

com.gargoylesoftware.htmlunit

Class WebClient

```
WebClient()
WebClient(BrowserVersion)
WebClient(BrowserVersion, S. proxyHost, int proxyPort)
void addRequestHeader(String name, String value)
void addWebWindowListener(WebWindowListener)
void closeAllWindows()
prot. S. encodeQuery(S. query, bool. forceEncoding)
prot. URL encodeUrl(URL)
stat. URL expandUrl(URL, String relativeUrl)
Map<String,String> getActiveXObjectMap()
AjaxController getAjaxController()
AlertHandler getAlertHandler()
AttachmentHandler getAttachmentHandler()
BrowserVersion getBrowserVersion()
Cache getCache()
ConfirmHandler getConfirmHandler()
CookieManager getCookieManager()
CredentialsProvider getCredentialsProvider()
org.w3c.css.sac.ErrorHandler getCssErrorHandler()
WebWindow getCurrentWindow()
String getHomePage()
HTMLParserListener getHTMLParserListener()
IncorrectnessListener getIncorrectnessListener()
long getJavaScriptTimeout()
OnbeforeunloadHandler getOnbeforeunloadHandler()
<P extends Page> getPage(String url)
<P extends Page> getPage(URL)
<P extends Page> getPage(WebRequestSettings)
<P extends Page> getPage(WebWindow,
WebRequestSettings)
PageCreator getPageCreator()
boolean getPrintContentOnFailingStatusCode()
PromptHandler getPromptHandler()
ProxyConfig getProxyConfig()
RefreshHandler getRefreshHandler()
ScriptPreProcessor getScriptPreProcessor()
StatusHandler getStatusHandler()
int getTimeout()
List<TopLevelWindow> getTopLevelWindows()
WebWindow getWindowByName(String name)
List<WebWindow> getWindowList()
String guessContentType(File file)
boolean isActiveXNative()
boolean isAppletEnabled()
boolean isCssEnabled()
boolean isJavaScriptEnabled()
boolean isPopupBlockerEnabled()
boolean isRedirectEnabled()
boolean isThrowExceptionOnFailingStatusCode()
boolean isThrowExceptionOnScriptError()
WebResponse loadWebResponse(WebRequestSettings)
Page loadWebResponseInto(WebResponse, WebWindow)
```

```
WebWindow openWindow(URL, String windowName)
WebWindow openWindow(URL, S. windowName, WebWindow)
void removeRequestHeader(String name)
void removeWebWindowListener(WebWindowListener)
void setActiveXNative(boolean allow)
void setActiveXObjectMap(Map<String,String>)
void setAjaxController(AjaxController)
void setAlertHandler(AlertHandler)
void setAppletEnabled(boolean)
void setAttachmentHandler(AttachmentHandler)
void setCache(Cache)
void setConfirmHandler(ConfirmHandler)
void setCookieManager(CookieManager)
void setCredentialsProvider(CredentialsProvider)
void setCssEnabled(boolean)
void setCssErrorHandler
(org.w3c.css.sac.ErrorHandler)
void setCurrentWindow(WebWindow)
void setHomePage(String)
void setHTMLParserListener(HTMLParserListener)
void setIncorrectnessListener(IncorrectnessListener)
void setJavaScriptEnabled(boolean)
void setJavaScriptTimeout(long)
void setOnbeforeunloadHandler(OnbeforeunloadHandler)
void setPageCreator(PageCreator)
void setPopupBlockerEnabled(boolean)
void setPrintContentOnFailingStatusCode(boolean)
void setPromptHandler(PromptHandler)
void setProxyConfig(ProxyConfig)
void setRedirectEnabled(boolean)
void setRefreshHandler(RefreshHandler)
void setScriptPreProcessor(ScriptPreProcessor)
void setStatusHandler(StatusHandler)
void setThrowExceptionOnFailingStatusCode(boolean)
void setThrowExceptionOnScriptError(boolean)
void setTimeout(int timeout)
void setUseInsecureSSL(boolean)
```

Interface WebResponse

```
byte[] getContentAsBytes()
InputStream getContentAsStream()
String getContentAsString()
String getContentAsString(String encoding)
String getContentCharset()
String getContentCharsetOrNull()
String getContentType()
long getLoadTime()
WebRequestSettings getRequestSettings()
List<NameValuePair> getResponseHeaders()
String getResponseHeaderValue(S. headerName)
int getStatusCode()
String getStatusMessage()
```

Class WebResponseImpl

```
WebResponseImpl(WebResponseData, URL, HttpMethod,
long loadTime)
WebResponseImpl(WebResponseData, WebRequestSettings,
long loadTime)
```

Class StringWebResponse ext. WebResponseImpl

```
StringWebResponse(S. content, S. charset, URL)
StringWebResponse(S. content, URL)
```

Also: util.WebResponseWrapper.

Class WebRequestSettings

```
WebRequestSettings(URL)
WebRequestSettings(URL, HttpMethod)
WebRequestSettings(WebRequestSettings, URL)
Map<String,String> getAdditionalHeaders()
String getCharset()
CredentialsProvider getCredentialsProvider()
FormEncodingType getEncodingType()
HttpMethod getHttpMethod()
String getProxyHost()
int getProxyPort()
String getRequestBody()
List<NameValuePair> getRequestParameters()
URL getUrl()
void removeAdditionalHeader(S. name)
void setAdditionalHeader(S. name, S. value)
void setAdditionalHeaders(Map<String,String>)
void setCharset(String charset)
void setCredentialsProvider(CredentialsProvider)
void setEncodingType(FormEncodingType)
void setHttpMethod(HttpMethod)
void setProxyHost(String proxyHost)
void setProxyPort(int proxyPort)
void setRequestBody(String requestBody)
void setRequestParameters(List<NameValuePair>)
void setUrl(URL)
String toString()
```

Interface PageCreator

```
Page createPage(WebResponse, WebWindow)
```

Class DefaultPageCreator

```
DefaultPageCreator()
prot. HtmlPage createHtmlPage(WebResponse, W.Window)
prot. JavaScriptPage createJavaScriptPage(W.R., W.W.)
Page createPage(WebResponse, WebWindow)
prot. TextPage createTextPage(WebResponse, W.Window)
prot. UnexpectedPage createUnexpectedPage(W.R., W.W.)
prot. XHTMLPage createXHTMLPage(W.R., W.W.)
prot. XmlPage createXmlPage(WebResponse, WebWindow)
prot. String determinePageType(String contentType)
```

Interface Page

```
void cleanUp()
WebWindow getEnclosingWindow()
WebResponse getWebResponse()
void initialize()
```

Class UnexpectedPage

```
UnexpectedPage(WebResponse, WebWindow)
InputStream getInputStream()
```

Class html.HtmlPage extends SgmlPage

```
HtmlPage(URL, WebResponse, WebWindow)
void addHtmlAttributeChangeListener
(HtmlAttributeChangeListener)
prot. void checkChildHierarchy(Node)
prot. HtmlPage clone()
HtmlPage cloneNode(boolean deep)
Attr createAttribute(String)
Attr createAttributeNS(S. namespaceURI, S. name)
CDATASection createCDATASection(String data)
Comment createComment(String data)
DocumentFragment createDocumentFragment()
HtmlElement createElement(String tagName)
HtmlElement createElementNS(S. namespaceURI, S. name)
Text createTextNode(String)
void deregisterFramesIfNeeded()
ScriptResult executeJavaScript(String)
HtmlAnchor getAnchorByHref(String)
HtmlAnchor getAnchorByName(String)
HtmlAnchor getAnchorByText(String)
List<HtmlAnchor> getAnchors()
HtmlElement getBody()
HtmlElement getDocumentElement()
HtmlElement getElementByAccessKey(char accessKey)
HtmlElement getElementById(String elementId)
<E extends HtmlElement> getElementByName(String)
List<HtmlElement> getElementsByAccessKey(char)
List<HtmlElement> getElementsByIdAndOrName(String)
List<HtmlElement> getElementsByName(String)
DomNodeList<HtmlElement> getElementsByTagName(S.)
HtmlElement getFocusedElement()
HtmlForm getFormByName(String)
List<HtmlForm> getForms()
FrameWindow getFrameByName(String)
List<FrameWindow> getFrames()
URL getFullyQualifiedUrl(S. url)
<E extends HtmlElement> getHtmlElementById(String)
<E extends HtmlElement> getHtmlElementById(String,
boolean caseSensitive)
prot. List<HtmlMeta> getMetaTags(String httpEquiv)
Map<String, String> getNamespaces()
Document getOwnerDocument()
HtmlPage getPage()
String getPageEncoding()
```

```
String getResolvedTarget(String)
List<String> getTabbableElementIds()
List<HtmlElement> getTabbableElements()
String getTitleText()
boolean hasCaseSensitiveTagNames()
boolean isBeingParsed()
HtmlElement pressAccessKey(char)
Page refresh()
void removeHtmlAttributeChangeListener
(HtmlAttributeChangeListener)
void save(File)
prot. void setDocumentType(DomDocumentType)
boolean setFocusedElement(HtmlElement)
boolean setFocusedElement(HtmlElement, boolean
windowActivated)
void setTitleText(String)
HtmlElement tabToNextElement()
HtmlElement tabToPreviousElement()
String toString()
```

Class xml.XmlPage

```
XmlPage(Node, WebWindow)
XmlPage(WebResponse, WebWindow)
XmlPage(WebResponse, WebWindow, boolean
ignoreSAXException)
CDATASection createCDATASection(String data)
HtmlElement createElement(String tagName)
HtmlElement createElementNS(S. namespaceURI, S. name)
DomProcessingInstruction createProcessingInstruction
(String target, String data)
DomElement createElement(String tagName)
DomElement createElementNS(S. namespaceURI, S.
qualifiedName)
String getContent()
String getPageEncoding()
Document getXmlDocument()
boolean hasCaseSensitiveTagNames()
prot. void setDocumentType(DomDocumentType)
```

*Also: JavaScriptPage, TextPage, SgmlPage,
html.XhtmlPage extends html.HtmlPage*

Class html.DomNode

```
DomNode(SgmlPage)
void addDomChangeListener(DomChangeListener)
DomNode appendChild(Node)
String asText()
String asXml()
prot. void checkChildHierarchy(Node)
DomNode cloneNode(boolean deep)
short compareDocumentPosition(Node other)
prot. void fireNodeAdded(DomNode parentNode,
DomNode addedNode)
```

```
prot. void fireNodeDeleted(DomNode parentNode,
DomNode deletedNode)
Iterable<HtmlElement> getAllHtmlChildElements()
prot. List<Node> getAncestors(boolean includeSelf)
NamedNodeMap getAttributes()
List<?> getByXPath(String)
String getCanonicalXPath()
DomNodeList<DomNode> getChildNodes()
Iterable<DomNode> getChildren()
int getEndColumnNumber()
int getEndLineNumber()
<X> X getFirstByXPath(String)
DomNode getFirstChild()
DomNode getLastChild()
String getLocalName()
String getNamespaceURI()
DomNode getNextSibling()
abs. String getNodeName()
abs. short getNodeType()
String getNodeValue()
Document getOwnerDocument()
SgmlPage getPage()
DomNode getParentNode()
String getPrefix()
DomNode getPreviousSibling()
int getStartColumnNumber()
int getStartLineNumber()
String getTextContent()
boolean hasAttributes()
boolean hasChildNodes()
void insertBefore(DomNode newNode)
Node insertBefore(Node newChild, Node refChild)
boolean isAncestorOf(DomNode)
prot. boolean isBlock()
boolean isDisplayed()
boolean isSameNode(Node)
prot. boolean isTrimmedText()
void normalize()
prot. void notifyIncorrectness(String)
prot. void onAddedToPage()
prot. void onAllChildrenAddedToPage(boolean postponed)
prot. void printChildrenAsXml(String indent,
PrintWriter)
prot. void printXml(String indent, PrintWriter)
void remove()
void removeAllChildren()
Node removeChild(Node)
void removeDomChangeListener(DomChangeListener)
void replace(DomNode)
Node replaceChild(Node newChild, Node oldChild)
prot. void setNextSibling(DomNode)
void setNodeValue(String)
prot. void setParentNode(DomNode)
void setPrefix(String)
prot. void setPreviousSibling(DomNode)
void setTextContent(String)
```

Class `html.DomElement` extends ... `html.DomNode`

```
String    getAttribute(String attributeName)
String    getAttributeNS(S. namespaceURI, S. name)
Map<String, DomAttr> getAttributesMap()
DomNodeList<HtmlElement> getElementsByTagName(S.)
String    getTagName()
boolean   hasAttribute(String)
boolean   hasAttributeNS(S. n.s.URI, S. name)
prot. boolean isAttributeCaseSensitive()
prot. boolean isEmptyXmlTagExpanded()
prot. Map<String, String> namespaces()
prot. void printOpeningTagContentAsXml(PrintWriter)
void      removeAttribute(String)
void      removeAttributeNS(S. n.s.URI, S. name)
void      setAttribute(String name, String value)
```

Interface `WebWindow`

```
Page      getEnclosedPage()
History   getHistory()
String    getName()
WebWindow getParentWindow()
WebWindow getTopWindow()
WebClient getWebClient()
void      setEnclosedPage(Page)
void      setName(String name)
```

Class `WebWindowImpl`

```
WebWindowImpl(WebClient webClient)
prot. bool isJavaScriptInitializationNeeded()
prot. void performRegistration()
```

Class `TopLevelWindow` extends `WebWindowImpl`

```
TopLevelWindow(String name, WebClient)
void close()
WebWindow getOpener()
void setOpener()
String toString()
```

Also: `DialogWindow`, `FrameWindow`.

Interface `WebConnection`

```
WebResponse getResponse(WebRequestSettings)
```

Class `HttpWebConnection`

```
HttpWebConnection(WebClient)
prot. HttpClient createHttpClient()
prot. HttpClient getHttpClient()
prot. int getTimeout()
String getVirtualHost()
prot. WebResponseData newWebResponseDataInstance(String statusMessage, List<NameValuePair> headers, int statusCode, HttpMethodBase method)
```

```
prot. WebResponse newWebResponseInstance(WebResponseData, long loadTime, WebRequestSettings)
prot. void onResponseGenerated(HttpMethodBase)
void setVirtualHost(String virtualHost)
```

Class `MockWebConnection`

```
MockWebConnection()
Map<String, String> getLastAdditionalHeaders()
HttpMethod getLastMethod()
List<NameValuePair> getLastParameters()
WebRequestSettings getLastWebRequestSettings()
int getRequestCount()
WebResponse getResponse(WebRequestSettings)
void setDefaultResponse(byte[] content, int statusCode, S. statusMessage, S. contentType)
void setDefaultResponse(String content)
void setDefaultResponse(S. content, int statusCode, String statusMessage, String contentType)
void setDefaultResponse(S. content, int statusCode, S. statusMessage, S. contentType, List<? extends NameValuePair> responseHeaders)
void setDefaultResponse(S. content, int statusCode, S. statusMessage, S. contentType, List<? extends NameValuePair> responseHeaders)
void setDefaultResponse(S. content, S. contentType)
void setDefaultResponse(S. content, S. contentType, String charset)
void setResponse(URL url, byte[] content, int statusCode, S. statusMessage, S. contentType, List<? extends NameValuePair> responseHeaders)
void setResponse(URL url, S. content)
void setResponse(URL url, S. content, int statusCode, S. statusMessage, S. contentType, List<? extends NameValuePair> responseHeaders)
void setResponse(URL url, S. content, int statusCode, S. statusMessage, S. contentType, S. charset, List<? extends NameValuePair> responseHeaders)
void setResponse(URL url, S. content, S. contentType)
void setResponse(URL url, S. content, S. contentType, S. charset)
void setResponseAsGenericHtml(URL url, S. title)
```

Also: `util.DebuggingWebConnection`, `util.FalsifyingWebConnection`, `util.WebConnectionWrapper`.

Interface `IncorrectnessListener`

```
void notify(S. message, 0. origin)
```

Class `IncorrectnessListenerImpl`

```
IncorrectnessListenerImpl()
```

Class `WebResponseData`

```
WebResponseData(byte[] body, int statusCode, String statusMessage, List<NameValuePair> responseHeaders)
WebResponseData(InputStream bodyStream, int statusCode, String statusMessage, List<NameValuePair> responseHeaders)
prot. WebResponseData(int statusCode, String statusMessage, List<NameValuePair> responseHeaders)
```

```
byte[] getBody()
prot. byte[] getBody(InputStream, List<NameValuePair> headers)
List<NameValuePair> getResponseHeaders()
int getStatusCode()
String getStatusMessage()
```

Class `Cache`

```
Cache()
void cache(S. css, org.w3c.dom.css.CSSStyleSheet)
void cacheIfPossible(WebRequestSettings, WebResponse, Object toCache)
void clear()
prot. void deleteOverflow()
Object getCachedObject(WebRequestSettings)
org.w3c.dom.css.CSSStyleSheet getCachedStyleSheet(String css)
int getMaxSize()
int getSize()
prot. boolean isCacheable(WebRequestSettings, WebResponse)
prot. boolean isDynamicContent(WebResponse)
prot. boolean isJavaScript(WebResponse)
prot. Date parseDateHeader(WebResponse, String headerName)
void setMaxSize(int maxSize)
```

Class `TextUtil`

```
st. boolean startsWithIgnoreCase(String, S. prefix)
st. byte[] stringToByteArray(String content)
st. byte[] stringToByteArray(S. content, S. charset)
st. InputStream toInputStream(String content)
st. InputStream toInputStream(S. content, S. encoding)
```

Class `util.EncodingSniffer`

```
stat. String sniffEncoding(List<NameValuePair> headers, InputStream content)
stat. String sniffHtmlEncoding(List<NameValuePair> headers, InputStream content)
stat. String sniffUnknownContentTypeEncoding(List<NameValuePair> headers, InputStream content)
stat. String sniffXmlEncoding(List<NameValuePair> headers, InputStream content)
```