms, including Solaris, NetBSD, FreeBSD, OpenBSD, Darwin, HPUX, IRIX, AIX, Tru64, Linux, UnixWare, HURD, Windows, Amiga, OS/2, BeOs, Mac OS X, Ultrix, QNX, OpenVMS, RISC OS, Novell NetWare, DOS and more. libcurl is free, thread-safe, IPv6 compatible, feature rich, well supported, fast, thoroughly documented and is already used by many known, big and successful companies and numerous applications.

Usage

Loading DICOM data from the DICOM Q/R service.

License

Custom

License URL

<http://curl.haxx.se/docs/copyright.html>

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4.9. dcm4che2

Project

<http://www.dcm4che.org/>

Description

dcm4che2 is a high performance, open source implementation of the DICOM standard.

Usage

dcm4che2 is used to perform DICOM network operations and some data processing.

License

[MPL 1.1](#)

License URL

<http://www.dcm4che.org/confluence/display/proj/license>

4.10. dcm4che3**Project**

<http://www.dcm4che.org/>

Description

dcm4che3 is a high performance, open source implementation of the DICOM standard.

Usage

dcm4che3 is used to parse DICOM metadata from a buffered InputStream such that the entire DICOM file does not need to be stored in memory in order to extract the DICOM pixel data bytes

License

[MPL 1.1](#)

License URL

<https://github.com/dcm4che/dcm4che/blob/master/LICENSE.txt>

4.11. dcm4che5**Project**

<http://www.dcm4che.org/>

Description

dcm4che5 is a high performance, open source implementation of the DICOM standard.

Usage

dcm4che5 is used to parse multipart DICOM responses for DICOM web connections.

License

[MPL 1.1](#)

License URL

<https://github.com/dcm4che/dcm4che/blob/master/LICENSE.txt>

4.12. DCMTK**Project**

<http://dicom.offis.de/dcm4che.php.en>

Description

This library provides a great deal of DICOM related functionality including network communication information, data file access, file creation and modification, and metadata parsing.

Usage

This library is used to provide a variety of DICOM access functionality within our application.

License

Custom, with the dcmjpeg module covered by a separate agreement with OFFIS.

```

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```

```

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// Author: Tad E. Smith
//
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4.13. Drools Expert

Project

<http://www.jboss.org/drools/downloads>

Description

Drools Expert is a declarative, rule based, coding environment

Usage

To control access to patient data

License

ASL 2.0

License URL

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4.14. Eclipse Implementation of JAXB

Project

<https://projects.eclipse.org/projects/ee4j.jaxb-impl>

Description

The Java™ Architecture for XML Binding (JAXB) provides an API and tools that automate the mapping between XML documents and Java objects. This project contains implementation of JAXB API.

Usage

Used for SOAP type data connections.

License

[Eclipse Distribution License 1.0 \(BSD\)](#)

4.15. Eclipse Metro

Project

<https://projects.eclipse.org/projects/ee4j.metro>

Description

Eclipse Metro is a high-performance, extensible, easy-to-use web service stack. It is a one-stop shop for all your web service needs, from the simplest hello world web service to reliable, secured, and transacted web service that involves .NET services.

Usage

Used for SOAP type data connections.

License

[Eclipse Distribution License 1.0 \(BSD\)](#)

4.16. Eclipse ORB

Project

<https://projects.eclipse.org/projects/ee4j.orb>

Description

Eclipse ORB is a runtime component that can be used for distributed computing using IIOP communication.

Usage

Used for SOAP type data connections.

License

[Eclipse Distribution License 1.0 \(BSD\)](#)

4.17. Eclipse Project for JAX-WS

Project

<https://projects.eclipse.org/projects/ee4j.jaxws>

Description

The Java API for XML Web Services (JAX-WS) is a Java programming language API for creating web services, particularly SOAP services. JAX-WS is one of the Java XML programming APIs. It is part of the Java EE platform.

Usage

Used for SOAP type data connections.

License

[Eclipse Distribution License 1.0 \(BSD\)](#)

4.18. FFmpeg

Project

<https://www.ffmpeg.org/>

Description

A complete, cross-platform solution to record, convert and stream audio and video.

Usage

Pre-compiled stand-alone binaries are used to convert AVI files to a format that can be played on all supported clients.

License

[GPL 2.0/LGPL 2.1](#)

4.19. FreeMarker

Project

<http://freemarker.org/>

Description

FreeMarker is a template engine: a Java library to generate text output based on templates and changing data.

Usage

Used for rendering custom RIS reports.

License

[Apache License](#)

License URL

http://freemarker.org/docs/app_license.html

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4.20. Freetype

Project

<http://freetype.sourceforge.net/index2.html>

Description

A library that generates bitmaps from true type fonts.

Usage

One of two libraries that is used to generate text that is displayed in the views.

License

FreeType

License URL

<http://freetype.sourceforge.net/FTL.TXT>

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o freetype@nongnu.org

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o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

<http://www.freetype.org>

--- end of FTL.TXT ---

4.21. FTGL

Project

<http://sourceforge.net/projects/ftgl/>

Description

This library provides freetype based font rendering in OpenGL.

Usage

This library is the second component for rendering text data into the views.

License

[MIT](#)

Note

This contradicts what is on the website <http://sourceforge.net/projects/ftgl/develop> claiming that it's LGPL. However, the COPYING file with the source is MIT.

4.22. Glew

Project

<http://glew.sourceforge.net/>

Description

Glew provides an easy way to map OpenGL extension function pointers.

Usage

Used to map the OpenGL function pointers before accessing them in our code.

License

Licensed under modified [BSD](#), Mesa 3D, Khronos.

License URL

<https://github.com/nigels-com/glew#copyright-and-licensing>

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Mesa 3-D graphics library
Version: 7.0

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4.23. google-code-prettify

Project

<https://code.google.com/p/google-code-prettify/>

Description

A Javascript module and CSS file that allows syntax highlighting of source code snippets in an html page.

Usage

Code prettification.

License

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<http://www.apache.org/licenses/LICENSE-2.0>

4.24. html5shiv

Project

<https://github.com/aFarkas/html5shiv>

Description

The HTML5 Shiv enables use of HTML5 sectioning elements in legacy Internet Explorer and provides basic HTML5 styling for Internet Explorer 6-9, Safari 4.x (and iPhone 3.x), and Firefox 3.x.

Usage

IE compatibility.

License

[MIT](#).

4.25. HAPI

Project

<https://hapifhir.github.io/hapi-hl7v2/>

Description

Open-source, object-oriented HL7 2.x parser for Java from University Health Network

Usage

HL7 message parsing for XDS documents.

License

[\[MPL 1.1\]](#)

License URL

<https://hapifhir.github.io/hapi-hl7v2/license.html>

4.26. ICU

Project

<http://site.icu-project.org/>

Description

ICU provides handling and conversion routines for manipulation of unicode character sets and encodings.

Usage

Used to convert between various encodings, assist with localization specific formatting, and comparison of unicode strings.

License

Custom

License URL

<http://source.icu-project.org/repos/icu/icu/trunk/license.html>

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4.27. ITK

Project

<http://www.itk.org/>

Description

ITK provides a variety of imaging and data access methods geared towards medical processing.

Usage

Not used directly but used as part of whole heart segmentation and other algorithms.

License

[BSD](#)

4.28. Java implementation of JSON Web Token (JWT)

Project

<https://github.com/auth0/java-jwt>

Description

A Java implementation of JSON Web Token (JWT) - RFC 7519.

Usage

Used for AVA NextGen VAMF JSON web token implementation.

License

[MIT](#)

License URL

<https://github.com/auth0/java-jwt/blob/master/LICENSE>

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4.29. Jersey

Project

<https://jersey.java.net/>

Description

Jersey RESTful Web Services framework is open source, production quality, framework for developing RESTful Web Services in Java that provides support for JAX-RS APIs and serves as a JAX-RS (JSR 311 & JSR 339) Reference Implementation.

Usage

Restful API's for the SecureURL service, specifically chosen to provide a WADL file for integrators.

License

[CDDL v1.1](#)

4.30. Joda-Time

Project

<http://www.joda.org/joda-time/>

Description

Joda-Time provides a quality replacement for the Java date and time classes. Joda-Time is the de facto standard date and time library for Java.

Usage

Used to parse DICOM dates and times for custom reporting.

License

[Apache License](#)

License URL

<http://www.joda.org/joda-time/license.html>

4.31. jQuery

Project

<http://jquery.com/>

Description

Sleek, intuitive, and powerful front-end framework for faster and easier web development.

Usage

Html layout framework (with many options).

License

[MIT](#).

4.32. jQuery File Upload Plugin

Project

<https://github.com/blueimp/jQuery-File-Upload>

Description

jQuery is a fast, small, and feature-rich JavaScript library.

Usage

Javascript/html code simplification through framework.

License

[MIT](#).

4.33. jQuery Hashchange

Project

<http://benalman.com/projects/jquery-hashchange-plugin/>

Description

This jQuery plugin enables very basic bookmarkable #hash history via a cross-browser window.onhashchange event.

Usage

IE 6 and 7 compatibility.

License

[MIT](#).

4.34. jQuery UI

Project

<http://jqueryui.com/>

Description

jQuery UI is a curated set of user interface interactions, effects, widgets, and themes built on top of the jQuery JavaScript Library. Whether you're building highly interactive web applications or you just need to add a date picker to a form control, jQuery UI is the perfect choice.

Usage

Configuration UI.

License

[MIT](#).

4.35. JSON Web Token support for the JVM

Project

<https://github.com/jwtk/jjwt>

Description

JJWT aims to be the easiest to use and understand library for creating and verifying JSON Web Tokens (JWTs) on the JVM and Android.

Usage

Used for AVA NextGen VAMF JSON web token implementation.

License

[Apache License](#)

4.36. jsoup Java HTML Parser

Project

<https://jsoup.org/>

Description

jsoup is a Java library for working with real-world HTML. It provides a very convenient API for extracting and manipulating data, using the best of DOM, CSS, and jquery-like methods.

Usage

McKesson HTML report processing

License

[MIT](#)

License URL

<https://jsoup.org/license>

The jsoup code-base (include source and compiled packages) are distributed under the open source MIT license as described below. The MIT License

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4.37. Lo-Dash

Project

<https://github.com/bestiejs/lodash>

Description

An alternative to Underscore.js, delivering consistency, customization, performance, and extra features.

Usage

Javascript utility library

License

[MIT](#).

4.38. libpng

Project

<http://www.libpng.org/pub/png/libpng.html>

Description

A library for encoding and decoding PNG images.

Usage

This library is primarily used to create PNG images during debugging.

License

PNG

License URL

<http://www.libpng.org/pub/png/src/libpng-LICENSE.txt>

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A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg" (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
September 23, 2010

4.39. llvm

Project

<http://llvm.org/>

Description

A library used to provide compiler infrastructure.

Usage

Used by Mesa 3D Graphics Library's llvmpipe to provide efficient OpenGL rendering on a linux machine.

License

Custom

License URL

<http://llvm.org/releases/3.2/LICENSE.TXT>

```

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LLVM Release License
=====
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Developed by:

    LLVM Team

    University of Illinois at Urbana-Champaign

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4.40. Mesa 3D Graphics Library

Project

<http://www.mesa3d.org/>

Description

Mesa is an open-source implementation of the OpenGL specification - a system for rendering interactive 3D graphics.

Usage

Used to provide OpenGL rendering when installed on a linux machine (generally a virtual machine) that does not have access to a graphics card.

License

Custom MIT Variant

License URL

<http://www.mesa3d.org/license.html>

Disclaimer

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Mesa Component Licenses

Component	Location	License
Main Mesa code	src/mesa/	Mesa (MIT)
Device drivers	src/mesa/drivers/*	MIT, generally
Ext headers	include/GL/glxt.h include/GL/glxext.h	Khronos

In general, consult the source files for license terms.

4.41. minizip

Project

<http://www.winimage.com/zLibDll/minizip.html>

Description

A library for creating and reading files compressed using the zip format.

Usage

Used for reading compressed DICOM files.

License

[zlib](#)

4.42. PixelMed

Project

<http://www.pixelmed.com>

Description

This is a stand-alone DICOM toolkit that implements code for reading and creating DICOM data, DICOM network and file support, a database of DICOM objects, support for display of directories, images, reports and spectra, and DICOM object validation.

Usage

Used to convert thumbnails from YBR to RGB in java

License

[BSD](#)

License URL

<http://www.dclunie.com/pixelmed/software/COPYRIGHT>

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4.43. requirejs

Project

<http://requirejs.org/>

Description

RequireJS is a JavaScript file and module loader. It is optimized for in-browser use, but it can be used in other JavaScript environments, like Rhino and Node. Using a modular script loader like RequireJS will improve the speed and quality of your code.

Usage

JavaScript module loading.

License

MIT or "New" BSD

License URL

<https://github.com/jrburke/requirejs/blob/master/LICENSE>

4.44. wysihtml5

Project

<https://github.com/xing/wysihtml5>

Description

Open source rich text editor based on HTML5 and the progressive-enhancement approach.

Usage

Html text editor

License

[MIT](#).

4.45. zlib

Project

<http://www.zlib.net/>

Description

This library provides data compression and decompression utilities.

Usage

Used for general data compression.

License

[zlib](#)

5. ResolutionMD iOS Client Libraries

5.1. Alamofire

Project

<https://github.com/Alamofire/Alamofire>

Description

Alamofire is an HTTP networking library written in Swift.

Usage

This is used to perform network operations between the server and client app.

License

[MIT](#)

5.2. AlamofireNetworkActivityIndicator

Project

<https://github.com/Alamofire/AlamofireNetworkActivityIndicator>

Description

AlamofireNetworkActivityIndicator controls the visibility of the network activity indicator on iOS using Alamofire.

Usage

AlamofireNetworkActivityIndicator is used to indicate network activity to an iOS user.

License

[MIT](#)

5.3. SWXMLHash

Project

<https://github.com/drmohundro/SWXMLHash>

Description

SWXMLHash is a relatively simple way to parse XML in Swift. If you're familiar with NSXMLParser, this library is a simple wrapper around it. Conceptually, it provides a translation from XML to a dictionary of arrays (aka hash).

Usage

This library is used for parsing xml responses received from the server.

License

[MIT](#)

5.4. OCMock**Project**

<http://ocmock.org>

Description

OCMock is an Objective-C implementation of mock objects.

Usage

Used for testing.

License

[Apache 2.0](#)

5.5. OpenTok**Project**

<https://tokbox.com/opentok/libraries/client/ios/>

Description

The OpenTok iOS SDK lets you use OpenTok-powered video sessions in apps you build for iPad, iPhone, and iPod touch devices.

Usage

This library is used to provide audio-video collaboration functionality in the iOS application.

License

Enterprise License with TokBox Inc.

5.6. 360 | SpeechAnywhere**Project**

<https://www.nuancehealthcaredeveloper.com>

Description

Secure, cloud-based, clinical speech recognition with client-side software components for mobile device platforms, web browsers, and desktops.

Usage

This library is used to provide clinical report dictation functionality within the iOS application.

License

Enterprise License with Nuance Communications Inc.

6. ResolutionMD HTML Client Libraries

6.1. AngularJS**Project**

<https://angularjs.org/>

Description

HTML enhanced for web apps!

Usage

Base application framework, DOM and CSS animation management, local storage access, in-app routing, and various utilities.

License

[MIT](#)

License URL

<https://github.com/angular/angular.js/blob/master/LICENSE>

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6.2. angular-gettext

Project

<https://angular-gettext.rocketeer.be/>

Description

Super-simple translation support for Angular.JS.

Usage

Internationalization.

License

[MIT](#)

(The MIT License)

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6.3. angular-native-dragdrop

Project

<https://github.com/angular-dragdrop/angular-dragdrop>

Description

Angular-DragDrop is an angular HTML5 Drag and Drop directive written in pure with no dependency on JQuery.

Usage

Managing cross-browser drag and drop functionality.

License

[MIT](#)

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6.4. Forge

Project

<https://github.com/digitalbazaar/forge>

Description

A native implementation of TLS (and various other cryptographic tools) in JavaScript.

Usage

Generate SHA-512 hashes.

License

[BSD](#)

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6.5. jQuery

Project

<https://jquery.com/>

Description

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.

Usage

Document object model manipulation, element search.

License

[MIT](#)

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<http://jquery.com/>

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6.6. lodash

Project

<https://lodash.com/>

Description

A JavaScript utility library delivering consistency, modularity, performance, & extras.

Usage

Functional programming utilities.

License

[MIT](#)

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```

6.7. Moment.js

Project

<http://momentjs.com/>

Description

Parse, validate, manipulate, and display dates in JavaScript.

Usage

Date and time manipulation, validation, and formatting.

License

[MIT](#)

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```

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6.8. Pikaday

Project

<https://github.com/dbushell/Pikaday>

Description

A refreshing JavaScript Datepicker.

Usage

Date selection user interface.

License

[MIT](#)

```
The MIT License (MIT)
```

```
Copyright (c) 2014 David Bushell
```

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6.9. React

Project

<https://reactjs.org/>

Description

JavaScript library for building user interfaces.

Usage

Building encapsulated user interface components.

License

[MIT](#)

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```

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6.10. RxJS-DOM

Project

<http://reactivex.io/>

Description

HTML DOM Bindings for the Reactive Extensions for JavaScript.

Usage

Document object model event handling and manipulation.

License

[Apache License](#)

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6.11. RxJS

Project

<http://reactivex.io/>

Description

An API for asynchronous programming with observable streams.

Usage

Asynchronous data management and processing.

License

[Apache License](#)

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6.12. OpenTok

Project

<https://tokbox.com/developer/sdks/js/>

Description

The OpenTok.js library lets you use OpenTok-powered video sessions on the web.

Usage

This library is used to provide audio-video collaboration functionality in the HTML client.

License

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6.13. swfobject

Project

<https://code.google.com/p/swfobject/>

Description

SWFObject is an easy-to-use and standards-friendly method to embed Flash content, which utilizes one small JavaScript file.

Usage

Inclusion of Adobe Flash documents.

License

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