

## Simple Use Case

```
var tree = new YAHOO.widget.TreeView("treeDiv1");
var root = tree.getRoot();
var tmpNode = new YAHOO.widget.TextNode("mylabel",
    root);
tree.render();
```

Places a TreeView Control in the HTML element whose ID attribute is "treeDiv1"; adds one node to the top level of the tree and renders.

## Constructor: YAHOO.widget.TreeView

```
YAHOO.widget.TreeView(str | element target,
    oConfig);
```

Arguments:

- Element id or reference:** HTML ID or element reference for the element into which the Tree's DOM structure will be inserted. If the given element contains a series of nested ordered or unordered lists, they will be used to build the tree.
- Object literal:** an object containing the full tree definition

## Nodes: Text, Menu, HTML, Date

### Node (abstract base class for all others)

```
YAHOO.widget.TextNode(obj | str oData, Node obj
    oParent);
```

Arguments:

- Associated data:** A string containing the node label or an object containing values for any public properties of the node
- Parent node:** The node object of which the new node will be a child; for top-level nodes, the parent is the Tree's root node.

### TextNode (for simple labeled nodes):

If `oData` is a string it will be used as the label. If an object, it should contain a `label` property. If no `oData.href` is provided, clicking on the TextNode's will invoke the node's `expand` method.

### MenuNode (for auto-collapsing node navigation):

MenuNodes are identical to TextNodes in construction and behavior, except that only one MenuNode can be open at any time for a given level of depth.

### HTMLNode (for nodes with customized HTML for labels):

A string containing markup for the node's label or an object containing at least an `html` property

### DateNode (for nodes containing dates):

Same as TextNode, will use Calendar widget for cell editing

## Interesting Moments in TreeView see docs for complete list

Event	Fires...	Arguments
expand	...before a node expands; return false to cancel.	Node obj <i>expanding node</i>
collapse	...before a node collapses; return false to cancel	Node obj <i>collapsing node</i>
clickEvent	...when node is clicked	Node clicked and event
dblClickEvent	... when node is double clicked	Node clicked and event
enterKeyPressed	... when Enter key is pressed when a node has the focus	Node obj with the focus

TreeView events are Custom Events; subscribe to them by name using the following syntax: `tree.subscribe("expand", fn);`

## TreeView object definition

```
var tree = new YAHOO.widget.TreeView("treeDiv1", [
    "label0",
    {type:"text", label: "label1", ... , children: [... ]}, ...
]);
```

Tree definition is an array containing node definitions. If node definition is a string, a TextNode is build. If an object, it should have a `type` property of "text", "menu" or "html" or the full name of a node type (i.e.: "HTMLNode") plus any other properties as would be provided to a Node constructor. Each node can have an optional `children` property with further node definitions.

## TreeView from existing markup

```
<ul><li>List 0
  <ul><li>List 0-0</li>
  ...
</ul></li>
<li><a href="www.elsewhere.com">elsewhere</a></li>
</ul>
```

## Solutions: Dynamically load child nodes:

```
fnLoadData = function(oNode, fnCallback) {
    //create child nodes for oNode
    var tmp = new YAHOO.widget.TextNode("lbl", oNode);
    fnCallback(); //then fire callback
    var tree = new Yahoo.widget.TreeView(targetEl);
    tree.setDynamicLoad(fnLoadData);
    var root = tree.getRoot();
    var node1 = new YAHOO.widget.TextNode("1st", root);
    var node2 = new YAHOO.widget.TextNode("2nd", root);
    node2.isLeaf = true; // leaf node, not dynamic
    tree.render();
};
```

## Dependencies

TreeView requires Yahoo, Dom and Event. Animation is optional; the the Calendar Control may be used for date editing.

## YAHOO.widget.TreeView: Properties

id (str)

## YAHOO.widget.TreeView: Methods

collapseAll()  
 render()  
 expandAll()  
 getNodesByProperty()  
 getRoot()  
 popNode(node) returns detached node, which can then be reinserted  
 removeChildren(node)  
 removeNode(node, b autorefresh)  
 setDynamicLoad(fn)  
 getTreeDefinition()

## YAHOO.widget.Node: Properties

Inherited by Text, Menu, & HTML nodes

data (obj)  
 expanded (b)  
 hasIcon (b)  
 href (str)  
 isLeaf (b)  
 iconMode (i)  
 labelStyle (s) Text/MenuNodes only. Use to style label area, e.g. for custom icons. Use contentStyle property for HTMLNodes  
 nextSibling (node obj)  
 parent (node obj)  
 previousSibling (node obj)  
 target (str)  
 tree (TreeView obj)  
 editable (b)

## YAHOO.widget.Node: Methods

Inherited by Text, Menu, & HTML nodes

appendTo()  
 collapse()  
 collapseAll()  
 expand()  
 expandAll()  
 getEl() returns node's wrapper <div> element  
 getHTML() includes children  
 getNodeHTML() sans children  
 hasChildren()  
 insertBefore()  
 insertAfter()  
 isDynamic()  
 isRoot()  
 setDynamicLoad()  
 toggle()