

# Joomla! 1.6

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# Joomla 1.6 Recap

- Previously on Joomla 1.6:  
<http://www.vimeo.com/5516584>
- Joomla 1.6 will not install on less than:
  - ▶ PHP 5.2+
  - ▶ MySQL 5.0.4+
- No legacy mode.

- Nested categories (but no multi-map)
- Consistent functionality and UI
  - ▶ Save and New; Save as Copy
  - ▶ Integrated trash
- Template styles
  - ▶ Linked to menu page
- Exclude modules from menu page
- Three new frontend templates

# The Art of Access Control

- Define your own user groups.
- Define your own content access levels.
- Multi-level permission management.



## User Manager: Groups



New



Edit



Delete



Options



Help

Users

Groups

Levels

Search Users:

Submit

Reset

<input type="checkbox"/>	Group Title	Users in group	ID
<input type="checkbox"/>	Public		1
<input type="checkbox"/>	Registered		2
<input type="checkbox"/>	Administrator	1	7
<input type="checkbox"/>	Manager	1	6
<input type="checkbox"/>	Park Rangers		9
<input type="checkbox"/>	Publisher		5
<input type="checkbox"/>	Editor		4
<input type="checkbox"/>	Author		3
<input type="checkbox"/>	Super Users	1	8

Display # 20

# View Access Levels

- Same format within content (select from list).
- Able to add your own.
- Linked to groups.



## User Manager: Access Levels



New



Edit



Delete



Options



Help

Users

Groups

Levels

Search Users:

Submit

Reset

<input type="checkbox"/>	Level Name		
<input type="checkbox"/>	Public		
<input type="checkbox"/>	Registered		
<input type="checkbox"/>	Special		
<input type="checkbox"/>	Confidential		

Display # 20



## User Manager: Edit Access Level



### Level Details

Level Title

### User Groups Having Access

- Public
- Registered
- Administrator
- Manager
- Park Rangers
- Publisher
- Editor
- Author
- Super Users

# Multi-Level Permission Management

- Four levels of management
  - ▶ Global Configuration
  - ▶ Component Options
  - ▶ Category
  - ▶ Articles

# Four Easy Rules

- By default you can't do anything ...
  - ▶ Implicit deny.
- Until you can allow actions ...
  - ▶ Explicit allow.
- Or deny them ...
  - ▶ Explicit deny.
- and deny always wins forever after!

# Inheritance: Case 1

- Global: **Unset** (Deny)
  - ▶ Component: **Inherit** (Deny)
    - ▶ Category: **Inherit** (Deny)
      - ▶ Article: **Inherit** (Deny)
- All levels inherit the implied deny.

# Inheritance: Case 2

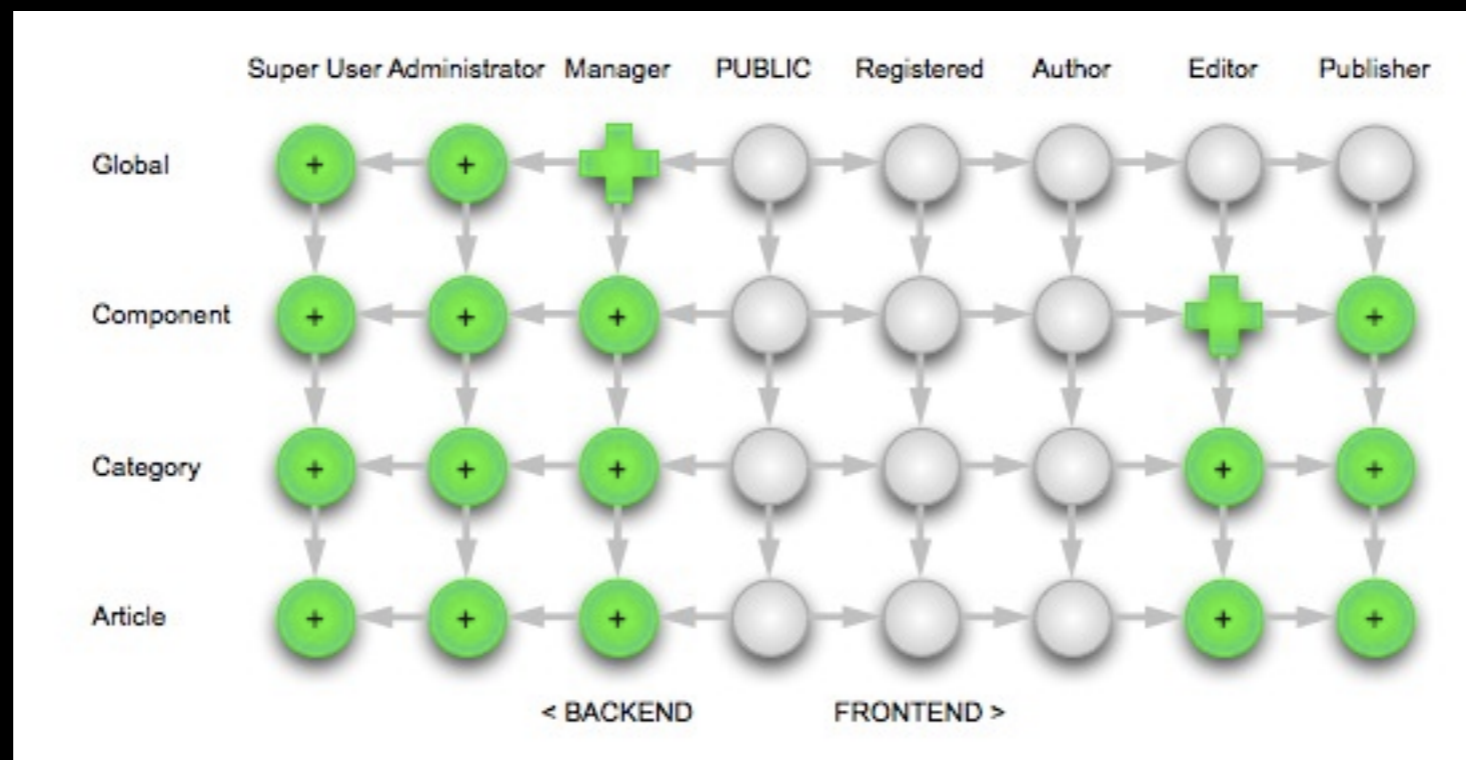
- Global: **Allow**
  - ▶ Component: **Inherit (Allow)**
    - ▶ Category: **Inherit (Allow)**
      - ▶ Article: **Inherit (Allow)**
- All levels inherit allow.

# Inheritance: Case 3

- Global: **Unset (Deny)**
  - ▶ Component: **Allow**
    - ▶ Category: **Deny**
      - ▶ Article: **Allow (Deny)**
- Globally denied (not allowed in the global context).
- Component is explicitly allowed.
- Category is explicitly denied.
- Article is denied regardless of the setting.

# User Group Inheritance

- User groups form sets of permissions.
- Made up of the group and all parents.
- Any deny rule in any group will win!

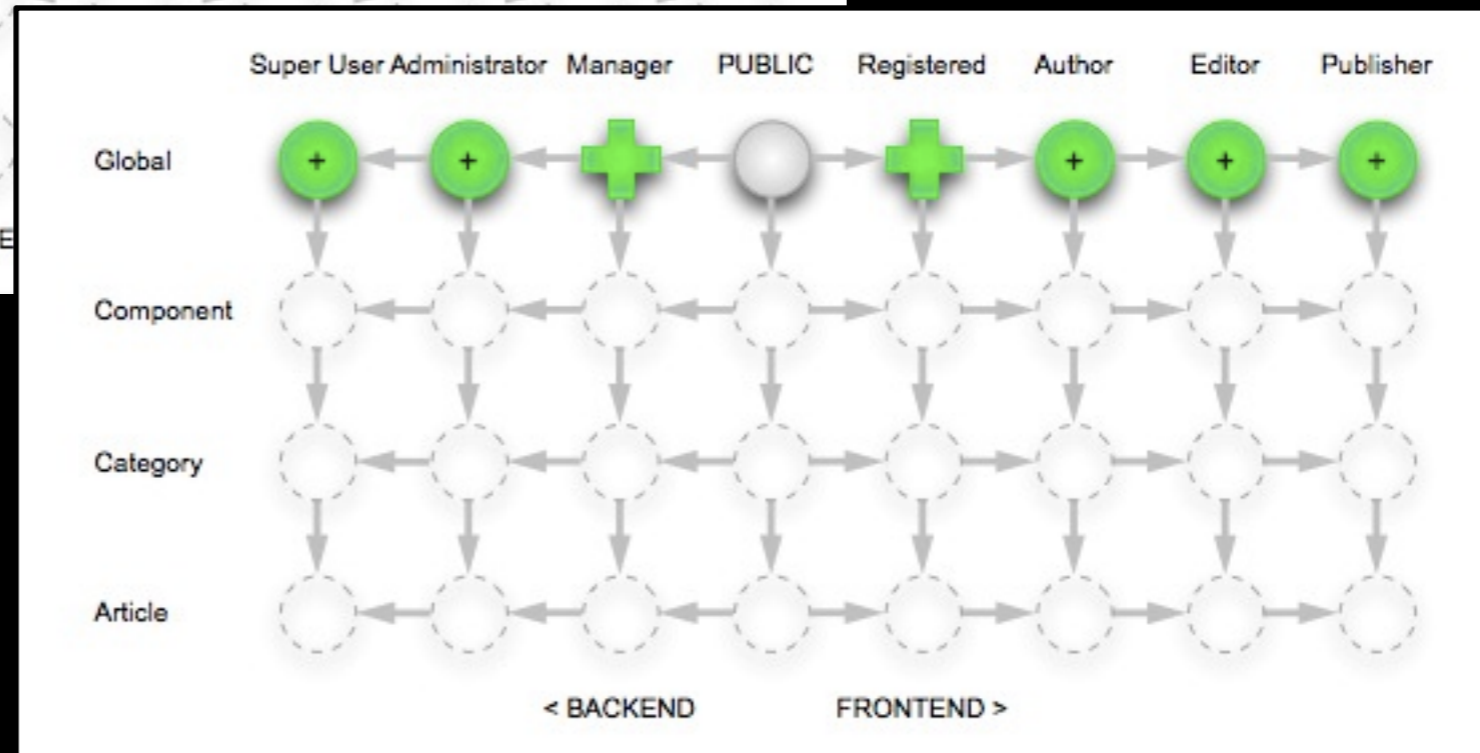
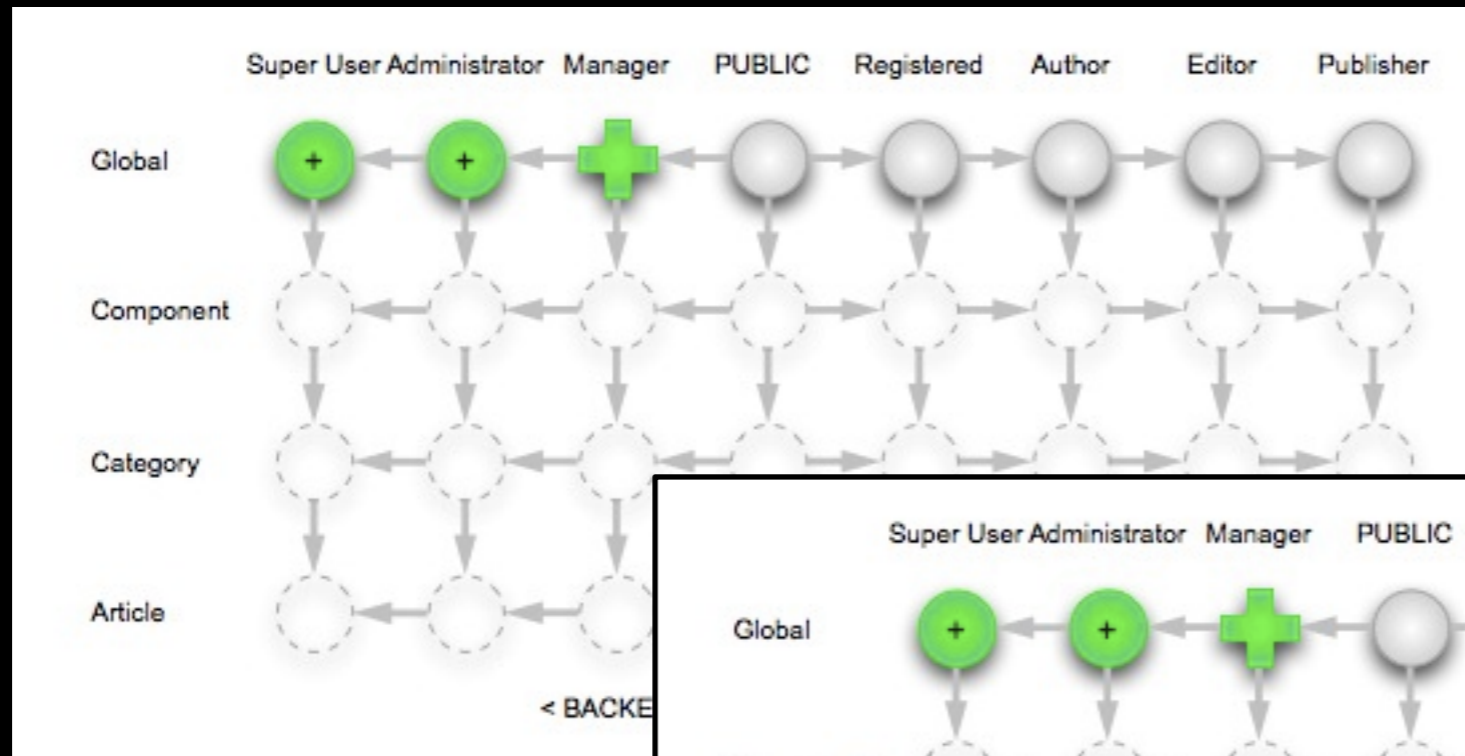


# Eight Basic Permissions

- Permissions tied to user groups.
  - ▶ Admin
  - ▶ Site Login
  - ▶ Admin Login
  - ▶ Manage
  - ▶ Create
  - ▶ Delete
  - ▶ Edit
  - ▶ Edit State

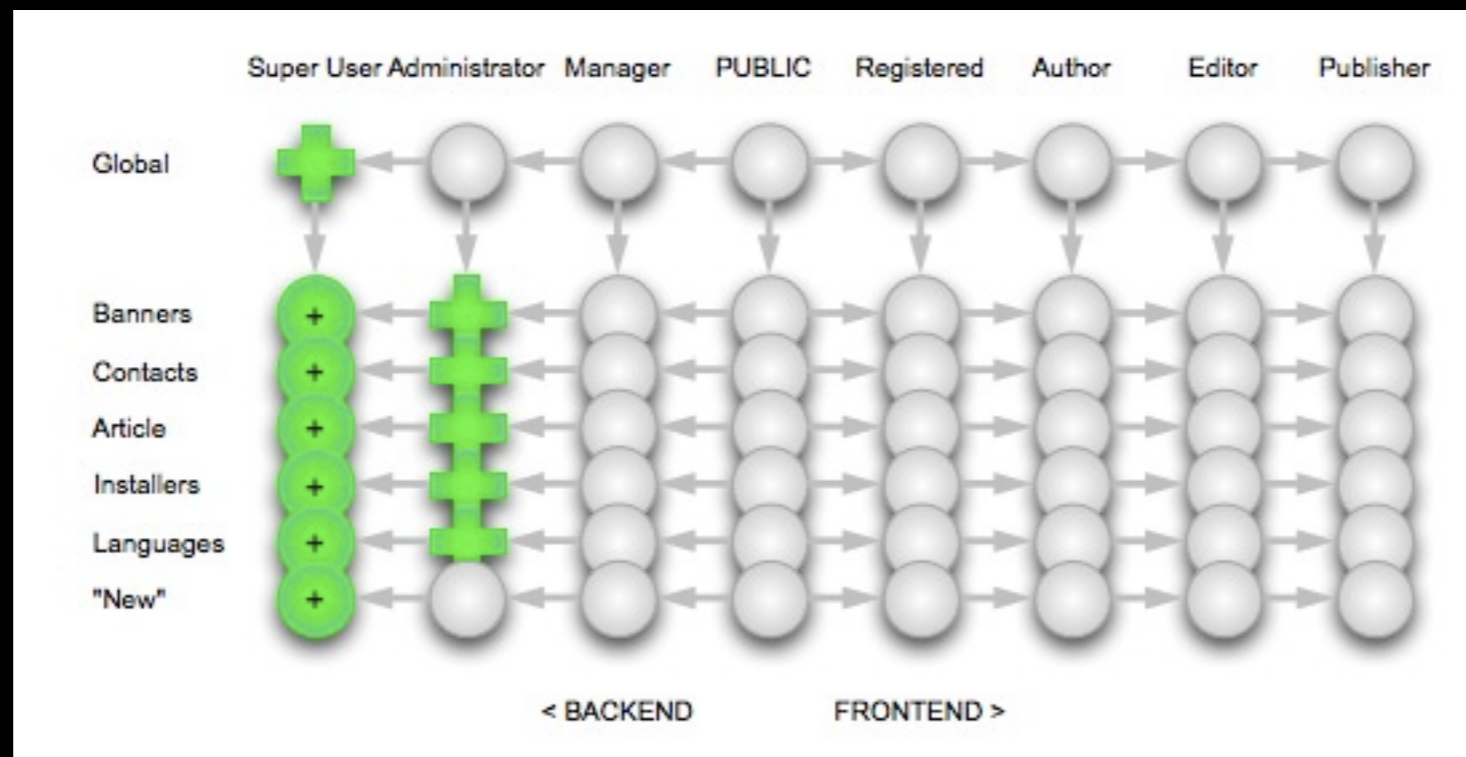
# The Login Permissions

- Global: Can login to site or administrator.



# The Admin Permission

- Global: Can do anything (a super user).
- Component: Can edit component options controls.



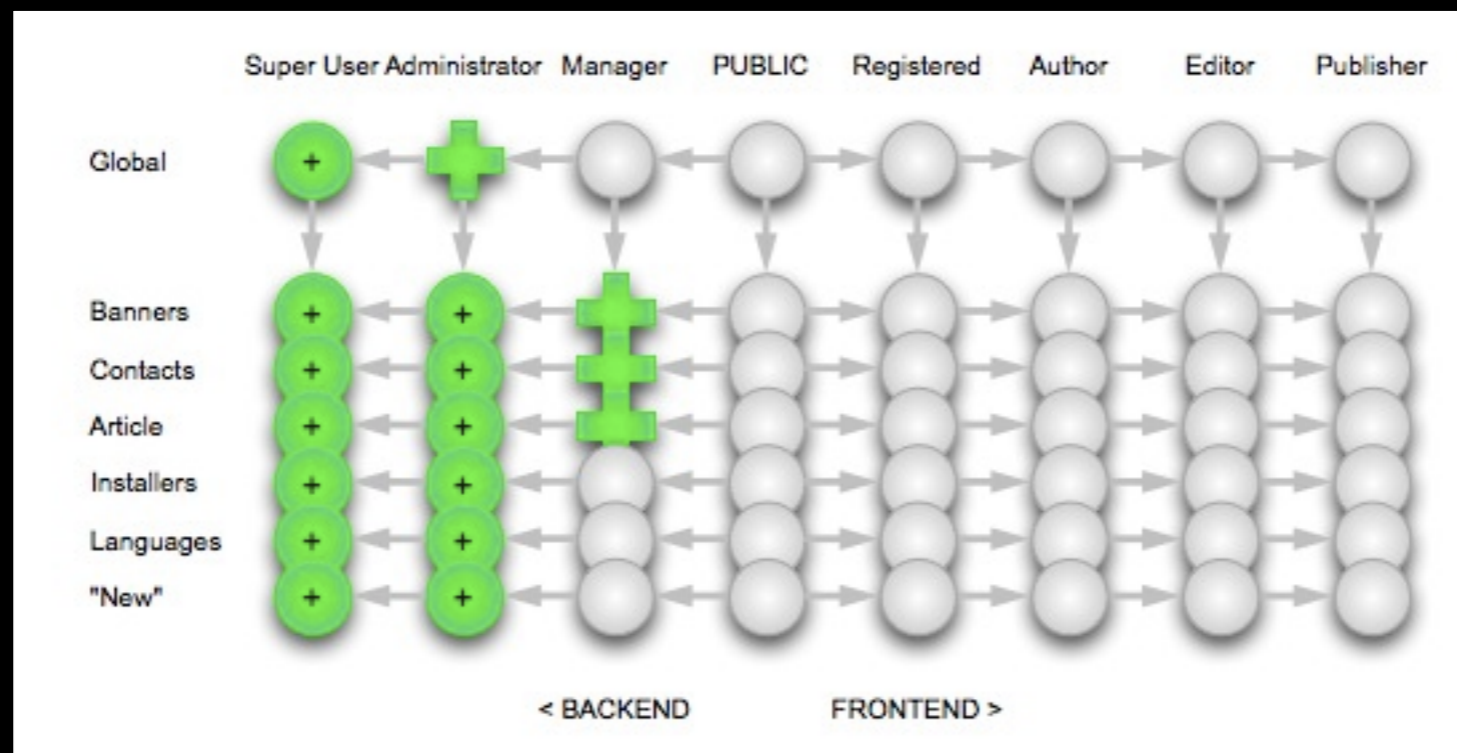
The Admin action has two levels.

In Global Configuration this action allows you to perform any action regardless of the allow or deny settings. It allows for the creation of Super Users.

In a component, this gives the users in the group access to change the component options or other higher functions that the component may offer.

# The Manage Permission

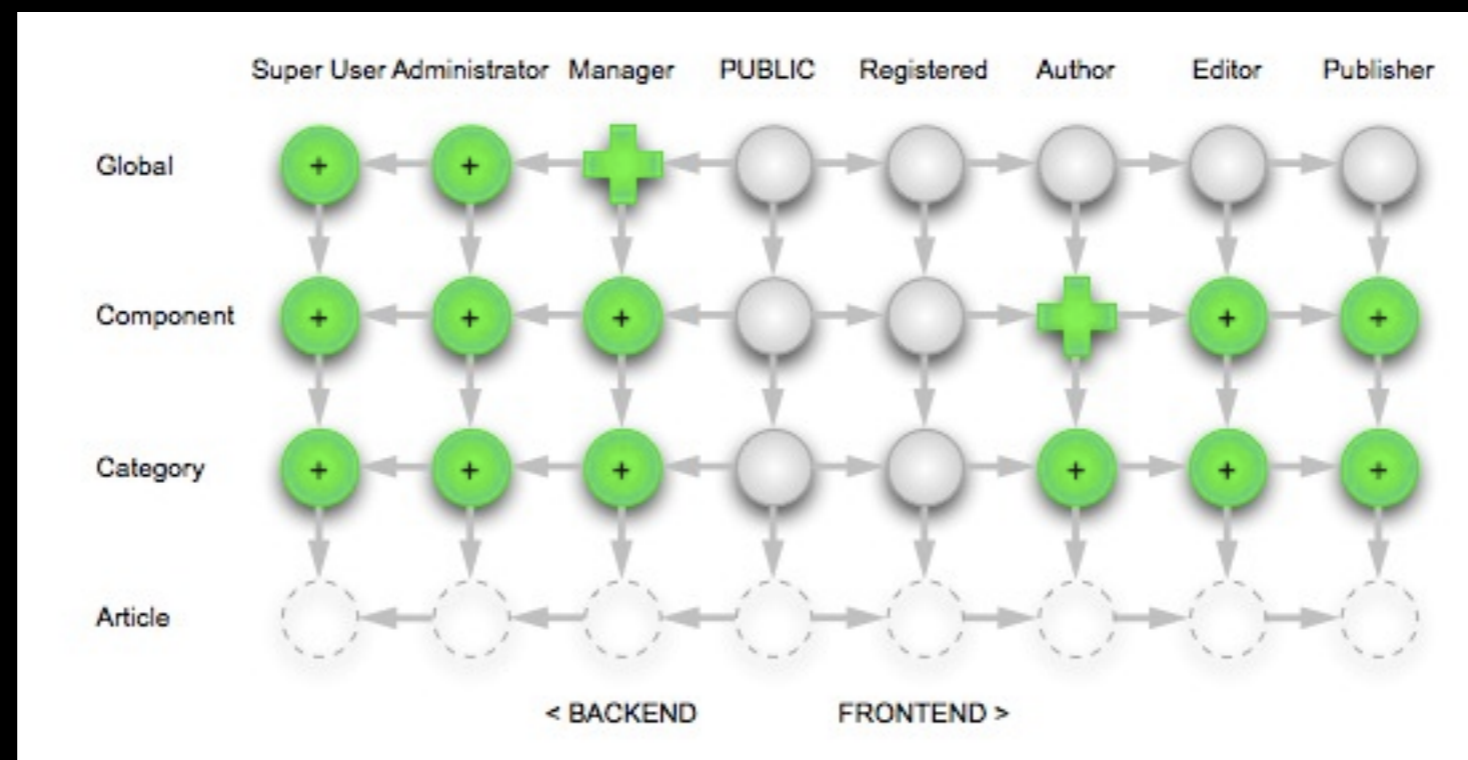
- Global: Grants access to the administrator.
  - ▶ Component: Grants access to the component.
- Must explicitly allow manage access to components in their options panels.



Manage in the global context grants you access to the backend Administrator (in conjunction with Login). It may also give you access to higher admin functions for frontend components (possibly control panels, toolbars, etc, will have to see). At the component level, it grants access to the component. For administrator groups you should arrange the groups from the most powerful to the least powerful with regard to this action.

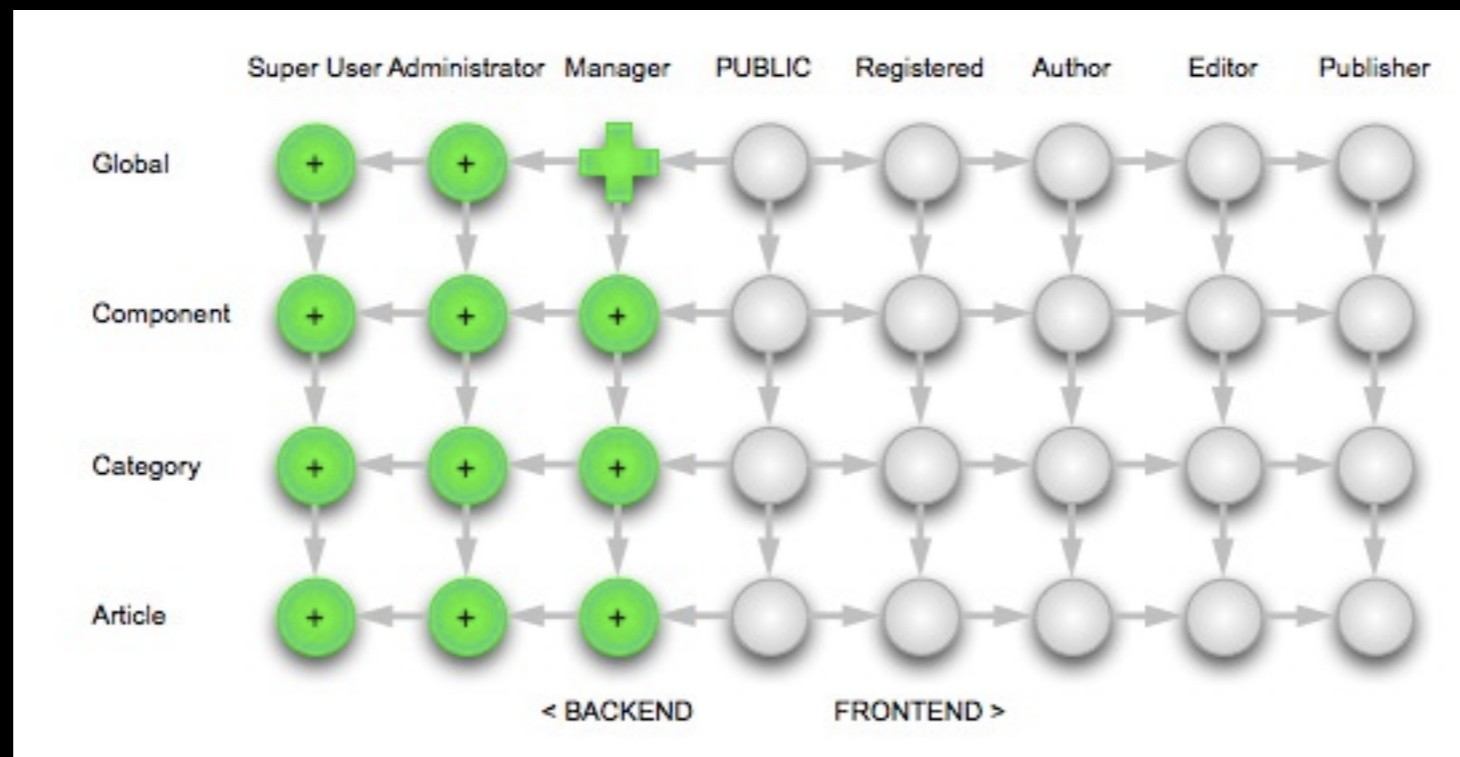
# Create Permission

- Global: Create any content in any component.
  - ▶ Component: Create any content in this component.
  - ▶ Category: Create sub-categories and content in this category.



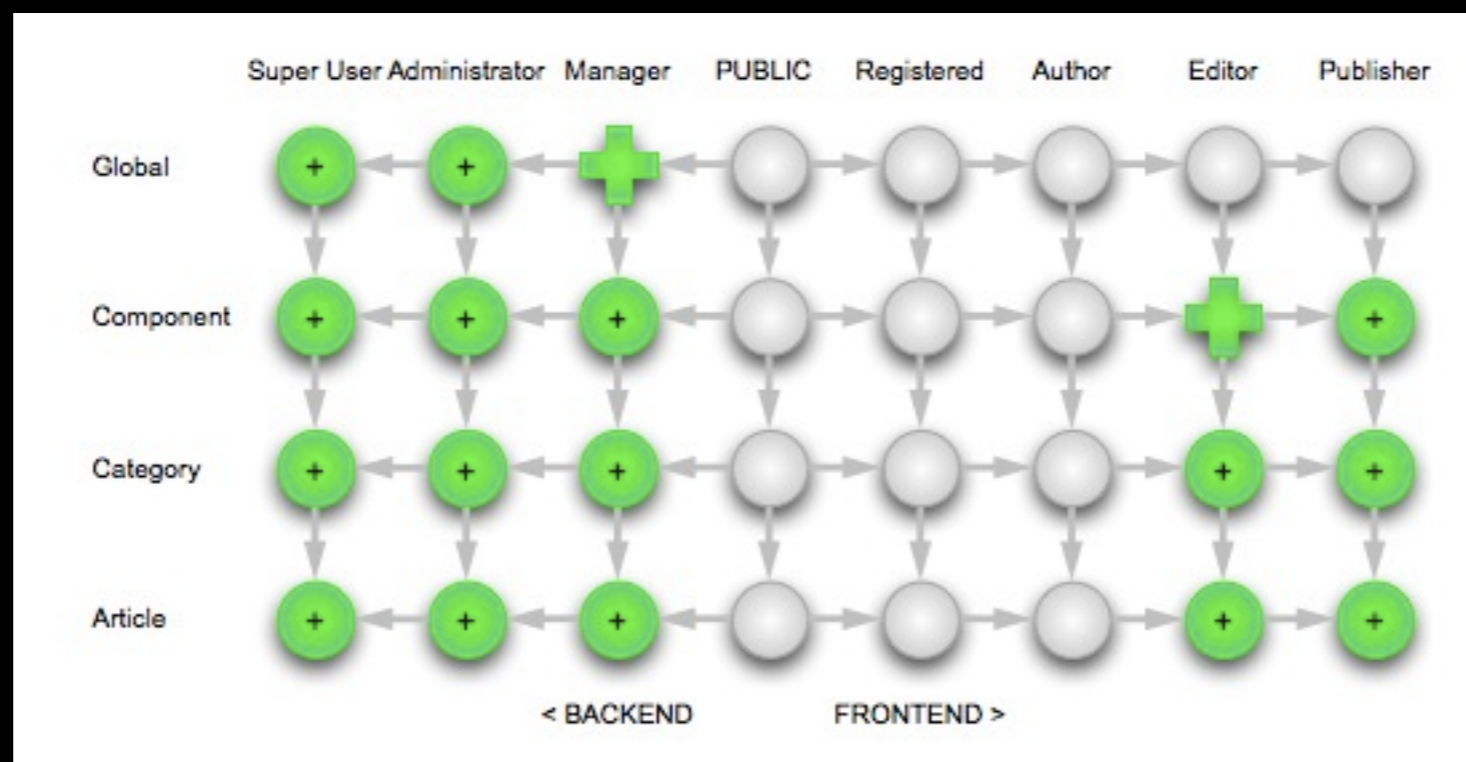
# Delete Permission

- Global: Delete any content in any component.
  - ▶ Component: Delete any content in this component.
  - ▶ Category: Delete this category, sub-categories and content in this category.
  - ▶ Article: Delete this article.



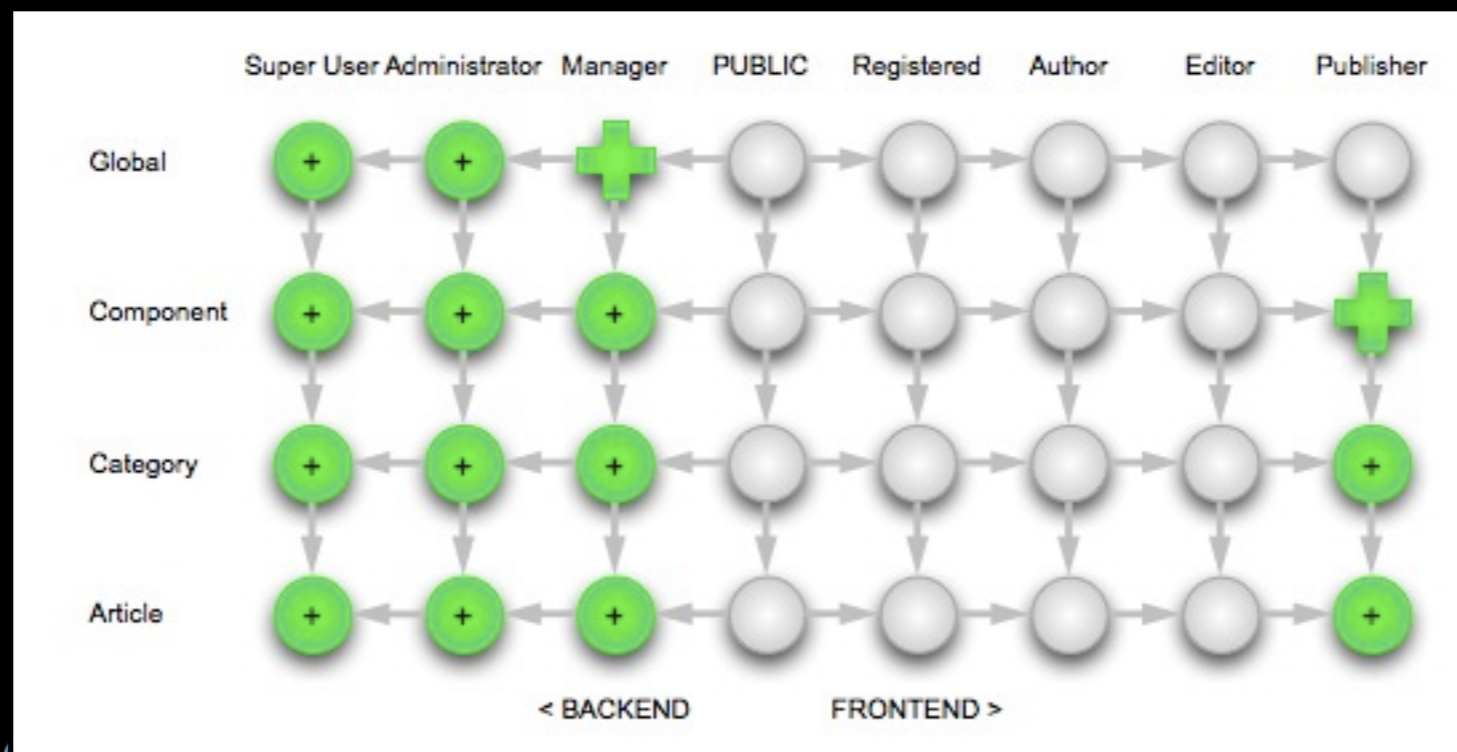
# Edit Permission

- Global: Edit any content in any component.
  - ▶ Component: Edit any content in this component.
    - ▶ Category: Edit this category, sub-categories and content in this category.
      - ▶ Article: Edit this article.



# Edit State Permission

- State refers to publishing, trashing, ordering, etc.
- Global: Edit state of any content in any component.
  - ▶ Component: Edit state of any content in this component.
  - ▶ Category: Edit state of this category, sub-categories and content in this category.
  - ▶ Article: Edit state of this article.





# Global Configuration



Site | System | Server | **Permissions**

## Permission Settings

Set global permissions for actions and groups here.

User Group	Admin	Login	Manage	Create	Delete	Edit	Edit State
Public	...	...	...	...	...	...	...
Registered	...	Allow	...	...	...	...	...
Administrator	...	...	Allow	Allow	Allow	Allow	Allow
Manager	...	...	...	...	...	...	...
Park Rangers	...	...	...	...	...	...	...
Publisher	...	...	...	...	...	...	...
Editor	...	...	...	...	...	...	...
Author	...	...	...	...	...	...	...
Super Users	Allow	...	...	...	...	...	...

User Group	Admin	Login	Manage	Create
Public	...	...	...	...
Registered	...	Allow	...	...
Administrator	...	...	Allow	Allow
Manager	...	...	...	...
Park Rangers	...	...	...	...
Publisher	...	...	...	...
Editor	...	...	...	...
Author	...	...	...	...
Super Users	Allow	...	...	...



## Article Manager: Articles



New



Edit



Publish



Unpublish



Archive



Trash



Options



Help

Articles

Categories

Featured

Filter::

Search

Clear

- Select Access -

- Select State -

- Select Category -

<input type="checkbox"/>	Title ▲	Published	Featured	Category	Created by	Ordering	Access	Date	Hits	ID
<input type="checkbox"/>	<b>Cradle Mountain-Lake St Clair National Park</b> (Alias: cradle-mountain-lake-st-clair-national-park)	✓	⊘	Tasmania	Super User	▼ 0	Public	2009.06.22	0	3
<input type="checkbox"/>	<b>Great Barrier Reef</b> (Alias: great-barrier-reef)	✓	⊘	Queensland	Super User	▲ ▼ 1	Public	2009.06.22	0	2
<input type="checkbox"/>	<b>Welcome to Joomla!</b> (Alias: welcome-to-joomla)	✓	✓		Super User	▲ 1	Public	2008.08.12	102	1

Display # 20

## Article Manager Configuration

Save

Cancel

Articles

Categories &amp; Featured

Integration

Text Filters

Permissions

Default permissions used for all content in this component.

## Permissions

User Group	Admin	Manage	Create	Delete	Edit	Edit State
Public	Inherit	Inherit	Inherit	Inherit	Inherit	Inherit
Registered	Inherit	Inherit	Inherit	Inherit	Inherit	Inherit
Administrator	Allow	Inherit	Inherit	Inherit	Inherit	Inherit
Manager	Deny	Inherit	Inherit	Inherit	Inherit	Inherit
Park Rangers	Inherit	Inherit	Inherit	Inherit	Inherit	Inherit
Publisher	Inherit	Inherit	Allow	Inherit	Allow	Allow
Editor	Inherit	Inherit	Inherit	Inherit	Inherit	Deny
Author	Inherit	Inherit	Inherit	Inherit	Deny	Inherit
Super Users	Inherit	Inherit	Inherit	Inherit	Inherit	Inherit

User Group	Admin	Manage	Create	Delete	Edit	Edit State
Public	Inherit	Inherit	Inherit	Inherit	Inherit	Inherit
Registered	Inherit	Inherit	Inherit	Inherit	Inherit	Inherit
Administrator	Allow	Inherit	Inherit	Inherit	Inherit	Inherit
Manager	Deny	Inherit	Inherit	Inherit	Inherit	Inherit
Park Rangers	Inherit	Inherit	Inherit	Inherit	Inherit	Inherit
Publisher	Inherit	Inherit	Allow	Inherit	Allow	Allow
Editor	Inherit	Inherit	Inherit	Inherit	Inherit	Deny
Author	Inherit	Inherit	Inherit	Inherit	Deny	Inherit
Super Users	Inherit	Inherit	Inherit	Inherit	Inherit	Inherit

A closer look at the permissions for the articles. You can see we allow Administrator's to change these settings (they are given Allow to Admin). The Manager's have Deny on Admin so they will not see the Options icon in the toolbar (we need to deny this action from them because Allow falls through from Administrator above).



Summary Create Delete Edit Edit State

Shown below is an overview of the access setting for this article. Click the tabs above to customize these settings by action.

	Create	Delete	Edit	Edit State
Public	⊖	⊖	⊖	⊖
Registered	⊖	⊖	⊖	⊖
Administrator	✓	✓	✓	✓
Manager	✓	✓	✓	✓
Park Rangers	⊖	⊖	⊖	⊖
Publisher	✓	⊖	✓	✓
Editor	✓	⊖	✓	⊖
Author	✓	⊖	⊖	⊖
Super Users	⊖	⊖	⊖	⊖

Summary Create Delete Edit Edit State

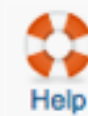
Shown below is the inherited state for **create actions** on this category and the calculated state based on the menu selection.

	Inherit		Current
Public	⊖	Inherit ▾	⊖
Registered	⊖	Inherit ▾	⊖
Administrator	✓	Inherit ▾	✓
Manager	✓	Inherit ▾	✓
Park Rangers	⊖	Inherit ▾	⊖
Publisher	✓	Inherit ▾	✓
Editor	✓	Inherit ▾	✓
Author	✓	Inherit ▾	✓
Super Users	⊖	Inherit ▾	⊖

The summary tab shows the existing state of all the permissions for this category with respect to users in the listed groups. Then there are is a tab for the Create, Delete, Edit and Edit State actions. The action panes show the permission that is inherited, a list for selecting Inherit, Allow or Deny, and then a visual cue for whether the action is allowed or not.



## Article Manager: Edit Article



### Article Details

Title

Alias

Category

Published State

### Intro Text

**B** *I* U ABC | | Styles Paragraph

| | HTML

|  $x_1$   $x^2$  |

Cradle Mountain-Lake St Clair National Park is located in the Central Highlands area of Tasmania (Australia), 165 km northwest of Hobart. The park contains many walking trails, and is where hikes along the well-known Overland Track usually begins. Major features are Cradle Mountain and Barn Bluff in the northern end, Mount Pelion East, Mount Pelion West, Mount Oakleigh and Mount Ossa in the middle and Lake St Clair in the southern end of the park. The park is part of the Tasmanian Wilderness World Heritage Area. [http://en.wikipedia.org/wiki/Cradle\\_Mountain-Lake\\_St\\_Clair\\_National\\_Park](http://en.wikipedia.org/wiki/Cradle_Mountain-Lake_St_Clair_National_Park)

### Publishing Details

#### Article Access Rules

Below are the access rules for this article where you can manage group access and actions they can perform. The default state is **Inherit**.

Summary Delete Edit Edit State

Shown below is an overview of the access setting for this article. Click the tabs above to customize these settings by action.

	Delete	Edit	Edit State
Public			
Registered			
Administrator			
Manager			
Park Rangers			
Publisher			
Editor			
Author			
Super Users			

Allowed Denied

# Questions?

- Any questions before closing?

# Get Involved

- **Join in the discussions:**  
<http://groups.google.com/group/joomla-dev-cms>
- **Test the nightly builds:**  
[http://dev.joomla.org/nightly/joomla\\_trunk/joomla\\_trunk\\_svn.tar.gz](http://dev.joomla.org/nightly/joomla_trunk/joomla_trunk_svn.tar.gz)
- **Feature patches always welcome.**

# When?

- <http://developer.joomla.org>  
soon to be relaunched ... all will be revealed.
  - ▶ Beta blockers
  - ▶ Unit testing reports
  - ▶ and much more ...

# About me

- Andrew Eddie
- Core developer since 2003
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