

HCL Compass

Version 2.0.0

Migration Guide from IBM ClearQuest to HCL Compass



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Migration from IBM ClearQuest to HCL Compass

This guide provides the information that you need to migrate from IBM ClearQuest to HCL Compass v2.0.0. The migration guide explains some of the differences that you might encounter between the two products.

Compass 2.0.0 can be installed on Windows and Linux platforms on x86_64 hardware. See the System Requirements document for a list of the operating systems supported by Compass.

Note: There is a separate document to help you migrate to HCL VersionVault from IBM Rational ClearCase.

Prerequisites

- You have the software and followed the instructions in the software order acknowledgment letter for accessing the License & Delivery portal and activating your entitlements. The letter describes how to create a license server and how to add entitlements to it.
- Java version 1.8 or later is installed, and the Java PATH environment variable is set. For more details, see the “Hardware, software, and database requirements” and “Reconfiguring Compass to use a different JRE” topics in the local Help.
- IBM Installation Manager version 1.8.2 or later is installed.
- If you are installing Compass on Linux and your database is on MS SQL server, you must first install the Microsoft ODBC driver for SQL server otherwise your database connection profiles will not be preserved, and you will have to reestablish them. See <https://docs.microsoft.com/en-us/sql/connect/odbc/linux-mac/installing-the-microsoft-odbc-driver-for-sql-server?view=sql-server-ver15> for instructions on installing the driver.

Important: The products cannot be installed on the same system. Additionally, ClearQuest and Compass, should not share a load balancer across brands (see note about Load Balance in the “Incompatible behavior” section). You do not have to uninstall IBM Rational ClearCase Remote Client or IBM Rational ClearTeam Explorer Extension.

Getting started with Compass

1. Download and review the System Requirements document.
2. Download your HCL product and extract the image on your computer.
You must provide to IBM Installation Manager the location of each extracted download.
3. Use IBM Installation Manager and the instructions in its help to install one or more HCL products. See the online help about using IBM Installation Manager to install the product.
4. Start the HCL product.

Uninstall IBM ClearQuest

See the HCL Compass local help for instructions about how to uninstall the IBM ClearQuest product.

Install Compass

See the HCL Compass local Help for instructions about how to install the HCL Compass product.

Note: During the Compass install, if you want to re-use your existing ClearQuest settings, such as your ClearQuest DB connections, select the “Use Preserved Settings” option from the Installation Manager.

Post install instructions

Attention: To avoid odd or unexplained behaviors, we recommend clearing your browser cache before opening the Compass Web for the first time.

Incompatible behavior

The following changes exist in this release:

HCL Compass Client version check

If using the client version, check the feature to restrict access to a ClearQuest database. The allowed version numbers will need to be changed to allow Compass to access that same database. The current value of the ALLOWED_CLIENT_VERSIONS master or schema property that are named will need to be updated to add a value for Compass. The new version must have a "Compass:" prefix that will identify it as applying only to Compass. For example, suppose access is currently restricted to ClearQuest 9.0.1 with a value of "9.0.1" in the property. To allow both ClearQuest and Compass to access the database, the new property value would need to be changed to "9.0.1 Compass:2.0". For instructions about how to set the property values, see the technote [21632013](#).

HCL Compass FTS support

Before uninstalling IBM ClearQuest, use the FTS command-line option of **prep_upgd_was_profiles** to create a backup of all your full-text search WebSphere Application Server profile data on the server, and delete the profiles. After installing Compass, use the **restore_was_profiles** command to restore the profiles. Once you restore your FTS with Compass, your FTS settings and functionality will continue to work as they used to work in ClearQuest.

For more details, see the "[Upgrading or reinstalling Compass in a full-text search deployment with multiple WebSphere profiles](#)" topic in the [HCL Compass Help](#).

BIRT Compass Reports and BIRT Designer

Your ClearQuest BIRT reports and designs will continue to work after migrating from IBM ClearQuest to HCL Compass v2.0.0. Follow the local Help steps for upgrading BIRT as documented in Help topics for BIRT reports.

Attention: If you have BIRT reports created using IBM Rational ClearQuest and you migrated to HCL Compass 2.0.0, those BIRT reports will [fail to appear](#) and [run](#) under HCL Compass 2.0.0. To fix those issues, see the [Appendix](#) technotes at the end of this document.

Load Balance

If you have IBM ClearQuest Web deployed in a load balance setting, you should plan to upgrade all servers at the same time. If you do not upgrade all servers, some users and even the same users, at times can end up seeing the ClearQuest Web UI while at other times may end up seeing the Compass Web UI. The reason for this is due to the way the load balancer works as such there is no control onto which Web server a user lands on when connecting to server.

ClearQuest Web settings migration

The “Settings” option that you had under IBM ClearQuest Web “Site Administration” options are not going to be preserved when you upgrade to HCL Compass Web. You need to record those settings and re-enter them after installing HCL Compass v2.0.0.

The same also applies to the “Settings” option under “Preferences”.

Single Sign-On

If you have configured Single Sign-On with ClearQuest, you will need to reconfigure it for Compass. You can use the same configuration files and script as used to set up SSO with ClearQuest. Some modifications to the configuration files may be needed to account for your new installation directories. If you require a new version of the configuration script, or additional guidance to reconfigure Single Sign-On, contact [HCL Support](#).

cq_setup.csh and cq_setup.sh

Migrating from IBM ClearQuest to HCL Compass does not preserve the cq_setup.csh and cq_setup.sh scripts. The scripts will be regenerated during install. Any customized scripts from a previous version will still be available in the Rational.preserve directory and you need to update the scripts, so they point to the correct binaries for Compass.

Perl 5.26

1. Compass 2.0.0 uses Perl 5.26. ClearCase and ClearQuest used Perl 5.16. Perl scripts from those products may need to be modified to be compatible as they may rely on Perl 5.16 behavior which has changed. Perl variables no longer can contain non-graphical ASCII control characters. For example, a Perl script may contain the literal character OXF to denote the \$OSNAME. That would now yield a syntactical error of the form:
"Unrecognized character \x0F; marked by <-- HERE after istry if \$<-- HERE near column 32 at...."
To fix the issue, you need to use the Perl variable \$^O.

For the list of special Perl variables and full description, see

<https://perldoc.perl.org/perl5240delta.html#ASCII-characters-in-variable-names-must-now-be-all-visible> and <https://perldoc.perl.org/perlvar.html>.

2. Perl @INC no longer contains '.' Perl's @INC is the array of directories that Perl uses to locate and load modules. A Perl script that needs to load a module from the current directory must now be modified to account for this. For example, you can add to your script:

```
use FindBin 1.51 qw( $RealBin );
use lib $RealBin;
```

3. "\C no longer supported in regex; marked by <-- HERE in m/%s/" Using \C in a Perl regular expression will yield this error. For more details, see <https://perldoc.perl.org/perldiag.html>.

4. "Unescaped left brace in regex is illegal here in regex; marked by <-- HERE in" This is an example of Perl's stricter checking of good syntax. The following example shows how the example can be fixed:

```
} elsif(m!\s*//{{NO_DEPENDENCIES}}!) {
```

change to to:

```
} elsif(m!\s*/^Q{{NO_DEPENDENCIES}}\E!) {
```

5. Carp.pm is no longer part of the CGI module and "fatalToBrowser" is no longer defined. Scripts using or requiring Carp.pm must no longer include it from CGI. For example:

```
use CGI::Carp qw(fatalToBrowser);
or
use CGI::Carp;
```

changes to:

```
use Carp;
```

Note: Use of the embedded_jni mode for the Perl Module Inline-Java is not supported with this release.

Recreate your MultiSite shipping server settings

If you are using IBM Rational ClearQuest MultiSite, you must process all packets in your shipping bays before migrating to HCL Compass. During this processing, other replica sites must pause sending new packets to the host being migrated. The uninstallation handles custom storage classes differently on Windows and Linux, see the following discussion of each platform. Note the following:

- You must select the **Use preserved settings** option when installing Compass.
- In addition, after you install Compass, you must recreate your customized MultiSite shipping server settings (for instance, the path to the receipt-handler, if you are using one).

On **Windows**, the default shipping bays and custom shipping are copied to the Rational.preserve folder during uninstallation. The installation will modify the value of the `HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Atria\ClearCase\CurrentVersion\MultiSite\StorageClass\default` Windows registry keys `ReturnBay` and `StorageBay` with the correct paths to those bays in the Compass installation directory. However, it will not update the Windows registry keys for custom storage classes. It will recreate any custom shipping bays you might have had and will move the contents from Rational.preserve to the new default and custom bays. When you are migrating from IBM Rational ClearQuest to HCL Compass, you must discard these old packets and shipping orders and regenerate them. Use the MultiSite control panel applet to update the shipping bay paths for custom storage classes.

On **Linux**, only the default bay is copied to the Rational.preserve folder during uninstallation. Any non-empty directory trees for custom storage classes under `/opt/ibm/RationalSDL/clearcase` will remain in the partial directory tree of the previous installation, as will the shipping.conf file. If the custom shipping bays are empty, the uninstallation process will remove them. On the installation of Compass, the preserved contents of the default shipping bays are copied to the new bays. When you are migrating from IBM Rational ClearQuest to HCL Compass, you must discard these old packets and shipping_orders and regenerate them. You will need to recreate the shipping bay directory structure and update the shipping.conf file for custom storage classes.

Compatible behavior

The following areas did not change in HCL Compass v2.0.0:

VB scripts using the CQClearQuest or CLEARQUEST object

Any VB scripts that use the top-level object CQClearQuest and CLEARQUEST will continue to work as-is.

OSLC

OSLC connections and settings did not change in HCL Compass v2.0.0. You can use the same OSLC connections with HCL Compass v2.0.0.

Custom packages

Existing schemas and modifying existing schemas and packages will continue to work as-is after migrating to HCL Compass v2.0.0.

MultiSite

If you are using ClearQuest in a MultiSite setup, your existing setup will continue to work. You can migrate one site at a time to complete your migration from ClearQuest to Compass.

HCL Compass documentation

- The Compass 2.0.0 Help is published on <https://help.hcltechsw.com/compass/2.0.0/com.hcl.compass.doc/webhelp/index.html> or you can access the HCL Compass Help installed with the product.

Support

For technical support, contact HCL Customer Support at <https://www.hcltech.com/products-and-platforms/support> and in addition to providing details for your issue, also provide the following information:

- Your name, company name, telephone number, and email address
- Your operating system, version number, and any applied service packs or patches
- Product name and release number
- Your Support Ticket Number (if you are following up on a previously reported problem)

For blogs, forums, and more for Compass, go to the HCL Software website at <https://www.hcltechsw.com/wps/portal>.

References

- The following table shows a list of the equivalent file paths for HCL Compass.

IBM ClearQuest Path	HCL Compass equivalent
C:\Program Files (x86)\IBM\RationalSDLC	C:\Program Files\HCL\CCM
C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest	C:\Program Files\HCL\CCM\Compass

- The following table shows a list of IBM ClearQuest Paths which are being preserved in HCL Compass:

C:\ProgramData\IBM\Rational.preserve\common
C:\ProgramData\IBM\Rational.preserve

- The following table shows examples of environment variables for HCL Compass.

IBM ClearQuest Environment Variables	HCL Compass equivalent
CLEARQUEST_HOME=C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest	COMPASS_HOME=C:\Program Files\HCL\CCM\Compass
RATIONAL_COMMON=C:\Program Files (x86)\IBM\RationalSDLC\Common	HCL_CCM_COMMON=C:\Program Files\HCL\CCM\Common
RATIONAL_COMMON_LIB=C:\Program Files (x86)\IBM\RationalSDLC\Common\lib	HCL_CCM_COMMON_LIB=C:\Program Files\HCL\CCM\Common\lib
RATIONAL_HOME=C:\Program Files (x86)\IBM\RationalSDLC	HCL_CCM_HOME=C:\Program Files\HCL\CCM
CQCLI_BIN_DIR=C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\cqcli\bin	
CQCLI_CLASSPATH=C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\cqcli\config;C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\cqcli\lib\cqcli.jar;C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\cqjni.jar;C:\Program Files (x86)\IBM\RationalSDLC\common\stpcmmn.jar;C:\Program Files (x86)\IBM\RationalSDLC\common\stpwwcm.jar;C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\stpcq.jar;C:\Program Files (x86)\IBM\RationalSDLC\common\java\icu\icu4j-4_8.jar	
CQCLI_CONFIG_DIR=C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\cqcli\config	
CQCLI_DOC_DIR=C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\cqcli\doc	
CQCLI_HOME=C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\cqcli	
CQCLI_LIB_DIR=C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\cqcli\lib	
CQCLI_MAN_DIR=C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\cqcli\doc\man	
CQCLI_PATH=C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest;C:\Program Files (x86)\IBM\RationalSDLC\Common;C:\Program Files (x86)\IBM\RationalSDLC\Common\JAVA\jre\bin;C:\Program Files	

(x86)\IBM\RationalSDLC\Common\JAVA\jre\bin\classic;C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\cqcli\bin	
JRE_HOME=C:\Program Files (x86)\IBM\RationalSDLC\Common\JAVA\jre	
CLASSPATH=C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest\cqjni.jar	CLASSPATH=C:\Program Files\HCL\CCM\ Compass \cqjni.jar
IBMLDAP_ALTHOME=C:\Program Files (x86)\IBM\RationalSDLC\common\codeset	IBMLDAP_ALTHOME=C:\Program Files\HCL\CCM\common\codeset
RATIONAL_ICU4J_DIR=C:\Program Files (x86)\IBM\RationalSDLC\common\java\icu	RATIONAL_ICU4J_DIR=C:\Program Files\HCL\CCM\common\java\icu

Note #1: CQCLI is no longer supported and as such its environment variables are not created.

Note #2: JRE_HOME is no longer needed and as such it is no longer set.

- The following table shows the list of the IBM ClearQuest environment variables preserved for HCL Compass.

IBM ClearQuest Environment Variables	HCL Compass equivalent
CLEARQUEST_HOME=C:\Program Files (x86)\IBM\RationalSDLC\ClearQuest	CLEARQUEST_HOME=C:\Program Files\HCL\CCM\Compass
RATIONAL_HOME=C:\Program Files (x86)\IBM\RationalSDLC	RATIONAL_HOME=C:\Program Files\HCL\CCM
RATIONAL_COMMON=C:\Program Files (x86)\IBM\RationalSDLC\Common	RATIONAL_COMMON=C:\Program Files\HCL\CCM\Common
RATIONAL_COMMON_LIB=C:\Program Files (x86)\IBM\RationalSDLC\Common\lib	RATIONAL_COMMON_LIB=C:\Program Files\HCL\CCM\Common\lib

Note: The IBM ClearQuest environment variables are preserved by name only. Their value now points to the location of where HCL Compass is installed. This allows you to continue using scripts and code that depends on IBM's environment variables and continue to work without needing to make any changes.

- The following table shows the Windows registry keys examples for HCL Compass.

IBM ClearQuest Windows Registry Keys	HCL Compass equivalent
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Rational Software	HKEY_LOCAL_MACHINE\SOFTWARE\HCL
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Rational Software\Common	HKEY_LOCAL_MACHINE\SOFTWARE\HCL\CCM
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Rational Software\ClearQuest	HKEY_LOCAL_MACHINE\SOFTWARE\HCL\Compass
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Rational Software\ClearQuest\9.0.0\Core\Databases	HKEY_LOCAL_MACHINE\SOFTWARE\HCL\Compass\2.0\Core\Databases
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Rational Software\ClearQuest Packages	HKEY_LOCAL_MACHINE\SOFTWARE\HCL\Compass Packages

Appendix: Troubleshooting known issues

There are two known issues with HCL Compass 2.0.0 that you could run into when migrating to HCL Compass 2.0.0 from IBM Rational ClearQuest. Please review those issues and apply the fix to resolve them.

Issue #1: BIRT Reports created with IBM Rational ClearQuest fail to run under Compass 2.0.0

Problem

If you have BIRT reports created using IBM Rational ClearQuest and you migrated to HCL Compass 2.0, those BIRT reports will fail to run under HCL Compass 2.0.0.

Symptom

Steps to reproduce:

- 1) Create BIRT reports using IBM Rational ClearQuest and verify that reports run.
- 2) Migrate to HCL Compass 2.0.0 and attempt to run BIRT reports created using IBM Rational ClearQuest. The report will fail with an error that may look like this:

```
org.eclipse.birt.report.engine.api.EngineException: An exception occurred during processing. Please see the following message for details:  
Cannot find or process the com.ibm.rational.clearquest.oda.jdbc.dataSource driver's data source extension configuration.  
Cannot find the ODA dataSource extension (com.ibm.rational.clearquest.oda.jdbc.dataSource).  
Check the workspace log file for any problems with loading the extension bundle and its dependencies.  
  
at  
org.eclipse.birt.report.engine.executor.ExecutionContext.addException(ExecutionContext.java:  
1252)  
at  
org.eclipse.birt.report.engine.executor.ExecutionContext.addException(ExecutionContext.java:  
1231)
```

Cause

BIRT report files, those with the extension “rptdesign”, that were generated using IBM Rational ClearQuest contain the plug-in names that BIRT uses to find the plug-ins it needs to run reports.

For IBM Rational ClearQuest, those plug-in names are “com.ibm.rational.clearquest.*”.

For HCL Compass 2.0.0, the plug-in names changed to “com.hcl.ccm.cq.*”.

Because of this change, BIRT is not able to find the plug-ins it needs to run reports.

Resolving the Problem

Attention: Test the fix outlined below in a test environment first. Back up your existing BIRT report files before applying the fix in production.

Attention: You will need to exit BIRT Eclipse Designer before you make this edit.

Procedure:

- 1) Locate all your BIRT report files, those with the extension “rptdesign”.
- 2) Edit the BIRT report files and change any occurrence of the text “com.ibm.rational.clearquest” to “com.hcl.ccm.cq”.
- 3) Test that the BIRT reports are now running.

Issue #2: BIRT Reports created with IBM Rational ClearQuest will not appear under HCL Compass 2.0.0

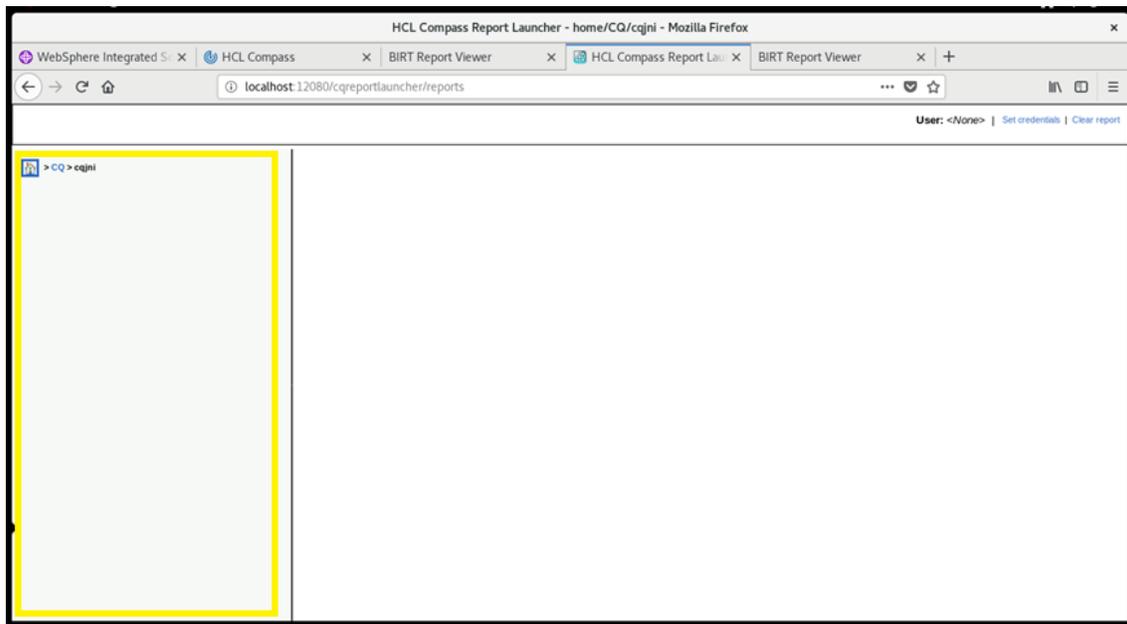
Problem

If you have BIRT reports created using IBM Rational ClearQuest and you migrated to HCL Compass 2.0.0 using the “Use Preserved Settings” option in the Installation Manger, those BIRT reports will not appear under HCL Compass 2.0.0.

Symptom

Steps to reproduce:

- 1) Create BIRT reports using IBM Rational ClearQuest and verify that reports run.
- 2) Migrate to HCL Compass 2.0 and make sure to select “Use Preserved Settings” when installing Compass 2.0.0.
- 3) Attempt run BIRT reports created using IBM Rational ClearQuest in Compass 2.0.0 and you will not see any of your reports. You will see an empty folder for your reports:



Cause

The use of “Use Preserved Settings” in the Installation Manager will keep your existing "reportlauncher.properties" file that was created for IBM Rational ClearQuest to be used with HCL Compass. This file contains references to IBM Rational ClearQuest plug-ins files that are now renamed in HCL Compass. As a result, when you try to start HCL Compass report launcher it is not able to load required plug-ins and thus it does not show any reports to run.

Resolving the Problem

Attention: Test the fix outlined below in a test environment first. Back up your existing “reportlauncher.properties” files before applying the fix in production.

Procedure:

1) Locate the file “reportlauncher.properties” which by default is at:

Windows:

```
C:\Program
Files\HCL\CCM\Compass\cqweb\cqwebprofile\installedApps\dfitCell\HCLCompassReportLaun
cher.ear\CQReportLauncher.war\WEB-INF\classes\reportlauncher.properties
```

Linux:

```
/opt/hcl/ccm/compass/cqweb/cqwebprofile/installedApps/dfitCell/HCLCompassReportLaun
cher.ear/CQReportLauncher.war/WEB-INF/classes/reportlauncher.properties
```

2) Edit the “reportlauncher.properties” and change all occurrences of the text “com.ibm.rational.clearquest” to “com.hcl.ccm.cq” and save the file.

3) Restart Compass Web.

Issue #3: Workaround UserAdmin not starting from ClearQuest Eclipse Designer

Problem

If you enable “Use Preserved Settings” during the installation of Compass 2.0.0, you cannot start the Windows User Administration tool from the Compass Eclipse Designer or launch the Compass Help application from the Windows Compass clients.

Cause

The use of “Use Preserved Settings” in the Installation Manager causes some registry keys to be set to the wrong value.

Resolving the problem

There are two workarounds for this problem. You only need to choose one.

1. Start the UserAdmin tool from the Windows Start Menu, Compass Windows Designer or the command line.

OR

2. Editing the following Windows registry keys:

```
[HKEY_LOCAL_MACHINE\SOFTWARE\HCL\Compass\2.0.0\Install]
```

```
"DATADIR"="C:\Program Files\HCL\CCM\Compass"
```

```
"InstallProductName"="Compass"
```

```
"SRCDIR"="Compass"
```

```
"TARGETDIR"="C:\Program Files\HCL\CCM\Compass"
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\HCL\Compass\2.0.0\Install\DataPath]
```

```
"DataPath"="C:\Program Files\HCL\CCM\Compass"
```