

# Workspaces

**Note:** A new feature called [Workspace UI](#) makes the creation of Workspaces easier since Tiki10

One of the frequently requested information about workspaces is where the *workspace* checkbox can be found. You can use them without an easy User Interface, or take profit of the easy-to-use **Workspaces User Interface** ("Workspaces UI") that you can enable here:

Admin home (Control Panels) > Workspaces & Areas (tiki-admin.php?page=workspace) > **Workspaces UI**

All the components are in place and are ready to be used, with or without UI. However, some consideration must be placed on how to assemble them for **your** particular use case if you don't use the Workspaces UI.

For maximum control and for experienced powerusers/developers, you can create workspaces by hand (without an easy-to-use UI) following the indications below in this page

## Hand-made workspaces

The cycle to complete workspaces is in multiple steps:

1. Experiment by building hand-made workspaces
2. Automate the creation process through [Data Channels](#)
3. Distribute learning through [Profiles](#)
4. Go to 1

The workspaces are composed of very simple components in Tiki. Primarily [Categories](#), [Groups](#) and optionally [Perspectives](#). By creating a category and several groups, one can create a workspace with specialized roles. Simply by placing the wiki pages or other objects in the category, the workspace's content will be made accessible based on the rules set for the workspace, provided that you ensure that there are no object permissions there which might overrule those workspace (category) permissions if you don't want to.

Perspectives will modify certain aspects of the Tiki instance to make the workspace more visual. Below is a summary of the steps involved. For a more detailed tutorials, see: [Tutorial: Manually creating a Workspace](#).

1. Create a category (write down the ID)
2. Create several roles for the workspace, and one group for each role.
3. Modify the permissions on the category so the newly created roles (groups) have privileged access
4. Add users to those groups
5. Create a new perspective
6. Edit and add the *Category Jail* preference to the perspective and enter the category ID in it (you can search for "jail" and then drag and drop the result above to the Configurations area - needs JQuery UI feature enabled)
7. Modify the permissions on the perspective so that the groups can view it
8. Add the [perspective module](#)

Already, you have a basic workspace in place.

Play with it

Switch to the perspective using the module. Because of the category jail, if you go to list pages, you won't see any pages. They are automatically filtered out so you can focus on your project.

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When you attempt to create a new wiki page, the category will automatically be selected. (This may require some permissions to assign categories to objects and add objects to a category)

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Switching out of the perspective will make everything visible again.

Progressive improvements can be made to the workspace. By changing more preferences on the perspective, the experience can be adapted. Consider changing the site's title or the theme option to make it clear when you are in a perspective.

## Create a dashboard

The category jail affects how you view the content inside Tiki. The listing inside modules will be altered. Go a step further and change the home page of the perspective to a dashboard so members can quickly see what is going on when they begin working on the project.

1. Create a new wiki page (like *My First Workspace Dashboard*)
2. Add a workspace-aware plugin to it, like the [category plugin](#) to display the elements of the workspace
3. Change the wiki home page inside the perspective

You can also add the [PluginMemberList](#) to allow user management from the dashboard for the administrator of the workspace (permissions required) or simply to let members view who else is working with them.

As you create multiple workspaces manually, patterns will emerge. All those steps are tedious and some steps require higher privileges that most site administrators would like to grant to too many people. This is where automation comes into play.

## Automation through Data Channels

If you need to create workspaces often for various projects, going through the manual steps every time may take a long time. Setting the permissions correctly on all objects for all groups will quickly become tedious. There are multiple error opportunities that could cost many hours.

Data channels allow to automate the process and convert workspace creation to a single step. However, some time must be invested to create the workspace template that will be used to initialize workspaces and serve as a starting point. The workspace can then be customized as needed using typical Tiki features.

Data channels use the same syntax as profiles for their definition. Extensive reference documentation can be found on [the profiles' site](#). They are stored in wiki pages, so complete history is provided to allow more collaboration. However, when executed, data channels have extensive rights, so limiting access to trusted users is a must.

When starting out, it's better to test on a separate installation to avoid excessive amounts of test data from being generated.

1. Create a new category to contain your workspace template and make sure only trusted users have edit rights
2. Create a *WorkspaceTemplate* page and put it in your new category
3. Register the page as a data channel in the profiles administration page, under the *Advanced* tab. The line should look like this:
  - workspace\_template, tiki://local, **WorkspaceTemplate, Admins**
  - The line indicates that a channel named **workspace\_template** can be executed by members of the group **Admins** and uses the page **WorkspaceTemplate** as the definition locally.
4. Create an interface to call the data channel using a wiki plugin. It can be on any page of your choosing. See *Code Block #1*. The plugin will display a form with a workspace name field. When called, the data channel will be provided with that name as an argument.
5. Modify your *WorkspaceTemplate* page to contain the workspace definition. A basic definition containing the creation of a category and a perspective can be seen in *Code Block #2*. A second part containing group definitions can be seen in *Code Block #3*.

### Organizing the workspace template

Profile definitions can be cryptic. However, only the code blocks are evaluated and there can be multiple blocks in the page.

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Use the space in-between to describe what they do and what the objectives are.

#### Code Block #1: Data channel interface

```
{DATACHANNEL(channel=workspace_template)} workspace_name,Workspace Name {DATACHANNEL}
```

You can add additional fields by adding more rows in the plugin. The format is very simple: value name inside the data channel followed by the label to display on screen.

#### Code Block #2: Perspective and category

```
{CODE(caption=>YAML)} objects: - type: category ref: workspace_root data: name: Workspace
$profilerequest:workspace_name$Unknown$ - type: perspective ref: workspace_perspective data: name: Workspace
$profilerequest:workspace_name$Unknown$ preferences: category_jail: $workspace_root {CODE}
```

The above may seem a little confusing at first, but the format is regular enough when you are used to it. First, one must notice that two objects are created. One of type **category** and the other of type **perspective**. The *ref* argument below the type indicates a name that will be used to reference to the object elsewhere in the template. The type indicates how the data block will be processed. The values that can be provided are specified as part of the developer documentation page, under [Category Handler](#) and [Perspective Handler](#).

Both names contain a strange structure: **\$profilerequest:workspace\_name\$Unknown\$**. This will be replaced by the name provided in the data channel form. If **Test** is entered as the workspace name, both the category and the perspective will be named **Workspace Test**.

The perspective also contains the preferences that will be used. In this case, only the **category\_jail** preference is set. The preference names are those used internally by Tiki. Some research may be required to find those. The value is set to **\$workspace\_root**, which is the name given to the category. It will be replaced by the ID of the freshly created category.

Test it out

Without the groups of the following section, you can run the data channel and generate perspectives and category. As an exercise, try the following:

- Change the site title as part of the perspective
- Change the theme
- Place the workspace categories under a common category

### Code Block #3: Creating groups

```
{CODE(caption=>YAML)} mappings: Member: $profilerequest:workspace_name$Unknown$ Member Lead:
$profilerequest:workspace_name$Unknown$ Lead groups: Member: autojoin: y objects: - type: category id: $workspace_root
allow: - view - edit - view_category - add_object - modify_object_categories - type: perspective id: $workspace_perspective
allow: [ perspective_view ] Lead: autojoin: y objects: - type: category id: $workspace_root allow: - rollback - remove_object -
type: group id: Member allow: - group_view - group_view_members - group_add_member - group_remove_member {CODE}
```

The initial section defines mappings. Using a syntax explained earlier, the profile will create groups named **Workspace Lead** and **Workspace Member**. Lead and Member are used as shorthands for the remaining of the definition.

The groups section provides more information along with the privileges they grant. The *autojoin* flag indicates that the user triggering the data channel will automatically become a member of the group. Here, privileges are not granted globally. Instead, they are defined for the category and perspective.

- Members can view and edit wiki pages in the category, add objects to it and modify the categories on objects. However, they will not be able to remove objects from the workspace.
- Leaders can rollback changes and remove objects from the workspace
- Leaders can view the member group and manage the users in it.

Test it out

With those groups, you create a minimal workspace with enough permissions to make it usable. Try to go further.

- Let members view each other
- Grant permissions on different object types
- Create other groups for the workspace
- Add a dashboard

A more complete template example can be found as part of the [Project Management Profile](#).

# Distributing knowledge

Not all contexts will require the same kind of workspaces. However, many of them are bound to have similarities. Once the workspace set-up has been running for a while, it is recommended to share the set-up with others. Ideally, communities will form around a given use-case. Like most configurations, the workspace set-up can be distributed using profiles.

A workspace profile is essentially a normal profile, but will require to copy the template verbatim and create the data channel. The repository will need to contain at least two pages: one for the profile definition and one containing the template. The template page can be an exact copy of the page currently used as a template. If the template uses external dependencies, those must also be provided by the profile.

## About Profiles

Profiles are Tiki's configuration distribution system. The configuration scripts are stored in a wiki, also running Tiki, referred to as the repository. The primary repository is [profiles.tikiwiki.org](http://profiles.tikiwiki.org), but any installation can be used by applying the [Profile Repository Profile](#).

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Profiles can be applied from the admin panels.

### Data channel registration - MyWorkspaces

```
{CODE(caption=>YAML)} objects: - type: wiki_page ref: workspace_template data: name: workspace_template content: wikidirect:MyWorkspaces_template - type: datachannel data: name: workspace_template profile: $workspace_template groups: [ Admins ] {CODE}
```

In the above, a wiki page is first created. The page name will be *workspace\_template* and the content will be taken from the page *MyWorkspaces\_template* on the repository. Unlike *wikicontent:*, *wikidirect:* will not resolve references, which is required to load a profile template.

The datachannel is then registered and granted to the *Admins* group.

Additionally, you can add the perspective switching module automatically.

### Module switcher - MyWorkspaces

```
objects: - type: module ref: switcher data: name: perspective position: right order: 10 groups: [ Registered ]
```

# Historic notes

Starting in [Tiki4](#) and continued in [Tiki5](#), massive improvements to existing features like [Categories](#), [Permissions](#), [Groups](#), etc and the addition of some new concepts, like [Perspectives](#) and [Organic Groups](#) permit to generate workspaces. All these features are in the core.

This permits to make smaller spaces within a Tiki instance, where [Preferences](#) can be overridden and [permissions](#) can be different.

Workspaces will help with [Social Networking](#), [Project Management](#) and [Customer Relationship Management](#), which are [use cases](#) & [profiles](#) in addition to features.

For more details, please see: [Workspace](#)

This is different than a previous effort [AulaWiki](#), which is available as a [mods](#) (additional code).

# Simple explanation

See here: [Simple explanation of perspectives categories category jail etc.](#)

and the following conversation

## FAQ-alike IRC conversation (helpful to understand)

**Following an excerpt of an IRC conversation between mikebeary and nkoth, that the both guys allowed to use for the documentation:**

**mikebeary**

can someone please give me a **general idea of how workspaces are different than perspectives**? I'm having trouble finding a concise definition

**nkoth**

a workspace is a use case - there is technically **not really a workspace feature**. Perspectives, combined with other features such as category jailroots are the features that enable create workspaces

**mikebeary**

so its a general term that just describes the work area a person is in based on what they've clicked on, who they are, etc.? As opposed to a separate page or something?

**nkoth**

yes, workspaces is a rather general term describing a work area that could consist of a certain way it looks, certain permissions that exist in that state, and things presented, etc..

**mikebeary**

I want to create a wiki that begins with a site for all the colleges in a Missouri, from which you select your college, and then select your campus and then your club. Would each of the different colleges just have their own workspace and then each campus would have their own workspace, etc? as opposed to making a totally separate page? I'm guessing perspectives and jailroot features would bring them to their workspace based on them selecting their college or their campus?

**nkoth**

possibly , but you have to consider what is your reason for dividing up the wiki into multiple workspaces to begin with.

Is it to prevent one person from seeing the other group's things?

Is it to present a different screen layout?

Is it to limit the amount of things a person is seeing while in a particular workspace so that he is not information overloaded but he can still switch between workspaces?

**mikebeary**

not to limit, but just so that each level can have their own calendar, their own forums, their own file galleries, etc.

**nkoth**

Sounds like you need to create some categories some perspectives and then configure each of the different perspectives to have different jailroot

each perspective would have also its own different home page so that when you switch to it (the perspective), the user sees that home page

**mikebeary**

ok

**nkoth**

and while they are in that perspective they are exposed only to things in the category jail root of that perspective

**mikebeary**

really, it'd be the same .php file, but a different theme kind of thing?

**nkoth**

basically tiki has a lot of preferences right?

**mikebeary**

yes

**nkoth**

for each perspective you can have a different "setup" of preferences

**mikebeary**

ok

**nkoth**

so the possibilities are really up to your imagination the UI is at `tiki-edit_perspective.php`  
you search for a pref, drag it into the perspective and configure it (basically overriding the global value) for that specific perspective

**mikebeary**

So say for instance I go to Missouri's website. I'd be at the `tiki-index.php`. Then I'd select my local college. Are you saying at that point, I could be at my college's "site" but without ever leaving `tiki-index.php`? I'd just be changing everything based on jailroot and persepective settings?

**nkoth**

right  
the link to switch perspectives is `tiki-switch_perspective.php?perspective=3` to switch to perspective 3  
So that could very well be how you "goto" to the college's "site" which is perspective 3

**mikebeary**

And essentially what I've done by selecting my college's "site" is to select a different workspace

**nkoth**

technically speaking, you switch to a different perspective which yeah I suppose it sounds synonymous with workspaces, but the point is that a perspective could be used for something as simple as say, having a different page header **and not necessarily to the extent of creating workspaces** which is what you are doing.

**mikebeary**

ok, that makes sense.

**mikebeary**

and what exactly is a jailroot

**nkoth**

it is a pref (and so you can configure it globally or for any specific perspective)  
Basically it is a list of category IDs . If you set it to e..g 2, 3, and 5, then users can only see/search for/are exposed to items that are in categories 2, 3, and 5

**mikebeary**

so kind of like bulk-processing for perspectives? So you don't have to change a whole lot of perspectives to achieve what you can with categories?

**nkoth**

not exactly.  
well, the point is that categories are just that, you put things in them and you can set permission for them by setting a category jailroot for a perspective, say the college's perspective  
you are basically saying that "while a user is in the college's 'site' he is exposed only to things inside those categories specified in that jailroot  
it could just be one category, or it could be many categories - it's up to you

**nkoth**

if you could perhaps cut and paste this conversation into the wiki page where you expected this info to be in the first place on `doc.tiki.org`, it could be useful for now, until you have developed more fancy documentation liek that youtube video you talked about

**mikebeary**

Ok, I will definitely do that.

**Related**

- [Workspaces UI](#)

**Alias names for this page**

[workspaces](#) | [WS](#) | [Category Jail](#) | [CategoryJail](#) | [Jail](#)