



TagDirectory

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/**
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```
  USAGE:
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  TagDirectory(pages, tagPrefix, columnCount, listPagesOptions)
    build a multi-column tag directory for a list of pages
```

```
  PARAMETERS:
```

```
  (optional) pages : list/map/str
    list/map of pages to list; if pages is a str, then it is used as
    defaults to list of subpages of current page
```

```
  (optional) tagPrefix : str
    only use tags with given prefix (e.g. 'category:dog'); defaults to ''
```

```
  (optional) columnCount : num
    number of columns to display; defaults to 2
```

```
  (optional) listPagesOptions : map
    options passed into the ListPages template for listing each column
    defaults to { sort: 'viewcount', reverse: true, style: 'bullets' }
```

```
  ***/
```

```
var pages = $0 ?? $pages ?? page.subpages;
if(pages is str) let pages = wiki.getpage(pages).subpages;
if(pages is map) let pages = map.values(pages);
var tagprefix = $1 ?? $tagprefix;
var columns = num.max($2 ?? $columnCount ?? 2, 1);
var listPagesOptions = { sort: 'viewcount', reverse: true, style: 'bullets' }
```

```
// build map of all tags in pages
```

```
var tagmap = { };
foreach(var p in pages) {
  var tags = p.tags;
```

```
  // check if page has no tags; if so make up a default list
```

```
  if(!#tags) {
    let tags = [ { name: (tagprefix ? tagprefix .. ':' : '') .. '(un
  }
}
```

```

// for each tag on the page, append the page to that tag's list
foreach(var t in tags where t.type == 'text') {

    // check if either the tag prefix matches or there is no tag pre
    var parts = string.split(t.name, ':', 2);
    if(tagprefix && (#parts == 2) && (string.compare(parts[0], tagpre
        let tagmap .= { (parts[1]) : tagmap[parts[1]] .. [ p ] };
    } else if(!tagprefix && (#parts == 1)) {
        let tagmap .= { (parts[0]) : tagmap[parts[0]] .. [ p ] };
    }
}
}

if(#tagmap) {

    // count how many pages each tag has
    var tag_count = [ { tag: tag, count: #tagmap[tag] } foreach var tag :

    // balance columns so that their heights are as equal as possible
    var column_tags = list.new(columns, [ ]);
    var column_sums = list.new(columns, 0);

    foreach(var t in list.sort(tag_count, 'count', true)) {

        // find shortest column
        var column = list.indexOf(column_sums, list.min(column_sums));

        // update column
        let column_tags = list.splice(column_tags, column) .. [ column_t
        let column_sums = list.splice(column_sums, column) .. [ column_s

    }

    // emit the table with N columns
    <table width="100%" cellspacing="0" cellpadding="5" border="0" style=
        <tr valign="top">

        // loop over each column
        foreach(var column in column_tags) {
            <td style="padding-right: 20px;">

                // loop over all tags in column, sorted alphabetical
                foreach(var tag in list.sort(column)) {
                    <h5> string.tocamelcase(tag) </h5>
                    template("MindTouch/Controls/ListPages", listPage
                }
            }
        }
    }
}

```

```
        </td>
      }
    </tr>
  </table>
}
```