# 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   **getWebWindowByName**(String name)
List<WebWindow>   **getWebWindows**()
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( HtmlAttributeChang
eListener)
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      createXmlElement(String tagName)
DomElement  createXmlElementNS(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(bool.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, S. charset, 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, O. 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)
```