

# Iliad developer's guide

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Version 0.9.1  
18 octobre 2010

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# Introduction

Iliad is a Smalltalk web application framework. Heavily based on reusable stateful widgets, Iliad lets you build powerful dynamic applications easily. It allows you to trigger smalltalk code when an user clicks on a link or submit a form instead of bothering you with low level details.

Thanks to its javascript layer Iliad automatically uses AJAX requests to update the client state, and it will nicely degrade to normal requests if javascript is not enabled, so you don't have to bother about that either.

## Resources

Here is a short list of Iliad related resources:

- the main website of Iliad (<http://www.iliadproject.org>);
- Iliad mailing-list (<http://groups.google.fr/group/iliad>);
- the issue tracker (<http://code.google.com/p/iliadproject/issues>).

## A work in progress

Iliad's documentation is evolving. We are looking for contributors to help us improve this documentation.





# Chapter 1

## Downloading and installing Iliad

Iliad is currently available for GNU Smalltalk, Squeak and Pharo. In this chapter you will find detailed installation instructions for each supported Smalltalk dialect.

### 1.1 Installing on GNU Smalltalk

#### `gst-package`

With *GNU Smalltalk* 3.2 or newer, `gst-package` can be used to download and install Iliad.

```
~$ gst-package --download grease -t ~/.st
~$ gst-package --download iliad -t ~/.st
```

#### Git

You can download Iliad by cloning the *Git* repository.

```
~$ git clone http://github.com/NicolasPetton/Grease.git
~$ cd Grease
~$ gst-package -t ~/.st ./package.xml

~$ git clone git://github.com/NicolasPetton/iliad-stable.git
~$ cd iliad-stable
~$ ./scripts/make_packages
```

## 1.2 Installing on Pharo Smalltalk

### Using Metacello

Download ConfigurationOfIliad package from the Metacello repository from squeaksource :

```
MCHttpRepository
location: 'http://www.squeaksource.com/MetacelloRepository'
user: ''
password: ''
```

Open a workspace and *do-it*:

```
ConfigurationOfIliad load
```

### Manually

Load Swazoo 2.2 (<http://www.squeaksource.com/Swazoo>) and Grease (<http://www.squeaksource.com/Seaside30>) from SqueakSource. Load packages from the SqueakSource repository (<http://www.squeaksource.com/iliad>) in the following order:

- Iliad-Core
- Iliad-Swazoo
- Iliad-More-UI
- Iliad-More-Rss
- Iliad-More-Formula
- Iliad-More-Comet
- Iliad-More-Examples
- Iliad-More-Tests

## 1.3 Loading and starting Iliad

Iliad is webserver agnostic. However, only one server adapter for Swazoo (<http://www.swazoo.org>) has been written so far. This adapter is available for Pharo Smalltalk and GNU Smalltalk.

### 1.3.1 GNU Smalltalk

#### The start script

The git repository of Iliad includes a `start` script, which will create an image with all required packages loaded and start Iliad with `gst-remote`.

```
~$ ./scripts/start -p PORT
```

**gst's REPL**

You can load Iliad packages into a GNU Smalltalk image with the `PackageLoader`. When using `gst`'s REPL, you will have to suspend the active process to make Swazoo listen to a given port:

```
st> PackageLoader fileInPackage: 'Iliad'  
st> Iliad.SwazooIliad startOn: 8888  
st> processor activeProcess suspend
```

**With `gst-remote`**

You can create a bash script and use it to load the desired packages and start `iliad`:

```
#!/bin/bash  
  
# load packages into a new image named iliad.im  
echo "PackageLoader fileInPackage: 'Iliad'. ObjectMemory snapshot: 'iliad.im'" | gst  
  
# start gst-remote with the image  
gst-remote --server -I iliad.im &  
sleep 2  
  
# start Swazoo on port 8888  
gst-remote --eval "Iliad.SwazooIliad startOn: 8888"
```

**1.3.2 Pharo Smalltalk**

To start Swazoo with the Iliad adapter, *do-it*:

```
SwazooIliad startOn: 8888
```



## Chapter 2

# Short tutorial

In this short tutorial we will build our first Iliad widget: a simple counter. Widgets are high-level reusable, stateful, graphical objects. We will create the class and a method to build HTML, then add some behavior to increase and decrease the counter.

### Our first widget

Widgets are subclasses of `ILWidget`. Our widget will have a `count` *instance variable*, initialized to zero.

```
Iliad.ILWidget subclass: CounterWidget [  
    | count |  
  
    initialize [  
        super initialize.  
        count := 0  
    ]  
]
```

To build HTML Iliad calls the `#contents` method of a widget. This method answers a buildable object: almost always a *block closure* or another widget.

```
contents [  
    ^[:e | e h1: count printString]  
]
```

### Action methods

Now we can add action methods to increase and decrease the counter.

```

increase [
    count := count + 1
]

decrease [
    count := count - 1
]

```

To allow the user to increase or decrease the counter, we build anchors which will call the action methods, and modify the `contents` method as follow.

```

contents [
    ^[:e |
        e h1: self count printString.
        e a
            action: [self increase];
            text: '++'.
        e a
            action: [self decrease];
            text: '++']
]

```

To tell Iliad that the state of the counter has changed and that it should be rebuilt, we call its `#markDirty` method in the action methods.

```

increase [
    count := count + 1.
    self markDirty
]

decrease [
    count := count - 1.
    self markDirty
]

```

## Using the counter widget in an application

To see our widget in action, we build it in an application. Applications are similar to widgets except that they dispatch requests in *controller methods*, similar to the `#contents` method of widgets. The default controller method is `#index`.

```

Iliad.ILApplication subclass: CounterApplication [

    CounterApplication class >> path [
        ^'counter'
    ]
]

```

```
counterWidget [  
    ^counterWidget ifNil: [counterWidget := CounterWidget new]  
]  
  
index [  
    <category: 'controllers'>  
    ^self counterWidget  
]  
]
```

The class side `#path` method answers the base path of our application.





## Chapter 3

# Elements

Elements are low-level stateless objects composed in a tree to build valid (X)HTML. For each element class there is a corresponding HTML tag. This means you will never have to worry about writing valid HTML yourself, but instead use the element API to build HTML in Smalltalk.

`#contents` methods of widgets or *controller methods* of applications are called by Iliad to build HTML using elements.

### 3.1 Composing the element tree

#### Adding elements

`ILHTMLBuilderElement` is the root class of the HTML element hierarchy. It has convenience methods for adding other HTML elements, and manipulate HTML attributes. These convenience methods follow HTML tag and attribute names. You can browse them in the `adding-convenience` protocol. All HTML elements inherit these methods.

The API provides the `#add:` method for adding a child to an element. Convenience methods use this method to compose the tree of elements.

```
p [
  <category: 'adding-convenience'>
  ^self add: ILParagraphElement new
]
```

#### The HTML API

Each element in the tree represents a given HTML tag. Each attribute of an element has a corresponding HTML tag attribute. We compose HTML by combining the two kind of methods. As methods are named depending on the

HTML tag they represent, building HTML with Iliad looks very similar to actual HTML code.

The following example

```
e p: 'Hello world'.
e br.
e a
  href: 'http://www.iliadproject.org';
  text: 'Iliad website'.
```

Will produce the HTML:

```
<p>Hello world</p>
<br/>
<a href='http://www.iliadproject.org'>Iliad website</a>
```

Most of the time you won't have to learn the HTML API if you already know the HTML tag names or attributes you want to write. If you can't find the name of a convenience method, you can browse the `ILHTMLBuilderElement` class and its subclasses in `Iliad-Core-HTMLElements`.

## 3.2 Elements and buildables

Buildable objects are high-level stateful graphical objects. They use elements to build themselves as HTML. They must implement the `#buildOn:` method, taking an element as parameter.

A buildable object can be built on an element with the `ILElement>>build:` method.

Default buildable objects in Iliad includes *Block closures* and *Widgets*.

```
div build: [:e | e text: 'hello world'].
div build: myWidget.
```

Buildables should never be built using their `#contents` method or the `ILElement>>add:` method. Therefore, the following example is not valid.

```
e add: myWidget contents. "Not valid"
e build: myWidget. "Valid"
```

Block closures can be used to make building methods simpler by nesting elements.

```
| div a |
div := e div.
a := div a.
a href: 'http://www.iliadproject.org'.
a img
```

```

    src: 'iliad.png';
    alt: 'Iliad logo'.
div h1: 'Iliad rocks!'
```

Can be written:

```

e div build: [:div |
  div a build: [:a |
    a href: 'http://www.iliadproject.org'.
    a img
      src: 'iliad.png';
      alt: 'Iliad logo'].
  div h1: 'Iliad rocks!']
```

And will build the following HTML code:

```

<div>
  <a href='http://www.iliadproject.org'>
    <img src='iliad.png' alt='Iliad logo' />
  </a>
  <h1>Iliad rocks!</h1>
</div>
```

### 3.3 Actions

Buildables can do more than just build HTML. They can behave, change their state and react to user interactions through Smalltalk code evaluated in actions.

Instead of having to parse URLs and requests, Iliad uses action objects to trigger smalltalk code when the user interacts with the page, click on a link or submit a form. An *action* is an Iliad object with a smalltalk block associated to an id, but we will often refer to the block of an action as the action itself.

#### Actions in anchors

The `ILAnchorElement` class provides the `#action:` method to associate an action block to the anchor.

```

e a
  text: 'Click!';
  action: [Transcript show: 'Anchor clicked.']
```

Because `#action:` will add an `href` attribute with a generated URL, anchors can't have both an associated action and an `href`.

```

e a
  text: 'Click!';
  action: [Transcript show: 'Anchor clicked.']; cr];
  href: 'http://www.smalltalk.org' "This will override the href set by #action:"
```

The counter widget example in *Iliad-More-Examples* is a good example of actions in anchors.

```
contents [
  ^[:e |
    e h1: self count printString.
    e a
      action: [self increase];
      text: '++'.
    e space.
    e a
      action: [self decrease];
      text: '--']
]
```

### Actions in forms

Form elements can also have actions, evaluated when the form is submitted. We can modify the `#contents` method of the counter example to use a form and buttons instead of anchors.

```
contents [
  ^[:e |
    e h1: self count printString.
    e form build: [:form |
      form button
        text: '++';
        action: [self increase].
      form button
        text: '--';
        action: [self decrease]]]
]
```

Some form elements like inputs or textareas take a one argument action block. The argument is the value entered by the user.

```
e form build: [:form |
  form input action: [:val | self doSomethingWith: val].
  form button text: 'Ok']
```

## 3.4 DOM Events

Iliad provides a simple API to associate javascript code to DOM events (click, focus, etc.) in the `accessing attributes-events` method protocol. The main method is `#on:add:` which takes two strings as arguments, the first one for the event, and the last one for the associated javascript code. Many shortcut methods exist for specific events, like `#onClick:` or `#onFocus:`.

```
e p
  text: 'Click';
  onClick: 'alert("clicked!");'.
```

If an element cannot be associated with a DOM event, an `ILAttributeNotUnderstood` error will be raised.

### Evaluating actions on DOM Events

It is also possible to associate actions to DOM events. Names of methods follow the same convention, but end with *do*: and take a block as parameter.

```
e p
  text: 'An action block is evaluated on a click event';
  onClickDo: [Transcript show: 'Clicked!'; cr]
```



## Chapter 4

# Widgets

### TODO

- Maintaining state
- dirty widgets
- dependent widgets
- `#show:answer:`
- decorators
- redirecting





## Chapter 5

# Applications

### TODO

- Controllers
- routes
- selectorFilter



## Chapter 6

# Routes and urls

### TODO

- The ILRoute object
- Routers
- ILUrlBuilder and the base url



## Chapter 7

# Managing sessions

TODO

- The session manager
- Subclassing `ILSession`
- Managing session expiration



## Chapter 8

### RSS





## Chapter 9

## Formula



## Chapter 10

# Deploying Iliad applications

TODO

- Configuring apache
- Serving static files
- ILUrlBuilder and rewrite rules



## Chapter 11

# Iliad class library reference

### 11.1 Iliad.IdentityBag

Defined in namespace Iliad

Superclass: Bag

Category:

### 11.2 Iliad.ILAction

Defined in namespace Iliad

Superclass: Iliad.ILObject

Category: Iliad-Core-Sessions

#### 11.2.1 Iliad.ILAction: accessing

**block**      Answer 'block'.

**block: aBlock**  
Not commented.

**key**      Answer 'key'.

**key: anId**  
Not commented.

**value**      Answer 'value'.

**value: anObject**  
Not commented.

### 11.2.2 Iliad.IAction: converting

**respondOn: aResponse**  
Not commented.

### 11.2.3 Iliad.IAction: evaluating

**evaluate**  
Not commented.

## 11.3 Iliad.IActionRegistry

Defined in namespace Iliad  
Superclass: Iliad.ILObject  
Category: Iliad-Core-Sessions  
I implement a registry of actions.

### 11.3.1 Iliad.IActionRegistry: accessing

**actionAt: aKey**  
Not commented.

**actions** Not commented.

### 11.3.2 Iliad.IActionRegistry: actions

**evaluateActionKey: aString**  
Not commented.

**register: anAction**  
Not commented.

**unregister: anAction**  
Not commented.

**unregisterAllActions**  
Not commented.

## 11.4 Iliad.ILAnchorElement

Defined in namespace Iliad

Superclass: Iliad.ILLinkableElement

Category: Iliad-Core-XHTMLElements

### 11.4.1 Iliad.ILAnchorElement: accessing

**action: aBlock**

Not commented.

**action: aBlock hash: aString**

Not commented.

**tag** Answer 'a'.

### 11.4.2 Iliad.ILAnchorElement: accessing attributes

**tabindex: anInteger**

Not commented.

### 11.4.3 Iliad.ILAnchorElement: accessing attributes- imagemap

**circleShape**

Not commented.

**coords: aString**

Not commented.

**defaultShape**

Not commented.

**polyShape**

Not commented.

**rectShape**

Not commented.

**shape: aString**

Not commented.

## 11.5 Iliad.ILAnswerHandler

Defined in namespace Iliad

Superclass: Iliad.ILDecorator

Category: Iliad-Core-Buildables

I am a special decorator for Widgets, used to handle widget answers.

See #handleAnswer: and ILWidget>>show:onAnswer:

### 11.5.1 Iliad.ILAnswerHandler: accessing

**action** Answer 'action'.

**action: anAction**

Not commented.

### 11.5.2 Iliad.ILAnswerHandler: decorations

**handleAnswer: anAnswer**

Not commented.

## 11.6 Iliad.ILAppendDelegator

Defined in namespace Iliad

Superclass: Iliad.ILDelegator

Category: Iliad-Core-Buildables

### 11.6.1 Iliad.ILAppendDelegator: building

**contents**

Not commented.



## 11.7 Iliad.ILApplication

Defined in namespace Iliad

Superclass: Iliad.ILBuildable

Category: Iliad-Core-Buildables

I am the Iliad implementation of an application.

I am is the root object of a buildable object tree. Applications have a set of controllers, methods used to dispatch requests to the corresponding sub-tree of buildable objects (oftenly a composition of stateful widgets).

In concrete subclasses, the class method #path should return the base path (string) for the application.

```

" Applications & UI state "

```

You don't have to bother about instantiating applications, the framework will handle session and application instances. Application instances are stored in sessions. Each session stores one instance of the same application class.

Root widgets should be stored in applications to keep their state across requests.

```

" Controller methods "

```

Like widgets, I am stateful. Unlike widgets I know how to dispatch a request with #dispatch : the controller method corresponding to the url will be called.

Controller methods must: - answer a buildable object (a block closure or an instance of ILWidget for example). - be in the 'controllers' method protocol (with the default selector filter)

The default controller method is #index.

```

" selectorFilter "

```

The class inst var <selectorFilter> is used to filter controller methods. By default it allows all methods in the 'controllers' protocol.

Alternatively, you can override the class method #defaultSelectorFilter to supply your own selectorFilter or plug it in using the class method #selectorFilter:

### 11.7.1 Iliad.ILApplication class: accessing

**absolutePath**

Not commented.

**path** Base path of the application. Override this method in concrete subclasses. It should return a string

**selectorFilter**  
Not commented.

**selectorFilter: aBlock**  
Not commented.

### 11.7.2 Iliad.ILApplication class: defaults

**defaultSelectorFilter**  
Override this method to supply your own selectorFilter or plug it in using `#selectorFilter`:

### 11.7.3 Iliad.ILApplication: accessing

**model** Answer 'model'.

**model: anObject**  
Not commented.

**page** Answer 'page'.

**selectorFilter**  
Not commented.

**widgetFor: aBuildable**  
Convenience method. This is useful for building anonymous widgets.  
ex: `myWidget := self widgetFor: [:e | e h1: 'Hello world!']`

### 11.7.4 Iliad.ILApplication: building

**buildContents**  
Call `#dispatch`. A buildable is expected from `#dispatch`

### 11.7.5 Iliad.ILApplication: controllers

**index** default view method

### 11.7.6 Iliad.ILApplication: converting

**respondOn: aResponse**  
Not commented.

### 11.7.7 Iliad.ILApplication: defaults

**defaultPageClass**  
Answer 'ILHTMLPage'.

**rootElementClass**  
Answer 'ILHTMLBuilderElement'.

### 11.7.8 Iliad.ILApplication: dispatching

**allowedSelector: aSelector**  
Answer true if <aSelector> is ok to call from a URL. Default implementation is to use the pluggable filter block.

**dispatch**  
Dispatch to correct controller method. If dispatchOverride returns something different from nil, consider it handled.

**dispatchOn: aMethod**  
Dispatch to correct method: - If <aMethod> is empty we call #index - If the selector is allowed to be executed then we just call it

**dispatchOverride**  
Handle special urls. Subclass implementors should call super first and see if it was handled.

### 11.7.9 Iliad.ILApplication: redirecting

**respond: aBlock**  
Abort all other request handling

**returnResponse: aResponse**  
Abort all other request handling

### 11.7.10 Iliad.ILApplication: updating

**updateBaseUrl: anUrl**

Answer the receiver.

**updateFromRoute: aRoute**

Answer the receiver.

**updatePage: aPage**

Override to add elements to aPage. super should always be called

## 11.8 Iliad.ILApplicationHandler

Defined in namespace Iliad

Superclass: Iliad.ILRequestHandler

Category: Iliad-Core-RequestHandlers

### 11.8.1 Iliad.ILApplicationHandler: initialization

**initialize**

Not commented.

### 11.8.2 Iliad.ILApplicationHandler: request handling

**evaluateActions**

Not commented.

**handleRequest**

Not commented.

### 11.8.3 Iliad.ILApplicationHandler: responding

**produceResponse**

Not commented.

#### 11.8.4 Iliad.ILApplicationHandler: testing

**isRequestValid**

Not commented.

**shouldRedirect**

Not commented.

**shouldRespondInJson**

Not commented.

**shouldReturnEmptyResponse**

Not commented.

### 11.9 Iliad.ILAreaElement

Defined in namespace Iliad

Superclass: Iliad.ILClosingElement

Category: Iliad-Core-XHTMLElements

#### 11.9.1 Iliad.ILAreaElement: accessing

**tag** Answer ‘area’.

#### 11.9.2 Iliad.ILAreaElement: accessing attributes

**accesskey: aCharacter**

Not commented.

**alt: aString**

Not commented.

**href: aString**

Not commented.

**nohref** Not commented.

**tabindex: anInteger**

Not commented.

### 11.9.3 Iliad.ILAreaElement: accessing attributes- imagemap

**circleShape**

Not commented.

**coords: aString**

Not commented.

**defaultShape**

Not commented.

**polyShape**

Not commented.

**rectShape**

Not commented.

**shape: aString**

Not commented.

## 11.10 Iliad.ILAttributeError

Defined in namespace Iliad

Superclass: Grease.Grease.GRError

Category: Iliad-Core-Elements

## 11.11 Iliad.ILAttributeNotUnderstood

Defined in namespace Iliad

Superclass: Grease.Grease.GRError

Category: Iliad-Core-Elements

### 11.11.1 Iliad.ILAttributeNotUnderstood class: instance creation

**element: anElement attribute: aString**

Not commented.

**11.11.2 Iliad.ILAttributeNotUnderstood: accessing****attribute**

Answer 'attribute'.

**attribute: anObject**

Not commented.

**element** Answer 'element'.**element: anElement**

Not commented.

**11.11.3 Iliad.ILAttributeNotUnderstood: exceptionDe-  
scription****defaultAction**

Answer the receiver.

**isResumable**

Answer 'true'.

**11.11.4 Iliad.ILAttributeNotUnderstood: printing****messageText**

Not commented.

**11.12 Iliad.ILBodyElement**

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

**11.12.1 Iliad.ILBodyElement: accessing****tag**

Answer 'body'.

### 11.12.2 Iliad.ILBodyElement: addressing attributes-events

**onLoad: aString**  
Not commented.

**onUnload: aString**  
Not commented.

## 11.13 Iliad.ILBreakElement

Defined in namespace Iliad  
Superclass: Iliad.ILClosingElement  
Category: Iliad-Core-XHTMLElements

### 11.13.1 Iliad.ILBreakElement: accessing

**tag** Answer ‘br’.

### 11.13.2 Iliad.ILBreakElement: accessing attributes-events

**onEvent: event add: aString**  
Not commented.

## 11.14 Iliad.ILBuildable

Defined in namespace Iliad  
Superclass: Iliad.ILObject  
Category: Iliad-Core-Buildables

I am an abstract buildable object. My subclasses must override #build method, which should return an instance of a subclass of Iliad.ILElement.



### 11.14.1 Iliad.ILBuildable: accessing

**children**

Not commented.

**router**

Not commented.

### 11.14.2 Iliad.ILBuildable: accessing attributes

**attributeAt: aSymbol**

Not commented.

**attributeAt: aSymbol ifAbsentPut: aBlock**

Not commented.

**attributeAt: aSymbol put: anObject**

Not commented.

**attributes**

Not commented.

### 11.14.3 Iliad.ILBuildable: actions

**send: aSymbol**

Not commented.

**send: aSymbol to: anObject**

Not commented.

**send: aSymbol to: anObject arguments: anArray**

Not commented.

### 11.14.4 Iliad.ILBuildable: building

**build**

Not commented.

**buildContents**

Override this method in subclasses. It must answer an Element

**buildOn: anElement**

Not commented.

**registerChild: aBuildable**

Not commented.

### 11.14.5 Iliad.ILBuildable: converting

**respondOn: aResponse**  
Not commented.

### 11.14.6 Iliad.ILBuildable: printing

**printHtmlString**  
Not commented.

### 11.14.7 Iliad.ILBuildable: redirecting

**redirectTo: anUrlString**  
Abort all other request handling. Redirect to anUrlString

**redirectToApplication: aClass**  
Abort all other request handling. Redirect to the index method of  
<aClass>

**redirectToApplication: aClass controller: aString**  
Abort all other request handling. Redirect to the controller named  
<aString> of <aClass>

**redirectToCurrentController**  
Abort all other request handling. Redirect to the current controller  
method

**redirectToIndex**  
Abort all other request handling. Redirect to the index method of  
this class

**redirectToLocal: aString**  
Abort all other request handling. Make a redirection to another  
controller method in this application

## 11.15 Iliad.ILButtonElement

Defined in namespace Iliad  
Superclass: Iliad.ILFormElementElement  
Category: Iliad-Core-XHTMLElements

### 11.15.1 Iliad.ILButtonElement: accessing

**tag** Answer ‘button’.

### 11.15.2 Iliad.ILButtonElement: accessing attributes

**beButton**  
Not commented.

**beReset**  
Not commented.

**beSubmit**  
Not commented.

**type: aString**  
Not commented.

**value: aString**  
Not commented.

### 11.15.3 Iliad.ILButtonElement: printing

**beforePrintHtml**  
Not commented.

## 11.16 Iliad.ILCheckboxElement

Defined in namespace Iliad  
Superclass: Iliad.ILFormElementElement  
Category: Iliad-Core-XHTMLElements

### 11.16.1 Iliad.ILCheckboxElement: accessing

**tag** Answer ‘input’.

### 11.16.2 Iliad.ILCheckboxElement: accessing attributes

**action: aBlock**

Not commented.

**beChecked**

Not commented.

**checked: aBoolean**

Not commented.

### 11.16.3 Iliad.ILCheckboxElement: printing

**addHiddenInput**

Not commented.

**beforePrintHtml**

Not commented.

## 11.17 Iliad.ILClosingElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.17.1 Iliad.ILClosingElement: printing

**printHtmlOn: aStream**

Not commented.

## 11.18 Iliad.ILComposite

Defined in namespace Iliad

Superclass: Iliad.ILObject

Category: Iliad-Core-Utilities

### 11.18.1 Iliad.ILComposite: accessing

**children**

Not commented.

**next**

Answer 'next'.

**next: aComposite**

Not commented.

### 11.18.2 Iliad.ILComposite: adding

**add: aComposite**

Not commented.

### 11.18.3 Iliad.ILComposite: comparing

**= anObject**

Not commented.

**hash**

Not commented.

### 11.18.4 Iliad.ILComposite: enumerating

**allChildrenDo: aBlock**

Not commented.

**childrenDo: aBlock**

Not commented.

## 11.19 Iliad.ILConditionalCommentElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.19.1 Iliad.ILConditionalCommentElement: accessing conditions

Not commented.

### 11.19.2 Iliad.ILConditionalCommentElement: accessing attributes-events

**onEvent:** event add: aString  
Not commented.

### 11.19.3 Iliad.ILConditionalCommentElement: conditions

**gt** Greater than  
**ie** Not commented.  
**ie5** Not commented.  
**ie50** Not commented.  
**ie55** Not commented.  
**ie6** Not commented.  
**ie7** Not commented.  
**ie8** Not commented.  
**lt** Less than  
**not** Not

### 11.19.4 Iliad.ILConditionalCommentElement: printing

**printCloseTagOn:** aStream  
Not commented.

**printOpenTagOn:** aStream  
Not commented.

## 11.20 Iliad.ILConfirmationWidget

Defined in namespace Iliad

Superclass: Iliad.ILWidget

Category: Iliad-Core-Buildables

### 11.20.1 Iliad.ILConfirmationWidget: accessing

**confirmationString**

Answer 'confirmationString'.

**confirmationString: aString**

Not commented.

### 11.20.2 Iliad.ILConfirmationWidget: building

**contents**

Not commented.

## 11.21 Iliad.ILContext

Defined in namespace Iliad

Superclass: Iliad.ILObject

Category: Iliad-Core-Sessions

I store current request context objects:

- the router - the session - the request itself

I can be accessed through `ILObject>>context`

### 11.21.1 Iliad.ILContext: accessing

**application**

Not commented.

**attributes**

Not commented.

**baseUrl** Not commented.

**builtWidgets**

Not commented.

**previousStateRegistry**

Not commented.

**request** Answer 'request'.**request: aRequest**

Not commented.

**router** Not commented.**session** Answer 'session'.**session: aSession**

Not commented.

**stateRegistry**

Not commented.

**urlBuilder**

Not commented.

**11.21.2 Iliad.ILContext: accessing-attributes****attributeAt: aKey**

Not commented.

**attributeAt: aKey put: anObject**

Not commented.

**11.21.3 Iliad.ILContext: adding****addBuiltWidget: aWidget**

Not commented.



## 11.22 Iliad.ILCookie

**Defined in namespace** Iliad

**Superclass:** Object

**Category:** Iliad-Core-lib-HTTP

From Seaside 2.8

I represent a cookie, a piece of information that is stored on the client and read and writable by the server. I am basically a key/value pair of strings. You can never trust information in a cookie, the client is free to edit it. I model only a part of the full cookie specification.

For more information see RFC2965  
(<http://tools.ietf.org/html/rfc2965>)

### 11.22.1 Iliad.ILCookie class: instance creation

**key:** keyString **value:** valueString

Not commented.

### 11.22.2 Iliad.ILCookie: accessing

**expiry** Answer 'expiry'.

**expiry:** anInteger

Not commented.

**key** Answer 'key'.

**key:** aString

Not commented.

**path** Not commented.

**path:** aString

Not commented.

**value** Answer 'value'.

**value:** aString

Not commented.

### 11.22.3 Iliad.ILCookie: api

**expireIn: aDuration**  
Not commented.

**valueWithExpiry**  
Not commented.

### 11.22.4 Iliad.ILCookie: comparing

**= other** Not commented.

**hash** Not commented.

### 11.22.5 Iliad.ILCookie: writing

**writeOn: aStream**  
Not commented.

## 11.23 Iliad.ILCurrentBuildable

Defined in namespace Iliad  
Superclass: Iliad.ILDynamicVariable  
Category: Iliad-Core-Buildables

## 11.24 Iliad.ILCurrentContext

Defined in namespace Iliad  
Superclass: Iliad.ILDynamicVariable  
Category: Iliad-Core-Sessions

## 11.25 Iliad.ILDecorator

**Defined in namespace** Iliad

**Superclass:** Iliad.ILBuildable

**Category:** Iliad-Core-Buildables

I am a decorator for Widgets. I can be added to a widget by calling  
#decorateWith: from a widget. Subclasses can be used to modify  
the building process of a widget, or change its behavior

### 11.25.1 Iliad.ILDecorator class: instance creation

**decoratee:** aDecoratee

Not commented.

### 11.25.2 Iliad.ILDecorator: accessing

**decoratee**

Answer 'decoratee'.

**decoratee:** aDecoratee

Not commented.

**widget** Not commented.

### 11.25.3 Iliad.ILDecorator: building

**contents**

Not commented.

**scripts** Answer '#()'.

**styles** Answer '#()'.

**updateHead:** aHead

Not commented.

### 11.25.4 Iliad.ILDecorator: decorations

**handleAnswer: anAnswer**

Not commented.

**removeDecorator: aDecorator**

Not commented.

**removeYourself**

Not commented.

### 11.25.5 Iliad.ILDecorator: testing

**isDelegator**

Answer 'false'.

**isGlobal**

Answer 'false'.

## 11.26 Iliad.ILDelegator

Defined in namespace Iliad

Superclass: Iliad.ILDecorator

Category: Iliad-Core-Buildables

### 11.26.1 Iliad.ILDelegator: accessing

**newRootElement**

Not commented.

**widget** Answer 'widget'.

**widget: aWidget**

Not commented.

### 11.26.2 Iliad.ILDelegator: building

**contents**

Not commented.

**updateHead: aHead**

Not commented.

### 11.26.3 Iliad.ILDelegator: decorations

**handleAnswer: anAnswer**  
Not commented.

### 11.26.4 Iliad.ILDelegator: testing

**isDelegator**  
Answer 'true'.

**isGlobal**  
Answer 'true'.

## 11.27 Iliad.ILDirectionElement

Defined in namespace Iliad  
Superclass: Iliad.ILHTMLBuilderElement  
Category: Iliad-Core-XHTMLElements

### 11.27.1 Iliad.ILDirectionElement: accessing

**tag** Answer 'bdo'.

**xmlLang: aString**  
Not commented.

### 11.27.2 Iliad.ILDirectionElement: accessing attributes-events

**onEvent: event add: aString**  
Not commented.

### 11.27.3 Iliad.ILDirectionElement: accessing attributes

**dir: aString**  
Not commented.

#### 11.27.4 Iliad.ILDirectionElement: printing

**beforePrintHtml**

Not commented.

### 11.28 Iliad.ILDirectory

**Defined in namespace** Iliad

**Superclass:** Iliad.ILObject

**Category:** Iliad-Core-RequestHandlers

#### 11.28.1 Iliad.ILDirectory: accessing

**fileContentsFor: aFilename**

This method's functionality should be implemented by subclasses of ILDirectory

### 11.29 Iliad.ILDiskDirectory

**Defined in namespace** Iliad

**Superclass:** Iliad.ILDirectory

**Category:** Iliad-Core-GST

An ILDiskDirectory allows files to be served by Iliad directly from directories of even archives like .star files. I shouldn't be used in production.

Usage example:

```
Iliad.ILObject addDirectory: (Iliad.ILDiskDirectory new directory: (PackageLoader packageAt: 'SomePackage') directory / 'Public');
```

#### 11.29.1 Iliad.ILDiskDirectory: accessing

**directory**

Answer 'directory'.

**directory: aDirectory**

Not commented.

**fileContentsFor: aString**

Not commented.

## 11.30 Iliad.ILDispatcher

Defined in namespace Iliad

Superclass: Iliad.ILObject

Category: Iliad-Core-Dispatching

I am the entry point of requests. I dispatch them with the `#dispatch:` method to an `ILApplicationHandler` or a `ILFileHandler`.

Web server adapters should use the `#dispatch:` method on the current instance of `ILDispatcher` - returned by `ILDispatcher class>>current` - to handle requests, and wait for a `ILResponseNotification` to respond to them.

### 11.30.1 Iliad.ILDispatcher class: instance creation

**current** Not commented.

**new** This method should not be called for instances of this class.

### 11.30.2 Iliad.ILDispatcher: dispatching

**dispatch: aRequest**

Entry point of requests

### 11.30.3 Iliad.ILDispatcher: error-handling

**withDispatchErrorHandling: aBlock**

Catch dispatch errors

**withErrorHandling: aBlock**

Catch errors and use an `ILErrorHandler` to handle them

## 11.31 Iliad.ILDispatchError

Defined in namespace Iliad

Superclass: Grease.Grease.GRError

Category: Iliad-Core-Dispatching

## 11.32 Iliad.ILDivElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.32.1 Iliad.ILDivElement: accessing

**tag**      Answer ‘div’.

## 11.33 Iliad.ILDynamicVariable

Defined in namespace Iliad

Superclass: Object

Category: Iliad-Core-Utilities

### 11.33.1 Iliad.ILDynamicVariable class: defaults

**defaultValue**

Answer ‘nil’.

### 11.33.2 Iliad.ILDynamicVariable class: evaluating

**use: anObject during: aBlock**

Not commented.

**value**      Not commented.

## 11.34 Iliad.ILElement

Defined in namespace Iliad

Superclass: Iliad.ILComposite

Category: Iliad-Core-Elements

I am the abstract root class of the composite element hierarchy.

I know how to print myself in HTML format with the #printHtmlOn:  
method



**11.34.1 Iliad.ILElement: accessing****attributeAt: akey**

Not commented.

**attributeAt: akey ifAbsent: aBlock**

Not commented.

**attributeAt: akey ifAbsentPut: aBlock**

Not commented.

**attributeAt: aKey put: aValue**

Not commented.

**attributes**

Not commented.

**contentType**

This method's functionality should be implemented by subclasses of ILElement

**tag**

Answer 'nil'.

**11.34.2 Iliad.ILElement: adding-convenience****text: aString**

Not commented.

**xml**

Not commented.

**11.34.3 Iliad.ILElement: building****build: aBuildable**

Not commented.

**11.34.4 Iliad.ILElement: comparing****= anObject**

Not commented.

**hash**

Not commented.

### 11.34.5 Iliad.ILElement: converting

**respondOn: aResponse**  
Not commented.

### 11.34.6 Iliad.ILElement: error handling

**attributeError: key**  
Not commented.

**doesNotUnderstandAttribute: aString**  
Not commented.

### 11.34.7 Iliad.ILElement: printing

**afterPrintHtml**  
Answer the receiver.

**beforePrintHtml**  
Answer the receiver.

**printAttribute: anAttribute on: aStream**  
Not commented.

**printCloseTagOn: aStream**  
Not commented.

**printHtmlOn: aStream**  
Not commented.

**printJsonOn: aStream**  
Not commented.

**printOpenTagOn: aStream**  
Not commented.

## 11.35 Iliad.ILElementError

Defined in namespace Iliad  
Superclass: Grease.Grease.GRError  
Category: Iliad-Core-Elements

## 11.36 Iliad.ILEncoder

Defined in namespace Iliad

Superclass: Object

Category: Iliad-Core-Utilities

### 11.36.1 Iliad.ILEncoder class: encoding

**encodeCharacterForHTTP: aCharacter on: aStream**

Not commented.

**encodeForHTTP: aString on: aStream**

Not commented.

**encodeUrl: aString on: aStream**

Not commented.

**encodeUrlCharacter: aCharacter on: aStream**

Not commented.

**printUrl: aString encoded: aBoolean on: aStream**

Not commented.

## 11.37 Iliad.ILErrorHandler

Defined in namespace Iliad

Superclass: Iliad.ILRequestHandler

Category: Iliad-Core-RequestHandlers

```

" " Error handling modes "
" "

```

Error handlers can be in one of the following modes: deployment, verbose or debug. The default mode is verbose. You can switch between modes with class methods in the <accessing modes> protocol.

When errors occur, the framework will handle them differently depending on the application mode: - in deployment mode, it will respond an error 500; - in verbose mode, it will also respond an error 500, but with error details; - in debug mode, a debugger window will be opened on the error;

**11.37.1 Iliad.ILErrorHandler class: accessing**

**mode** Not commented.

**mode: aSymbol**  
Not commented.

**11.37.2 Iliad.ILErrorHandler class: accessing modes**

**debugMode**  
Not commented.

**deploymentMode**  
Not commented.

**verboseMode**  
Not commented.

**11.37.3 Iliad.ILErrorHandler: accessing**

**error** Answer 'error'.

**error: anError**  
Not commented.

**mode** Not commented.

**newResponse**  
Not commented.

**11.37.4 Iliad.ILErrorHandler: responding**

**produceDebugResponse**  
Not commented.

**produceDeploymentResponse**  
Not commented.

**produceResponse**  
Not commented.

**produceVerboseResponse**  
Not commented.

### 11.37.5 Iliad.ILErrorHandler: testing

**isDebugMode**

Not commented.

**isDeploymentMode**

Not commented.

**isVerboseMode**

Not commented.

## 11.38 Iliad.ILFieldsetElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.38.1 Iliad.ILFieldsetElement: accessing

**tag** Answer ‘fieldset’.

## 11.39 Iliad.ILFileHandler

Defined in namespace Iliad

Superclass: Iliad.ILRequestHandler

Category: Iliad-Core-RequestHandlers

### 11.39.1 Iliad.ILFileHandler class: accessing

**directories**

Not commented.

### 11.39.2 Iliad.ILFileHandler class: accessing

**addDirectory: aDirectory**

Not commented.

**defaultMimeType**

Answer “application/octet-stream”.

**defaultMimeTypes**

Not commented.

**directories: aCollection**

Not commented.

**mimeTypeFor: aString**

Not commented.

**mimeTypes**

Not commented.

### 11.39.3 Iliad.ILFileHandler class: defaults

**initMimeTypes**

Not commented.

### 11.39.4 Iliad.ILFileHandler class: testing

**isBinary: aFilename**

Not commented.

### 11.39.5 Iliad.ILFileHandler: accessing

**directories**

Not commented.

**mimeTypeFor: aFilename**

Not commented.

**newResponse**

Not commented.

### 11.39.6 Iliad.ILFileHandler: request handling

**handleRequest**

Not commented.

### 11.39.7 Iliad.ILFileHandler: responding

**produceResponse**

Not commented.

## 11.40 Iliad.ILFileProxy

Defined in namespace Iliad

Superclass: Object

Category: Iliad-Core-lib-HTTP

### 11.40.1 Iliad.ILFileProxy class: instance creation

**new** Not commented.

### 11.40.2 Iliad.ILFileProxy: accessing

**contentType**

Answer 'contentType'.

**contentType: anObject**

Not commented.

**contents**

Answer 'contents'.

**contents: anObject**

Not commented.

**createdTimestamp**

Not commented.

**filename**

Answer 'filename'.

**filename: anObject**

Not commented.

**timestamps**

Not commented.

**timestampsAt: aSymbol**

Not commented.

**timestampsAt: aSymbol put: aTimestamp**

Not commented.

### 11.40.3 Iliad.ILFileProxy: initialization

**initialize**

Not commented.

**setCreatedTimestamp**

Not commented.

### 11.40.4 Iliad.ILFileProxy: writing

**writeToFile**

Not commented.

## 11.41 Iliad.ILFormElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.41.1 Iliad.ILFormElement class: defaults

**encodingType**

Answer ‘application/x-www-form-urlencoded’.

**multipartFormData**

Answer ‘multipart/form-data’.



**11.41.2 Iliad.ILFormElement: accessing**

**tag**            Answer ‘form’.  
**url**            Not commented.

**11.41.3 Iliad.ILFormElement: accessing attributes**

**accept: aString**  
                 Not commented.  
**acceptCharset: aString**  
                 Not commented.  
**acceptCharsets: aCollection**  
                 Not commented.  
**accepts: aCollection**  
                 Not commented.  
**beMultipart**  
                 Not commented.  
**enctype**       Not commented.  
**enctype: aString**  
                 Not commented.  
**multipart: aBoolean**  
                 Not commented.  
**useGet**        Not commented.  
**usePost**       Not commented.

**11.41.4 Iliad.ILFormElement: accessing attributes-events**

**onReset: aString**  
                 Not commented.  
**onResetDo: aBlock**  
                 Not commented.  
**onSubmit: aString**  
                 Not commented.  
**onSubmitDo: aBlock**  
                 Not commented.

### 11.41.5 Iliad.ILFormElement: printing

**beforePrintHtml**

Not commented.

### 11.41.6 Iliad.ILFormElement: testing

**isMultipart**

Not commented.

## 11.42 Iliad.ILFormElementElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.42.1 Iliad.ILFormElementElement: accessing

**accesskey: aCharacter**

Not commented.

### 11.42.2 Iliad.ILFormElementElement: accessing attributes

**action: aBlock**

Not commented.

**beSubmitOnChange**

Not commented.

**beSubmitOnClick**

Not commented.

**beSubmitOnEvent: aString**

Not commented.

**disabled**

Not commented.

**disabled: aBoolean**  
Not commented.

**name** Not commented.

**name: aString**  
Not commented.

**readonly: aBoolean**  
Not commented.

## 11.43 Iliad.ILHeadElement

Defined in namespace Iliad  
Superclass: Iliad.ILHTMLBuilderElement  
Category: Iliad-Core-XHTMLElements

### 11.43.1 Iliad.ILHeadElement: accessing

**tag** Answer ‘head’.

### 11.43.2 Iliad.ILHeadElement: accessing attributes

**profile: aString**  
Not commented.

**profiles: aCollection**  
Not commented.

**title** Not commented.

**title: aString**  
Not commented.

### 11.43.3 Iliad.ILHeadElement: accessing attributes-events

**onEvent: event add: aString**  
Not commented.

#### 11.43.4 Iliad.ILHeadElement: adding-convenience

**style** Not commented.

**style: aString**  
Not commented.

#### 11.43.5 Iliad.ILHeadElement: printing

**beforePrintHtml**  
Not commented.

### 11.44 Iliad.ILHeadingElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

#### 11.44.1 Iliad.ILHeadingElement: accessing

**level** Answer 'level'.

**level: anInteger**  
Not commented.

**tag** Not commented.

#### 11.44.2 Iliad.ILHeadingElement: accessing attributes-events

**onEvent: event add: aString**  
Not commented.

## 11.45 Iliad.ILHorizontalRuleElement

Defined in namespace Iliad

Superclass: Iliad.ILClosingElement

Category: Iliad-Core-XHTMLElements

### 11.45.1 Iliad.ILHorizontalRuleElement: accessing

**tag** Answer ‘hr’.

### 11.45.2 Iliad.ILHorizontalRuleElement: accessing attributes-events

**onEvent:** anEvent **add:** aString  
Not commented.

## 11.46 Iliad.ILHTMLBuilderElement

Defined in namespace Iliad

Superclass: Iliad.ILElement

Category: Iliad-Core-XHTMLElements

### 11.46.1 Iliad.ILHTMLBuilderElement: accessing

**class:** aString  
Not commented.

**contentType**  
Not commented.

**if** Not commented.

### 11.46.2 Iliad.ILHTMLBuilderElement: accessing attributes-events

**onChange: aString**  
Not commented.

**onChangeDo: aBlock**  
Not commented.

### 11.46.3 Iliad.ILHTMLBuilderElement: accessing attributes

**style: aString**  
Not commented.

### 11.46.4 Iliad.ILHTMLBuilderElement: accessing attributes

**cssClass**  
Not commented.

**cssClass: aString**  
Not commented.

**id** Not commented.

**id: aString**  
Not commented.

**lang: aString**  
Not commented.

**style** Not commented.

**title** Not commented.

**title: aString**  
Not commented.

**xmlLang: aString**  
Not commented.

### 11.46.5 Iliad.ILHTMLBuilderElement: accessing attributes-events

**onBlur: aString**

Not commented.

**onBlurDo: aBlock**

Not commented.

**onClick: aString**

Not commented.

**onClickDo: aBlock**

Not commented.

**onDoubleClick: aString**

Not commented.

**onDoubleClickDo: aBlock**

Not commented.

**onEvent: aString add: anotherString**

Not commented.

**onEvent: aString do: aBlock**

Not commented.

**onFocus: aString**

Not commented.

**onKeyDown: aString**

Not commented.

**onKeyPress: aString**

Not commented.

**onKeyUp: aString**

Not commented.

**onMouseOut: aString**

Not commented.

**onMouseOver: aString**

Not commented.

**onSelect: aString**

Not commented.

### 11.46.6 Iliad.ILHTMLBuilderElement: adding-convenience

**link** Not commented.

### 11.46.7 Iliad.ILHTMLBuilderElement: adding-convenience

**a** Not commented.

**area** Not commented.

**b** Not commented.

**b: aString**  
Not commented.

**bdo** Not commented.

**big** Not commented.

**big: aString**  
Not commented.

**blockquote**  
Not commented.

**blockquote: aString**  
Not commented.

**br** Not commented.

**button** Not commented.

**checkbox**  
Not commented.

**cite** Not commented.

**cite: aString**  
Not commented.

**code** Not commented.

**code: aString**  
Not commented.



**dd** Not commented.

**dfn** Not commented.

**div** Not commented.

**dl** Not commented.

**dt** Not commented.

**em** Not commented.

**em: aString**  
Not commented.

**favicon** Not commented.

**favicon: aString**  
Not commented.

**fieldset** Not commented.

**file** Not commented.

**form** Not commented.

**h** Not commented.

**h1** Not commented.

**h1: aString**  
Not commented.

**h2** Not commented.

**h2: aString**  
Not commented.

**h3** Not commented.

**h3: aString**  
Not commented.

**h4** Not commented.

**h4: aString**  
Not commented.

**h5** Not commented.

**h5: aString**  
Not commented.

**h6** Not commented.

**h6: aString**  
Not commented.

**hr** Not commented.

**html: aString**  
Not commented.

**i** Not commented.

**i: aString**  
Not commented.

**img** Not commented.

**img: aString**  
Not commented.

**input** Not commented.

**javascript**  
Not commented.

**label** Not commented.

**legend** Not commented.

**legend: aString**  
Not commented.

**li** Not commented.

**map** Not commented.

**meta** Not commented.

**object** Not commented.

**ol** Not commented.

**optgroup**  
Not commented.

**option** Not commented.

**p** Not commented.

**param** Not commented.

**password**  
Not commented.

**pre** Not commented.

**pre: aString**  
Not commented.

**quote** Not commented.

**quote: aString**  
Not commented.

**radio** Not commented.

**reset** Not commented.

**script** Not commented.

**script: aString**  
Not commented.

**select** Not commented.

**small** Not commented.

**small: aString**  
Not commented.

**space** Not commented.

**span** Not commented.

**strong** Not commented.

**strong: aString**  
Not commented.

**stylesheet**  
Not commented.

**submit** Not commented.

**subscript**  
Not commented.

**subscript: aString**  
Not commented.

**superscript**

Not commented.

**superscript: aString**

Not commented.

**table**

Not commented.

**tbody**

Not commented.

**td**

Not commented.

**textarea**

Not commented.

**tfoot**

Not commented.

**th**

Not commented.

**thead**

Not commented.

**tr**

Not commented.

**tt**

Not commented.

**ul**

Not commented.

**var**

Not commented.

**var: aString**

Not commented.

## 11.47 Iliad.ILHtmlElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

**11.47.1 Iliad.ILHtmlElement: accessing****beHtml5**

Not commented.

**beXhtml10Strict**

Not commented.

**beXhtml10Transitional**

Not commented.

**beXhtml11**

Not commented.

**doctype** Answer 'doctype'.**doctype: aString**

Not commented.

**setXmlTag**

Not commented.

**tag** Answer 'html'.**xmlTag** Answer 'xmlTag'.**xmlTag: aString**

Not commented.

**11.47.2 Iliad.ILHtmlElement: accessing attributes****version: aNumber**

Not commented.

**xmlns** Not commented.**xmlns: aString**

Not commented.

**11.47.3 Iliad.ILHtmlElement: accessing attributes-events****onEvent: event add: aString**

Not commented.

#### 11.47.4 Iliad.ILHtmlElement: defaults

**defaultXmlns**

Answer ‘http://www.w3.org/1999/xhtml’.

#### 11.47.5 Iliad.ILHtmlElement: printing

**beforePrintHtml**

Not commented.

**printHtmlOn: aStream**

Not commented.

#### 11.47.6 Iliad.ILHtmlElement: testing

**hasXmlTag**

Not commented.

### 11.48 Iliad.ILHTMLPage

Defined in namespace Iliad

Superclass: Iliad.ILBuildable

Category: Iliad-Core-Buildables

#### 11.48.1 Iliad.ILHTMLPage: accessing attributes

**body** Not commented.

**head** Not commented.

**html** Not commented.

#### 11.48.2 Iliad.ILHTMLPage: building

**build** Not commented.

## 11.49 Iliad.ILId

Defined in namespace Iliad

Superclass: ByteArray

Category: Iliad-Core-Utilities

### 11.49.1 Iliad.ILId class: defaults

**defaultSize**

Answer '12'.

### 11.49.2 Iliad.ILId class: instance creation

**new** Not commented.

**new: anInteger**

Not commented.

### 11.49.3 Iliad.ILId: accessing

**table** Not commented.

### 11.49.4 Iliad.ILId: initialization

**initialize**

Not commented.

### 11.49.5 Iliad.ILId: printing

**printOn: aStream**

Not commented.

## 11.50 Iliad.ILImageElement

Defined in namespace Iliad

Superclass: Iliad.ILClosingElement

Category: Iliad-Core-XHTMLElements

### 11.50.1 Iliad.ILImageElement: accessing

**tag**      Answer ‘img’.

### 11.50.2 Iliad.ILImageElement: accessing attributes

**alt: aString**  
Not commented.

**height: anInteger**  
Not commented.

**ismap**      Not commented.

**longdesc: aString**  
Not commented.

**src: aString**  
Not commented.

**src: src alt: alt**  
Not commented.

**usemap: aString**  
Not commented.

**width: anInteger**  
Not commented.

### 11.50.3 Iliad.ILImageElement: printing

**beforePrintHtml**  
Not commented.



## 11.51 Iliad.ILInformationWidget

Defined in namespace Iliad  
Superclass: Iliad.ILWidget  
Category: Iliad-Core-Buildables

### 11.51.1 Iliad.ILInformationWidget: accessing

**informationString**  
Answer 'informationString'.

**informationString: aString**  
Not commented.

### 11.51.2 Iliad.ILInformationWidget: building

**contents**  
Not commented.

## 11.52 Iliad.ILInputElement

Defined in namespace Iliad  
Superclass: Iliad.ILFormElementElement  
Category: Iliad-Core-XHTMLElements

### 11.52.1 Iliad.ILInputElement: accessing

**tag** Answer 'input'.

### 11.52.2 Iliad.ILInputElement: accessing attributes

**accept: aString**  
Not commented.

**accepts: aCollection**  
Not commented.

**alt: aString**  
Not commented.

**ismap** Not commented.

**maxlength: anInteger**  
Not commented.

**size: anInteger**  
Not commented.

**usemap: aString**  
Not commented.

**value: aString**  
Not commented.

### 11.52.3 Iliad.ILInputElement: accessing attributes-types

**beFile** Not commented.

**beHidden**  
Not commented.

**beImage**  
Not commented.

**bePassword**  
Not commented.

**beReset**  
Not commented.

**beSubmit**  
Not commented.

**beText** Not commented.

**type: aString**  
Not commented.

**11.52.4 Iliad.ILInputElement: printing****beforePrintHtml**

Not commented.

**printHtmlOn: aStream**

Not commented.

**11.53 Iliad.ILJson****Defined in namespace Iliad****Superclass: Iliad.ILObject****Category: Iliad-Core-lib-JSON**

This class reads and writes JSON format data - strings, numbers, boolean, nil, arrays and dictionaries. See <http://www.crockford.com/JSON/index.html>. It has been extended with syntax for invoking a prearranged list of constructors on read objects.

**11.53.1 Iliad.ILJson: accessing****ctorMap**

Answer 'ctorMap'.

**ctorMap: m**

Not commented.

**stream** Answer the value of stream**stream: anObject**

Set the value of stream

**11.53.2 Iliad.ILJson: parsing****readAny**

This is the main entry point for the JSON parser. See also readFrom: on the class side.

**readFrom: aStream**

Not commented.

## 11.54 Iliad.ILJsonHandler

Defined in namespace Iliad

Superclass: Iliad.ILRequestHandler

Category: Iliad-Core-RequestHandlers

### 11.54.1 Iliad.ILJsonHandler: initialization

**initialize**

Not commented.

### 11.54.2 Iliad.ILJsonHandler: responding

**produceResponse**

Not commented.

### 11.54.3 Iliad.ILJsonHandler: testing

**shouldRedirect**

Not commented.

**shouldUpdateApplication**

Not commented.

## 11.55 Iliad.ILJsonObject

Defined in namespace Iliad

Superclass: Iliad.ILObject

Category: Iliad-Core-lib-JSON

### 11.55.1 Iliad.ILJsonObject: accessing

**at: key** Not commented.

**at: key ifAbsent: aBlock**  
Not commented.

**at: key put: value**  
Not commented.

**properties**  
Answer 'properties'.

### 11.55.2 Iliad.ILJsonObject: error handling

**doesNotUnderstand: aMessage**  
Not commented.

### 11.55.3 Iliad.ILJsonObject: initialization

**initialize**  
Not commented.

## 11.56 Iliad.ILJsonSyntaxError

Defined in namespace Iliad

Superclass: Grease.Grease.GRError

Category: Iliad-Core-lib-JSON

Class Json signals instances of me when an input stream contains invalid JSON input.

## 11.57 Iliad.ILLabelElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.57.1 Iliad.ILLabelElement: accessing

**tag**        Answer ‘label’.

### 11.57.2 Iliad.ILLabelElement: accessing attributes

**accesskey: aCharacter**  
Not commented.

**for: aString**  
Not commented.

## 11.58 Iliad.ILLegendElement

Defined in namespace Iliad  
Superclass: Iliad.ILHTMLBuilderElement  
Category: Iliad-Core-XHTMLElements

### 11.58.1 Iliad.ILLegendElement: accessing

**tag**        Answer ‘legend’.

### 11.58.2 Iliad.ILLegendElement: accessing attributes

**accesskey: aCharacter**  
Not commented.

## 11.59 Iliad.ILLinkableElement

Defined in namespace Iliad  
Superclass: Iliad.ILHTMLBuilderElement  
Category: Iliad-Core-XHTMLElements

**11.59.1 Iliad.ILLinkableElement: accessing attributes**

**accesskey: aCharacter**  
Not commented.

**charset: aString**  
Not commented.

**contentType: aString**  
Not commented.

**href: aString**  
Not commented.

**hreflang: aString**  
Not commented.

**linkToApplication: anApplicationClass**  
Not commented.

**linkToApplication: anApplicationClass controller: aString**  
Not commented.

**linkToLocal: aString**  
Not commented.

**target: aString**  
Not commented.

**type: aString**  
Not commented.

**11.59.2 Iliad.ILLinkableElement: accessing attributes-relationships**

**beAlternate**  
Not commented.

**beAppendix**  
Not commented.

**beBookmark**  
Not commented.

**beChapter**  
Not commented.

**beContents**

Not commented.

**beCopyright**

Not commented.

**beFavicon**

Not commented.

**beGlossary**

Not commented.

**beHelp** Not commented.**beIndex**

Not commented.

**beNext** Not commented.**bePrev** Not commented.**bePrevious**

Not commented.

**beRss** Not commented.**beSection**

Not commented.

**beStart** Not commented.**beStylesheet**

Not commented.

**beSubsection**

Not commented.

**rel: aString**

Not commented.

**11.59.3 Iliad.ILLinkableElement: accessing attributes-  
reverse links****fromAlternate**

Not commented.

**fromAppendix**

Not commented.



**fromBookmark**  
Not commented.

**fromChapter**  
Not commented.

**fromContents**  
Not commented.

**fromCopyright**  
Not commented.

**fromGlossary**  
Not commented.

**fromHelp**  
Not commented.

**fromIndex**  
Not commented.

**fromNext**  
Not commented.

**fromPrev**  
Not commented.

**fromPrevious**  
Not commented.

**fromSection**  
Not commented.

**fromStart**  
Not commented.

**fromStylesheet**  
Not commented.

**fromSubsection**  
Not commented.

**rev: aString**  
Not commented.

## 11.60 Iliad.ILLinkElement

Defined in namespace Iliad

Superclass: Iliad.ILLinkableElement

Category: Iliad-Core-XHTMLElements

### 11.60.1 Iliad.ILLinkElement: accessing

**tag** Answer ‘link’.

### 11.60.2 Iliad.ILLinkElement: accessing attributes

**allMedia**

Not commented.

**auralMedia**

Not commented.

**brailleMedia**

Not commented.

**handheldMedia**

Not commented.

**media: aString**

Not commented.

**printMedia**

Not commented.

**projectionMedia**

Not commented.

**screenMedia**

Not commented.

**ttyMedia**

Not commented.

**tvMedia**

Not commented.

**type: aString**

Not commented.

### 11.60.3 Iliad.ILLinkElement: printing

**printHtmlOn: aStream**  
Not commented.

## 11.61 Iliad.ILListElement

Defined in namespace Iliad  
Superclass: Iliad.ILHTMLBuilderElement  
Category: Iliad-Core-XHTMLElements

### 11.61.1 Iliad.ILListElement: accessing

**beOrdered**  
Not commented.

**beUnordered**  
Not commented.

**tag** Answer 'tag'.

**tag: aString**  
Not commented.

## 11.62 Iliad.ILListItemElement

Defined in namespace Iliad  
Superclass: Iliad.ILHTMLBuilderElement  
Category: Iliad-Core-XHTMLElements

### 11.62.1 Iliad.ILListItemElement: accessing

**tag** Answer 'li'.

## 11.63 Iliad.ILMapElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.63.1 Iliad.ILMapElement: accessing

**tag**          Answer ‘map’.

### 11.63.2 Iliad.ILMapElement: accessing attributes

**classes: aCollection**

Not commented.

## 11.64 Iliad.ILMemoryDirectory

Defined in namespace Iliad

Superclass: Iliad.ILDirectory

Category: Iliad-Core-RequestHandlers

### 11.64.1 Iliad.ILMemoryDirectory class: maintenance

**addAllFilesIn: aPathString**

Answer the receiver.

**addFileAt: aPath**

Answer the receiver.

### 11.64.2 Iliad.ILMemoryDirectory: accessing

**fileContentsFor: aString**

Not commented.

**fileSelectors**

Not commented.

**path**          answer the base path of the memory directory

### 11.64.3 Iliad.ILMemoryDirectory: maintenance

**deployFiles**

Write to disk the files that the receiver use to serve as methods.  
The files are stored in a subfolder named like the classname of the receiver in a subfolder of Smalltalk image folder.

**removeFile: aFilename**

Not commented.

### 11.64.4 Iliad.ILMemoryDirectory: testing

**isFileSelector: aSelector**

Only methods in 'files' protocol are allowed to be served as files

## 11.65 Iliad.ILMetaElement

Defined in namespace Iliad

Superclass: Iliad.ILClosingElement

Category: Iliad-Core-XHTMLElements

### 11.65.1 Iliad.ILMetaElement: accessing

**tag**      Answer 'meta'.

### 11.65.2 Iliad.ILMetaElement: accessing attributes

**class: aString**

Not commented.

**classes: aCollection**

Not commented.

**content: aString**

Not commented.

**contentType**

Not commented.

**expires** Not commented.

**httpEquiv: aString**  
Not commented.

**name: aString**  
Not commented.

**refresh** Not commented.

**scheme: aString**  
Not commented.

**setCookie**  
Not commented.

**title: aString**  
Not commented.

### 11.65.3 Iliad.ILMetaElement: accessing attributes-events

**onEvent: event add: aString**  
Not commented.

### 11.65.4 Iliad.ILMetaElement: printing

**beforePrintHtml**  
Not commented.

## 11.66 Iliad.ILModelProxy

Defined in namespace Iliad  
Superclass: Object  
Category: Iliad-Core-Utilities

### 11.66.1 Iliad.ILModelProxy class: instance creation

**on: anObject**  
Not commented.

### 11.66.2 Iliad.ILModelProxy: accessing

**model** Answer 'model'.

### 11.66.3 Iliad.ILModelProxy: forwarding

**commit** Not commented.

**doesNotUnderstand: aMessage**  
Not commented.

### 11.66.4 Iliad.ILModelProxy: initializing

**setModel: anObject**  
Not commented.

## 11.67 Iliad.ILNotFoundHandler

Defined in namespace Iliad  
Superclass: Iliad.ILRequestHandler  
Category: Iliad-Core-RequestHandlers

### 11.67.1 Iliad.ILNotFoundHandler: responding

**produceResponse**  
Not commented.

## 11.68 Iliad.ILObject

Defined in namespace Iliad  
Superclass: Grease.Grease.GRObjct  
Category: Iliad-Core-Utilities

ILObject is the base class for all Iliad classes. It guarantees that #initialize is send upon object creation. Additionally it provides convenience methods for accessing the current context, session and application.

### 11.68.1 Iliad.ILObject: accessing

**application**

Not commented.

**context** Not commented.

**request** Not commented.

**session** Not commented.

**urlBuilder**

Not commented.

## 11.69 Iliad.ILObjectElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.69.1 Iliad.ILObjectElement: accessing

**tag** Answer ‘object’.

### 11.69.2 Iliad.ILObjectElement: accessing attributes

**archive: aString**

Not commented.

**archives: aCollection**

Not commented.

**classid: aString**

Not commented.

**codebase: aString**

Not commented.

**codetype: aString**

Not commented.



**data: aString**  
Not commented.

**declare** Not commented.

**declareOnly**  
Not commented.

**height: anInteger**  
Not commented.

**name: aString**  
Not commented.

**standby: aString**  
Not commented.

**tabindex: anInteger**  
Not commented.

**type: aString**  
Not commented.

**usemap: aString**  
Not commented.

**width: anInteger**  
Not commented.

## 11.70 Iliad.ILOptionElement

Defined in namespace Iliad  
Superclass: Iliad.ILHTMLBuilderElement  
Category: Iliad-Core-XHTMLElements

### 11.70.1 Iliad.ILOptionElement: accessing

**tag** Answer ‘option’.

### 11.70.2 Iliad.ILOptionElement: accessing attributes

**disabled**

Not commented.

**disabled: aBoolean**

Not commented.

**label: aString**

Not commented.

**selected** Not commented.

**selected: aBoolean**

Not commented.

**value: aString**

Not commented.

### 11.70.3 Iliad.ILOptionElement: accessing-attributes

**action: aBlock**

Not commented.

## 11.71 Iliad.ILOptionGroupElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.71.1 Iliad.ILOptionGroupElement: accessing

**tag** Answer “optgroup”.

### 11.71.2 Iliad.ILOptionGroupElement: accessing attributes

**disabled**

Not commented.

**label: aString**

Not commented.

## 11.72 Iliad.ILParagraphElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.72.1 Iliad.ILParagraphElement: accessing

**tag** Answer ‘p’.

## 11.73 Iliad.ILParameterElement

Defined in namespace Iliad

Superclass: Iliad.ILClosingElement

Category: Iliad-Core-XHTMLElements

### 11.73.1 Iliad.ILParameterElement: accessing

**tag** Answer ‘param’.

### 11.73.2 Iliad.ILParameterElement: accessing attributes

**beData** Not commented.

**beObject**  
Not commented.

**beReference**  
Not commented.

**name: aString**  
Not commented.

**type: aString**  
Not commented.

**value: aString**  
Not commented.

**valuetype: aString**  
Not commented.

### 11.73.3 Iliad.ILParameterElement: adding

**add: anElement**

Not commented.

### 11.73.4 Iliad.ILParameterElement: printing

**beforePrintHtml**

Not commented.

## 11.74 Iliad.ILPluggableWidget

Defined in namespace Iliad

Superclass: Iliad.ILWidget

Category: Iliad-Core-Buildables

### 11.74.1 Iliad.ILPluggableWidget: accessing

**contentsBlock**

Not commented.

**contentsBlock: aBlock**

Not commented.

### 11.74.2 Iliad.ILPluggableWidget: building

**contents**

Not commented.

## 11.75 Iliad.ILPrependDelegator

Defined in namespace Iliad

Superclass: Iliad.ILDelegator

Category: Iliad-Core-Buildables

### 11.75.1 Iliad.ILPrependDelegator: building

#### contents

Not commented.

## 11.76 Iliad.ILProfiler

Defined in namespace Iliad

Superclass: Iliad.ILDecorator

Category: Iliad-Core-Buildables

### 11.76.1 Iliad.ILProfiler: building

#### contents

Not commented.

## 11.77 Iliad.ILRadioButtonElement

Defined in namespace Iliad

Superclass: Iliad.ILFormElementElement

Category: Iliad-Core-XHTMLElements

### 11.77.1 Iliad.ILRadioButtonElement: accessing

**tag** Answer 'input'.

### 11.77.2 Iliad.ILRadioButtonElement: accessing attributes

**action: aBlock**  
Not commented.

**beSelected**  
Not commented.

**selected: aBoolean**  
Not commented.

**value: aString**  
Not commented.

### 11.77.3 Iliad.IIRadioButtonElement: printing

**beforePrintHtml**  
Not commented.

## 11.78 Iliad.IIRawHtmlElement

Defined in namespace Iliad  
Superclass: Iliad.IIElement  
Category: Iliad-Core-XHTMLElements

### 11.78.1 Iliad.IIRawHtmlElement: accessing

**contents**  
Not commented.

**contents: aString**  
Not commented.

### 11.78.2 Iliad.IIRawHtmlElement: printing

**printHtmlOn: aStream**  
Not commented.

## 11.79 Iliad.IIRedirectHandler

Defined in namespace Iliad  
Superclass: Iliad.IIRequestHandler  
Category: Iliad-Core-RequestHandlers

### 11.79.1 Iliad.ILRedirectHandler: responding

**produceResponse**

Not commented.

### 11.79.2 Iliad.ILRedirectHandler: testing

**shouldRespondInJson**

Not commented.

## 11.80 Iliad.ILRequest

Defined in namespace Iliad

Superclass: Object

Category: Iliad-Core-lib-HTTP

From Seaside 2.8.

I am a server independent http request object.

### 11.80.1 Iliad.ILRequest class: instance creation

**new** Not commented.

### 11.80.2 Iliad.ILRequest: accessing

**actionField**

Not commented.

**ajaxUploadField**

Not commented.

**at: key** Not commented.

**at: key ifAbsent: aBlock**

Not commented.

**cookies** Answer 'cookies'.

**cookies: anObject**

Not commented.

**fields**      Answer 'fields'.

**fields: anObject**  
Not commented.

**hashLocationField**  
Not commented.

**headerAt: aKey**  
Not commented.

**headerAt: aKey ifAbsent: aBlock**  
Not commented.

**headers**    Answer 'headers'.

**headers: aDictionary**  
Not commented.

**jsonField**  
Not commented.

**method**     Answer 'method'.

**method: aString**  
Not commented.

**nativeRequest**  
Answer 'nativeRequest'.

**nativeRequest: aRequest**  
Not commented.

**password**  
Not commented.

**sessionField**  
Not commented.

**stateField**  
Not commented.

**url**        Answer 'url'.

**url: anUrl**  
Not commented.

**user**        Not commented.

**userAgent**  
Not commented.



### 11.80.3 Iliad.ILRequest: initialization

**initialize**

Not commented.

### 11.80.4 Iliad.ILRequest: testing

**hasCookies**

Not commented.

**isAjaxRequest**

Not commented.

**isGet**

Not commented.

**isPost**

Not commented.

**isPrefetch**

Not commented.

**isPut**

Not commented.

**isTypeOfRequestForJson**

Not commented.

**isTypeOfRequestForRedirect**

Not commented.

## 11.81 Iliad.ILRequestHandler

Defined in namespace Iliad

Superclass: Iliad.ILObject

Category: Iliad-Core-RequestHandlers

I implement the basic behavior needed to handle requests.

My subclasses must override `#newResponse` to handle requests, and most likely `#produceResponse`. The current handled request is answered by the `#request` method inherited from `ILObject`

### 11.81.1 Iliad.ILRequestHandler: request handling

**handleRequest**

Not commented.

### 11.81.2 Iliad.ILRequestHandler: responding

**produceResponse**

Not commented.

## 11.82 Iliad.ILResponse

Defined in namespace Iliad

Superclass: Object

Category: Iliad-Core-lib-HTTP

From Seaside 2.8

I am a server independent http response object.

### 11.82.1 Iliad.ILResponse class: instance creation

**forbidden**

Not commented.

**new**

Not commented.

**notFound**

Not commented.

**ok**

Not commented.

**redirect**

Not commented.

### 11.82.2 Iliad.ILResponse: accessing

**addCookie: aCookie**

Not commented.

**contentType**

Answer 'contentType'.

**contentType: mimeTypeString**

Not commented.

**contents**

Not commented.

**contents: aStream**

Not commented.

**cookieAt: key put: value**

Not commented.

**cookies** Not commented.

**headerAt: key put: value**

Not commented.

**headers** Not commented.

**initialize**

Not commented.

**release** Not commented.

**status** Answer 'status'.

**status: anInteger**

Not commented.

**stream** Answer 'stream'.

**stream: aStream**

Not commented.

### 11.82.3 Iliad.ILResponse: convenience

**attachmentWithFileName: aString**

Not commented.

**basicAuthenticationRealm: aString**

Not commented.

**redirectTo: aString**

Not commented.

### 11.82.4 Iliad.ILResponse: printing

**printOn: aStream**

Not commented.

### 11.82.5 Iliad.ILResponse: status

**authenticationFailed**  
Not commented.

**forbidden**  
Not commented.

**internalError**  
Not commented.

**notFound**  
Not commented.

**ok** Not commented.

**redirect** Not commented.

### 11.82.6 Iliad.ILResponse: streaming

**nextPut: aCharacter**  
Not commented.

**nextPutAll: aString**  
Not commented.

**space** Not commented.

## 11.83 Iliad.ILResponseNotification

Defined in namespace Iliad

Superclass: Notification

Category: Iliad-Core-RequestHandlers

### 11.83.1 Iliad.ILResponseNotification: accessing

**response**  
Answer 'response'.

**response: aResponse**  
Not commented.

## 11.84 Iliad.ILRoute

Defined in namespace Iliad

Superclass: Iliad.ILObject

Category: Iliad-Core-Dispatching

I represent a route, used to dispatch a request. My path is a collection of string, representing each part of the path of an url, and can be streamed with methods in the <streaming> protocol.

### 11.84.1 Iliad.ILRoute class: accessing

**delimiters**

Not commented.

### 11.84.2 Iliad.ILRoute class: instance creation

**path: aCollection**

Not commented.

### 11.84.3 Iliad.ILRoute: accessing

**basePath**

Not commented.

**delimiter**

Not commented.

**delimiters**

Not commented.

**path**

Not commented.

### 11.84.4 Iliad.ILRoute: converting

**pathString**

Not commented.

**uriString**

Not commented.

### 11.84.5 Iliad.ILRoute: initialization

**initializeWithPath: aCollection**

Not commented.

### 11.84.6 Iliad.ILRoute: iterating

**currentPath**

Return an absolute url of the current streamed path separated with delimiters, like this: /foo/bar/baz

### 11.84.7 Iliad.ILRoute: printing

**printOn: aStream**

Not commented.

### 11.84.8 Iliad.ILRoute: streaming

**atEnd** Not commented.

**next** Not commented.

**peek** Not commented.

**position** Not commented.

**position: anInteger**  
Not commented.

**reset** Not commented.

## 11.85 Iliad.ILRouter

Defined in namespace Iliad

Superclass: Iliad.ILObject

Category: Iliad-Core-Dispatching

### 11.85.1 Iliad.ILRouter: accessing

**application**

Answer 'application'.

**controller**

Answer 'controller'.

**hashRoute**

Not commented.

**route**

Not commented.

### 11.85.2 Iliad.ILRouter: dispatching

**dispatchRequest**

Not commented.

### 11.85.3 Iliad.ILRouter: initialization

**initialize**

Not commented.

### 11.85.4 Iliad.ILRouter: testing

**shouldRedirect**

Not commented.

### 11.85.5 Iliad.ILRouter: updating

**updateApplicationFromRoute**

Not commented.

## 11.86 Iliad.ILRubyTextElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.86.1 Iliad.ILRubyTextElement: accessing

**tag**      Answer ‘rt’.

### 11.86.2 Iliad.ILRubyTextElement: accessing attributes

**rbspan: anInteger**  
Not commented.

## 11.87 Iliad.ILScriptElement

Defined in namespace Iliad  
Superclass: Iliad.ILHTMLBuilderElement  
Category: Iliad-Core-XHTMLElements

### 11.87.1 Iliad.ILScriptElement: accessing

**contents**  
Not commented.

**contents: aString**  
Not commented.

**tag**      Answer ‘script’.

### 11.87.2 Iliad.ILScriptElement: accessing attributes

**beJavascript**  
Not commented.

**charset: aString**  
Not commented.

**defer**      Not commented.

**language: aString**  
Not commented.

**src: aString**  
Not commented.

**type: aString**  
Not commented.



### 11.87.3 Iliad.ILScriptElement: printing

**beforePrintHtml**

Not commented.

**printHtmlOn: aStream**

do not encode contents!!

## 11.88 Iliad.ILSelectElement

Defined in namespace Iliad

Superclass: Iliad.ILFormElementElement

Category: Iliad-Core-XHTMLElements

### 11.88.1 Iliad.ILSelectElement: accessing

**tag** Answer 'select'.

### 11.88.2 Iliad.ILSelectElement: accessing attributes

**action: aBlock**

This method should not be called for instances of this class.

**beMultiple**

Not commented.

**size: anInteger**

Not commented.

### 11.88.3 Iliad.ILSelectElement: initialize release

**initialize**

Not commented.

## 11.89 Iliad.ILSequence

Defined in namespace Iliad

Superclass: Iliad.ILWidget

Category: Iliad-Core-Buildables

### 11.89.1 Iliad.ILSequence: building

**build** Not commented.

**contents**

This method should not be called for instances of this class.

### 11.89.2 Iliad.ILSequence: control flow

**restart** Not commented.

**start** Answer the receiver.

### 11.89.3 Iliad.ILSequence: testing

**shouldStart**

Not commented.

## 11.90 Iliad.ILSession

Defined in namespace Iliad

Superclass: Iliad.ILObject

Category: Iliad-Core-Sessions

I represent a session in Iliad. I persist as long as I am active (i.e. an user interacts with an application). When I am inactive, I expire after a timeout set by `#expirySeconds`. I also store actions and applications

### 11.90.1 Iliad.ILSession: accessing

**applications**

Not commented.

**dirtyWidgets**

Not commented.

**encoding**

Not commented.

**id**

Answer 'id'.

**id: anObject**

Not commented.

**nextId**

Not commented.

**previousStateRegistry**

Not commented.

**route**

Not commented.

**sessionManager**

Not commented.

**stateRegistry**

Not commented.

### 11.90.2 Iliad.ILSession: accessing others

**otherAt: aKey**

Not commented.

**otherAt: aKey ifAbsentPut: aBlock**

Not commented.

**otherAt: aKey put: anObject**

Not commented.

**others**

Not commented.

### 11.90.3 Iliad.ILSession: accessing preferences

**charset** Not commented.

**charset: aString**  
Not commented.

**expirySeconds**  
Not commented.

**expirySeconds: anInteger**  
Not commented.

**language**  
Not commented.

**language: aSymbol**  
Not commented.

**preferenceAt: aSymbol**  
Not commented.

**preferenceAt: aSymbol ifAbsentPut: aBlock**  
Not commented.

**preferenceAt: aSymbol put: anObject**  
Not commented.

**preferences**  
Not commented.

**refreshOnBacktrack**  
Not commented.

**refreshOnBacktrack: aBoolean**  
Not commented.

**useCookies**  
Not commented.

**useCookies: aBoolean**  
Not commented.

#### 11.90.4 Iliad.ILSession: accessing timestamps

**createdTimestamp**

Not commented.

**modifiedTimestamp**

Not commented.

**setCreatedTimestamp**

Not commented.

**setModifiedTimestamp**

Not commented.

**timestampAt: aSymbol**

Not commented.

**timestampAt: aSymbol ifAbsentPut: aBlock**

Not commented.

**timestampAt: aSymbol put: anObject**

Not commented.

**timestamps**

Not commented.

#### 11.90.5 Iliad.ILSession: actions

**actionAt: aKeyString**

Not commented.

**actionFor: aBlock**

Not commented.

**actionRegistry**

Not commented.

**evaluateActionKey: aString**

Not commented.

**registerAction: anAction**

Not commented.

**registerActionFor: aBlock**

Not commented.

### 11.90.6 Iliad.ILSession: cleaning

**clearActionRegistry**

Not commented.

**clearRedirectUrl**

Not commented.

**clearStateRegistries**

Not commented.

### 11.90.7 Iliad.ILSession: defaults

**defaultExpirySeconds**

Answer '1800'.

**defaultLanguage**

Answer 'en'.

### 11.90.8 Iliad.ILSession: events

**onExpire**

Not commented.

### 11.90.9 Iliad.ILSession: initialization

**initialize**

Not commented.

### 11.90.10 Iliad.ILSession: redirection

**redirect** Not commented.

**redirectTo: anUrlString**

Not commented.

**redirectToIndex**

Not commented.

**redirectToLocal: anUrlString**

Not commented.

**redirectUrl**

Answer 'redirectUrl'.

**redirectUrl: aString**

Not commented.

**11.90.11 Iliad.ILSession: states****newStateRegistry**

Not commented.

**stateRegistries**

Not commented.

**stateRegistryAt: aString**

Not commented.

**11.90.12 Iliad.ILSession: testing****isExpired**

Not commented.

**shouldUseSessionField**

Not commented.

**11.91 Iliad.ILSessionManager**

**Defined in namespace Iliad**

**Superclass: Iliad.ILObject**

**Category: Iliad-Core-Sessions**

I am responsible for managing, creating and removing sessions. The class method #current answers my only instance.

You shouldn't subclass me. Instead, you can change my preferences with methods in the <accessing preferences> protocol.

In addition, do not try to access the current session from here, use ILContext>>session instead.

– maintenance –

To remove all sessions, even not expired ones, call #removeAllSessions. To remove all expired sessions, call #removeExpiredSessions

### 11.91.1 Iliad.ILSessionManager class: instance creation

**current** Not commented.

**new** This method should not be called for instances of this class.

### 11.91.2 Iliad.ILSessionManager: accessing

**expiredSessions**  
Not commented.

**sessions** Not commented.

### 11.91.3 Iliad.ILSessionManager: accessing preferences

**cookieName**  
Not commented.

**cookieName: aString**  
Not commented.

**preferenceAt: aSymbol**  
Not commented.

**preferenceAt: aSymbol ifAbsentPut: aBlock**  
Not commented.

**preferenceAt: aSymbol put: anObject**  
Not commented.

**preferences**  
Not commented.

**sessionClass**  
Not commented.

**sessionClass: aSessionClass**  
Not commented.



#### 11.91.4 Iliad.ILSessionManager: adding-removing

**addSession: aSession**

Not commented.

**removeSession: aSession**

Not commented.

**sessionFor: aRequest**

Answer the according session for <aRequest>. the session id may be found from <aRequest> cookies or <aRequest> fields. If no session is found, create and return a new one

#### 11.91.5 Iliad.ILSessionManager: enumerating

**sessionsDo: aBlock**

Not commented.

#### 11.91.6 Iliad.ILSessionManager: initialization

**initialize**

Not commented.

#### 11.91.7 Iliad.ILSessionManager: testing

**hasSession: aSession**

Not commented.

**shouldRemoveExpiredSessions**

Do not remove all expired sessions for each request

### 11.92 Iliad.ILSpanElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.92.1 Iliad.ILSpanElement: accessing

**tag**      Answer ‘span’.

## 11.93 Iliad.ILStateRegistry

Defined in namespace Iliad

Superclass: Iliad.ILObject

Category: Iliad-Core-Sessions

### 11.93.1 Iliad.ILStateRegistry class: instance creation

**fromRegistry: aStateRegistry**  
Not commented.

### 11.93.2 Iliad.ILStateRegistry: accessing

**key**      Not commented.

**setStates: aDictionary**  
Not commented.

**stateAt: aWidget**  
Not commented.

**states**      Not commented.

**widgets**      Not commented.

### 11.93.3 Iliad.ILStateRegistry: states

**dirtyChildrenOf: aBuildable**  
Not commented.

**dirtyWidgets**  
Answer all widgets which state has changed

**register: aWidget**  
Not commented.

**unregister: aWidget**  
Not commented.

**unregisterAllWindows**  
Not commented.

#### 11.93.4 Iliad.ILStateRegistry: testing

**isWidgetDirty: aWidget**  
Not commented.

### 11.94 Iliad.ILTableBodyElement

Defined in namespace Iliad  
Superclass: Iliad.ILTableElementElement  
Category: Iliad-Core-XHTMLElements

#### 11.94.1 Iliad.ILTableBodyElement: accessing

**tag** Answer 'tbody'.

### 11.95 Iliad.ILTableCellElement

Defined in namespace Iliad  
Superclass: Iliad.ILTableElementElement  
Category: Iliad-Core-XHTMLElements

#### 11.95.1 Iliad.ILTableCellElement: accessing attributes-table

**abbr: aString**  
Not commented.

**axis: aString**  
Not commented.

**colScope**

Not commented.

**colgroupScope**

Not commented.

**colspan: anInteger**

Not commented.

**headers: aCollection**

Not commented.

**rowScope**

Not commented.

**rowgroupScope**

Not commented.

**rowspan: anInteger**

Not commented.

**scope: aString**

Not commented.

## 11.96 Iliad.ILTableDataElement

Defined in namespace Iliad

Superclass: Iliad.ILTableCellElement

Category: Iliad-Core-XHTMLElements

### 11.96.1 Iliad.ILTableDataElement: accessing

**tag** Answer 'td'.

## 11.97 Iliad.ILTableElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

**11.97.1 Iliad.ILTableElement: accessing**

**tag**           Answer ‘table’.

**11.97.2 Iliad.ILTableElement: accessing attributes**

**aboveFrame**  
              Not commented.

**allRules**   Not commented.

**belowFrame**  
              Not commented.

**border: anInteger**  
              Not commented.

**borderFrame**  
              Not commented.

**boxFrame**  
              Not commented.

**cellpadding: anInteger**  
              Not commented.

**cellspacing: anInteger**  
              Not commented.

**colsRules**  
              Not commented.

**frame: aString**  
              Not commented.

**groupRules**  
              Not commented.

**hsidesFrame**  
              Not commented.

**lhsFrame**  
              Not commented.

**noRules**  
              Not commented.

**rhsFrame**

Not commented.

**rowsRules**

Not commented.

**rules: aString**

Not commented.

**summary: aString**

Not commented.

**voidFrame**

Not commented.

**vsidesFrame**

Not commented.

**width: anInteger**

Not commented.

## 11.98 Iliad.ILTableElementElement

Defined in namespace Iliad

Superclass: Iliad.ILHTMLBuilderElement

Category: Iliad-Core-XHTMLElements

### 11.98.1 Iliad.ILTableElementElement: accessing attributes-table

**align: aString**

Not commented.

**baselineValign**

Not commented.

**bottomValign**

Not commented.

**centerAlign**

Not commented.

**character: aCharacter**

Not commented.

**characterAlign**

Not commented.

**charoff: anInteger**

Not commented.

**justifyAlign**

Not commented.

**leftAlign**

Not commented.

**middleValign**

Not commented.

**rightAlign**

Not commented.

**topValign**

Not commented.

**valign: aString**

Not commented.

## 11.99 Iliad.ILTableFootElement

Defined in namespace Iliad

Superclass: Iliad.ILTableElementElement

Category: Iliad-Core-XHTMLElements

### 11.99.1 Iliad.ILTableFootElement: accessing

**tag** Answer ‘tfoot’.

## 11.100 Iliad.ILTableHeadElement

Defined in namespace Iliad

Superclass: Iliad.ILTableElementElement

Category: Iliad-Core-XHTMLElements

### 11.100.1 Iliad.ILTableHeadElement: accessing

**tag**      Answer ‘thead’.

## 11.101 Iliad.ILTableHeaderElement

Defined in namespace Iliad

Superclass: Iliad.ILTableCellElement

Category: Iliad-Core-XHTMLElements

### 11.101.1 Iliad.ILTableHeaderElement: accessing

**tag**      Answer ‘th’.

## 11.102 Iliad.ILTableRowElement

Defined in namespace Iliad

Superclass: Iliad.ILTableCellElement

Category: Iliad-Core-XHTMLElements

### 11.102.1 Iliad.ILTableRowElement: accessing

**tag**      Answer ‘tr’.

## 11.103 Iliad.ILTextAreaElement

Defined in namespace Iliad

Superclass: Iliad.ILFormElementElement

Category: Iliad-Core-XHTMLElements



**11.103.1 Iliad.ILTextAreaElement: accessing**

**tag** Answer “textarea”.

**11.103.2 Iliad.ILTextAreaElement: accessing attributes**

**cols: anInteger**  
Not commented.

**rows: anInteger**  
Not commented.

**tabindex: anInteger**  
Not commented.

**11.104 Iliad.ILTextElement**

Defined in namespace Iliad  
Superclass: Iliad.ILElement  
Category: Iliad-Core-Elements

**11.104.1 Iliad.ILTextElement: accessing**

**contents**  
Not commented.

**contents: aString**  
Not commented.

**tag** Answer ‘tag’.

**tag: aString**  
Not commented.

**11.104.2 Iliad.ILTextElement: adding**

**add: anElement**  
Not commented.

**text: aString**  
Not commented.

### 11.104.3 Iliad.ILTextElement: printing

**printHtmlOn: aStream**  
Not commented.

## 11.105 Iliad.ILTitleElement

Defined in namespace Iliad  
Superclass: Iliad.ILHTMLBuilderElement  
Category: Iliad-Core-XHTMLElements

### 11.105.1 Iliad.ILTitleElement: accessing

**tag** Answer 'title'.

### 11.105.2 Iliad.ILTitleElement: accessing attributes-events

**onEvent: anEvent add: aString**  
Not commented.

## 11.106 Iliad.ILUrl

Defined in namespace Iliad  
Superclass: Object  
Category: Iliad-Core-lib-HTTP

I represent all portions of an URL as described by the RFC 1738. I include scheme, username, password, hostname, port, path, parameters, and fragment.

Portions of this code are based on code of Kazuki Yasumatsu and Paolo Bonzini.

Instance Variables scheme: <String> or nil username: <String> or nil password: <String> or nil hostname: <String> or nil port: <Integer> or nil path: <OrderedCollection> or nil parameters: <Grease.GRSmallDictionary> fragment: <String> or nil

**11.106.1 Iliad.ILUrl class: decoding****decodePercent: aString**

percent decodes the given String

**11.106.2 Iliad.ILUrl class: instance creation****new** Not commented.**11.106.3 Iliad.ILUrl class: parsing****absolute: aString**

Parse aString as an absolute URL.

**absolute: aString relative: aRelativeString**

Take absolute URL aString and combine it with a relative path aRelativeString.

**11.106.4 Iliad.ILUrl: accessing****fragment**

Answer the fragment part of the URL.

**fragment: aString**

Not commented.

**hostname**

Answer the host part of the URL.

**hostname: aString**

Not commented.

**parameters**

Not commented.

**password**

Answer the password part of the URL.

**password: aString**

Not commented.

**path** Answer the path part of the URL.

**path: aCollection**

Set the path part of the URL to aCollection.

**port** Answer the port number part of the URL.

**port: aNumber**

Not commented.

**scheme** Answer the URL's scheme.

**scheme: aString**

we really expect a String here, Old versions (2.7) expected a Symbol you can still pass a Symbol and get away with it but don't expect this behavior to be supported in future versions. #greaseString is the 'correct' way to convert a Symbol to a String since #displayString will add a hash on VW

**username**

Answer the username part of the URL.

**username: aString**

Not commented.

### 11.106.5 Iliad.ILUrl: adding

**addAllToPath: aCollectionOfStrings**

convenience method to add a collection of strings to the path

**addParameter: aString**

Not commented.

**addParameter: keyString value: valueString**

Not commented.

**addToPath: aString**

Not commented.

### 11.106.6 Iliad.ILUrl: basic

**, aString**

Not commented.

**11.106.7 Iliad.ILUrl: comparing**

**= anUrl**  
Not commented.

**hash** Not commented.

**11.106.8 Iliad.ILUrl: converting**

**asString**  
Not commented.

**greaseString**  
Not commented.

**pathString**  
Answer the path converted to a string.

**relativeTo: anUrl**  
Answer a path element collection relative from the receiver to anUrl.

**11.106.9 Iliad.ILUrl: copying**

**postCopy**  
Not commented.

**with: pathString**  
Not commented.

**withParameter: aString**  
Not commented.

**withParameter: aString value: valueString**  
Not commented.

**withoutParameters**  
Not commented.

### 11.106.10 Iliad.Iliad: encoding

**printFragmentOn: aStream encoded: aBoolean**

Not commented.

**printOn: aStream encoded: aBoolean usingHtmlEntities: another-Boolean**

Not commented.

**printParametersOn: aStream encoded: aBoolean usingHtmlEntities: anotherBoolean**

Not commented.

**printPathOn: aStream encoded: aBoolean**

Not commented.

**printServerOn: aStream encoded: aBoolean**

Not commented.

### 11.106.11 Iliad.Iliad: initialization

**initialize**

Not commented.

**initializeFromString: aString**

Not commented.

### 11.106.12 Iliad.Iliad: parsing

**parseFragment: aString**

Not commented.

**parseHost: aString**

Not commented.

**parseParameters: aString**

Not commented.

**parsePath: aString**

Not commented.

**11.106.13 Iliad.ILUrl: printing****printEncodedOn: aStream**

Not commented.

**printOn: aStream**

Not commented.

**printOn: aStream encoded: aBoolean**

Not commented.

**11.106.14 Iliad.ILUrl: removing****removeParameter: aString**

Not commented.

**11.107 Iliad.ILUrlBuilder**

Defined in namespace Iliad

Superclass: Iliad.ILObject

Category: Iliad-Core-Sessions

**11.107.1 Iliad.ILUrlBuilder class: accessing****actionKey**

Not commented.

**addRewriteRule: aBlock**

Not commented.

**ajaxUploadKey**

Not commented.

**hashKey**

Not commented.

**rewriteRules**

Rewrite rules are used to replace patterns in the baseUrl

**sessionKey**

Not commented.

**stateKey**

Not commented.

### 11.107.2 Iliad.ILUrlBuilder class: defaults

**defaultActionKey**

Answer ‘\_action’.

**defaultAjaxUploadKey**

Answer ‘\_ajax\_upload’.

**defaultHashKey**

Answer ‘\_hash’.

**defaultSessionKey**

Answer ‘\_session’.

**defaultStateKey**

Answer ‘\_state’.

### 11.107.3 Iliad.ILUrlBuilder: accessing

**actionKey**

Not commented.

**hashKey**

Not commented.

**rewriteRules**

Not commented.

**sessionKey**

Not commented.

**stateKey**

Not commented.

### 11.107.4 Iliad.ILUrlBuilder: generating

**addDefaultParametersTo: anUrl**

Not commented.

**applyRewriteRulesTo: anUrl**

Not commented.

**baseUrl** Not commented.





```

"Control flow" "Control flow"

```

I can show (display instead of me) other widgets with `#show*` methods or answer to widgets that called me with `#answer`.

When using the javascript layer, call `#markDirty` whenever my state change, so I will be updated on AJAX requests.

Widgets which states depend on me can be automatically rebuilt whenever I am marked as dirty (see `#addDependentWidget`).

```

"Decorators" "Decorators"

```

I can also have decorators that may modify my behavior. A decorator can be added to the decoration chain with `#decorateWith`.

### 11.108.1 Iliad.ILWidget: accessing

#### **dependentWidgets**

Not commented.

**id** Not commented.

#### **id: aString**

Not commented.

**owner** Answer the widget which shows me. if any

#### **owner: aWidget**

Not commented.

**state** Not commented.

#### **stateRegistry**

Not commented.

**widget** Answer the receiver.

#### **widgetFor: aBuildable**

Convenience method. This is useful for building anonymous widgets.  
ex: `myWidget := self widgetFor: [:e | e h1: 'Hello world!']`

### 11.108.2 Iliad.ILWidget: building

#### **buildContents**

Do *\*not\** override this method. Use `#contents` instead

#### **buildHead: aHead**

Not commented.

**contents**

Override this method to add contents to your widget

**fullContents**

Do *\*not\** override this method. Use `#contents` instead

**scripts**

Answer a collection of strings. Override in subclasses to add scripts to load with the widget

**styles**

Answer a collection of strings. Override in subclasses to add styles to load with the widget

**11.108.3 Iliad.ILWidget: control flow****addDependentWidget: aWidget**

Add `<aWidget>` to my dependent widgets. Each dependent widget will be rebuilt on AJAX requests whenever I am rebuilt

**answer**

Give the control back to the owner, i.e, the widget which showed the receiver. Answer `self`

**answer: anAnswer**

Give the control back to the owner, i.e, the widget which showed the receiver. Answer `<anAnswer>`

**append: aWidget**

Insert `<aWidget>` after the receiver

**append: aWidget onAnswer: aBlock**

Insert `<aWidget>` after the receiver

**confirm: aString ifTrue: aBlock**

Not commented.

**confirm: aString ifTrue: aBlock ifFalse: anotherBlock**

Not commented.

**handleAnswer: anAnswer**

Answer `'nil'`.

**inform: aString**

Not commented.

**prepend: aWidget**

Insert `<aWidget>` before the receiver

**prepend: aWidget onAnswer: aBlock**

Insert `<aWidget>` before the receiver

**removeDependentWidget: aWidget**

Not commented.

**retrieveControl**

Give the control back to the receiver, and make any showed widget answer nil

**show: aWidget**

Show another widget instead of the receiver. The receiver is also implicitly marked dirty

**show: aWidget onAnswer: aBlock**

Show another widget instead of the receiver and catch the answer in <aBlock>. The receiver is also implicitly marked dirty

**show: aWidget onAnswer: aBlock delegator: aDelegator**

Not commented.

**11.108.4 Iliad.ILWidget: copying****postCopy**

Not commented.

**11.108.5 Iliad.ILWidget: decorators****decorateWith: aDecorator**

Not commented.

**decorateWith: aDecorator during: aBlock**

Not commented.

**decoratorsDo: aBlock**

Not commented.

**removeDecorator: aDecorator**

Remove <aDecorator> from the decoration chain, except if <aDecorator> is the initial one

**withDecoratorsDo: aBlock**

Not commented.

### 11.108.6 Iliad.ILWidget: defaults

**rootElementClass**

Answer 'ILDivElement'.

### 11.108.7 Iliad.ILWidget: initialization

**initialize**

Not commented.

### 11.108.8 Iliad.ILWidget: printing

**printJsonOn: aStream**

Not commented.

### 11.108.9 Iliad.ILWidget: states

**markDirty**

Mark the receiver as 'dirty', so the widget will be rebuilt on Ajax requests. You do not need to mark subwidgets as dirty, they will be rebuilt together with the receiver

**registerState**

Not commented.

## 11.109 Iliad.ILXmlElement

Defined in namespace Iliad

Superclass: Iliad.ILElement

Category: Iliad-Core-Elements

**11.109.1 Iliad.ILXmlElement: accessing****contentType**

Not commented.

**tag** Answer 'tag'.**tag: aString**

Not commented.

**xmlTag** Not commented.**11.109.2 Iliad.ILXmlElement: converting****respondOn: aResponse**

Not commented.

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