

Evaluation Report – WCAG2.0

1 Executive Summary



This report describes the conformance of the **Drupal 7 Test Installation** Web site with W3C's Web Content Accessibility Guidelines (WCAG) 2.0 [1].





Based on this evaluation, the Web site **is close to meeting** WCAG 2.0, Conformance Level AAA. Detailed review results are available in Section 5 below.

2 Web Site Reviewed

- **Website Title:** Drupal 7 Test Installation
- **Primary URL:** <http://www.accessipedia.info/testing/drupal>
- **Primary Natural Language:** English
- **Review Date:** 2009-05-02

2.1 Samples:

Name	URL (relativ to primary url)	Screenshot
Users	./admin/user/user	
Add Book	./node/add/book	

File Uploads	/admin/settings/uploads	 <p>The screenshot shows the 'File uploads' settings page in the Drupal 7 administration interface. The page title is 'File uploads' and it includes a search bar and a 'Manage' button. The main content area contains several sections: 'Main file server settings for uploaded images', 'Default permissions for the system default', and 'Default default file view permissions'. Each section has a 'View' link and a 'Save' button. The 'Main file server settings' section includes a text input field for the file server URL, currently set to 'http://localhost:8080'. The 'Default permissions' section includes a text input field for the default permissions, currently set to '0755'. The 'Default default file view permissions' section includes a text input field for the default permissions, currently set to '0755'.</p>												
Referrers	/admin/reports/referrers	 <p>The screenshot shows the 'Top referrers in the past 3 days' report page in the Drupal 7 administration interface. The page title is 'Top referrers in the past 3 days' and it includes a search bar and a 'Manage' button. The main content area contains a table with the following data:</p> <table border="1"> <thead> <tr> <th>Host</th> <th>URI</th> <th>Last visit</th> </tr> </thead> <tbody> <tr> <td>192.168.1.1</td> <td>/</td> <td>2013-03-04 10:00:00</td> </tr> </tbody> </table> <p>Below the table is a 'View' button.</p>	Host	URI	Last visit	192.168.1.1	/	2013-03-04 10:00:00						
Host	URI	Last visit												
192.168.1.1	/	2013-03-04 10:00:00												
Taxonomy	/admin/content/taxonomy	 <p>The screenshot shows the 'Taxonomy' management page in the Drupal 7 administration interface. The page title is 'Taxonomy' and it includes a search bar and a 'Manage' button. The main content area contains a table with the following data:</p> <table border="1"> <thead> <tr> <th>Vocabulary name</th> <th>Content type</th> <th>Operations</th> </tr> </thead> <tbody> <tr> <td>Terms</td> <td>Basic type</td> <td>add vocabulary edit terms add terms</td> </tr> <tr> <td>Tags</td> <td>Basic</td> <td>add vocabulary edit terms add terms</td> </tr> </tbody> </table> <p>Below the table is a 'View' button.</p>	Vocabulary name	Content type	Operations	Terms	Basic type	add vocabulary edit terms add terms	Tags	Basic	add vocabulary edit terms add terms			
Vocabulary name	Content type	Operations												
Terms	Basic type	add vocabulary edit terms add terms												
Tags	Basic	add vocabulary edit terms add terms												
Modules	/admin/build/modules	 <p>The screenshot shows the 'Modules' management page in the Drupal 7 administration interface. The page title is 'Modules' and it includes a search bar and a 'Manage' button. The main content area contains a table with the following data:</p> <table border="1"> <thead> <tr> <th>Enabled</th> <th>Name</th> <th>Version</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td>Aggregator</td> <td>7.2.0</td> <td>Aggregates content from external sources and displays it on your site.</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Block</td> <td>7.2.0</td> <td>Content blocks are used to display content on your site.</td> </tr> </tbody> </table> <p>Below the table is a 'View' button.</p>	Enabled	Name	Version	Details	<input checked="" type="checkbox"/>	Aggregator	7.2.0	Aggregates content from external sources and displays it on your site.	<input checked="" type="checkbox"/>	Block	7.2.0	Content blocks are used to display content on your site.
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3 Reviewer(s)

- Reviewer Name: Samuel Gratzl
- Reviewer Email: samuel_gratzl@gmx.at

4 Review Process

This review process checks the samples against the WCAG 2.0 AAA Level.

Following tools were used during the review process:

- Total Validator v5.4.0 <http://www.totalvalidator.com/tool/extension.html> used for the validation against the WCAG 2.0 success criteria.
- Luminosity Colour Contrast Ratio Analyser <http://juicystudio.com/services/luminositycontrastratio.php> used for the contrast checks.
- NoScript v1.9.2.6 <http://noscript.net/> used for the quick en/disable of javascript.
- W3C Markup Validation Service <http://validator.w3.org/check> used for the validation of the HTML and the CSS code.

5 Results and Recommended Actions

5.1 General overview

Sample	A Success Criterion			AA Success Criterion			AAA Success Criterion		
	Pass	Fail	N/A	Pass	Fail	N/A	Pass	Fail	N/A
<i>Users</i>	14	4	7	6	3	4	13	2	8
<i>Add Book</i>	15	3	7	6	3	4	13	2	8
<i>File Uploads</i>	17	1	7	8	1	4	13	2	8
<i>Referrers</i>	17	1	7	7	2	4	14	1	8
<i>Taxonomy</i>	11	7	7	6	3	4	13	2	8
<i>Modules</i>	14	4	7	6	3	4	13	2	8

Sample	Passed Rate ¹			
	A	AA	AAA	Average ²
<i>Users</i>	84,00%	76,92%	91,30%	82,86%
<i>Add Book</i>	88,00%	76,92%	91,30%	84,86%
<i>File Uploads</i>	96,00%	92,31%	91,30%	93,99%
<i>Referrers</i>	96,00%	84,62%	95,65%	92,15%
<i>Taxonomy</i>	72,00%	76,92%	91,30%	76,86%
<i>Modules</i>	84,00%	76,92%	91,30%	82,86%
<i>Total Average</i>	86,67%	80,77%	92,03%	85,59%

1 Not applicable were calculated as passed

2 The different levels have different weights A = 3, AA = 2, A = 1 → AVG = (a*3+aa*2+aaa)/6

5.2 Interpretation

The following section is a short interpretation of the test result from the success criterion. At the beginning the role of the theme will be described. The following points describe the sites and their failed success criterions and recommendations how to solve them.

5.2.1 Theme Garland

For the validation the theme *garland* was used. Because of the theme some colour scheme used in this theme, two success criterias (1.4.3: Contrast (Minimum) AA and 1.4.6: Contrast (Enhanced) AAA) fail on every sample.

Reasons why the tests fail are:

- *the colour of the links*
the light blue colour of the links hasn't enough contrast to the background.
- *the description colour*
the description texts e.g. at the file upload sample is in a light grey colour and hasn't enough contrast to the white background.
- *the main menu*
the whole main menu has the colour of the links and so it has a to low contrast.
- *the column headers*
if the column headers are sortable, they also have the light blue colour.

Recommendation:

The recommendation is quite easy: Take another theme. This should solve the contrast problems.

5.2.2 Common failures

Now some common failures which occurred in most of the samples.

5.2.2.1 2.4.1: Bypass Blocks – A

there is no way to skip e.g. the main menu and jump directly to the content.

Recommendation:

Implement a simple navigation menu at the beginning of each web site. This navigation menu should then be moved out (e.g. moved to -1000px,-1000px). So a normal graphical browser wouldn't show the navigation menu, but for screenreader the menu will be available.

5.2.2.2 2.4.5: Multiple Ways – AA

there is only one way to go to most of the pages. There exists a search function but with that you can only search for textural content, not for administration sites.

Recommendation:

The implementation of a sitemap would be sufficient. Another possibility would be that the search will be improved, so that you can search for site titles. So if you enter the term “Users” you will see a link to the users page.

5.2.2.3 2.4.10: Section Headings – AAA

There is a form in most of the samples. The forms are grouped in multiple sections and the sections are implemented via fieldsets. Furthermore the organisation of the H1 and H2 isn't the best. H1 is used in every sample for describing the global website title, which is in this case “Drupal 7 Test Installation”. H2 is used for the two main points of the main menu (“Navigation” and “Management”) and a third H2 is used for the effective title of the site, e.g. “Modules”. But there are no more heading tags in all of the samples, e.g. no H3 and so on. So the first heading tag which brings information to a user is the third H2 tag, which is not optimal.

Recommendation:

The recommendation for this success criterion is that the real page title should use the H1 tag. The global website title and the main menu shouldn't have heading tags, because they give you no information. In addition, although the use of fieldsets is quite good, a more clearer separation of the sections, e.g. with additional heading tags H2-H6 would be good. This would led to a more speakable outline too.

5.2.3 Users

5.2.3.1 1.3.1: Info and Relationships – A

The select input fields in the filter fieldset don't have a corresponding label.

Recommendation:

Create corresponding label. At least in a not direct visible way.

5.2.3.2 2.4.3: Focus Order – A

The filter fieldset have a strange ordering. The focus order is:

1. radio button permission
2. radio button status
3. select input field for permission
4. select input field for status
5. Filter submit button

Recommendation:

if it is possible checkboxes instead of radiobuttons should be used. So the focus order can be in the right ordering and the user would have the possibility to filter with both criteria. The preferred focus order would be:

1. check box / radio button permission
2. select input field for permission
3. check box / radio button status
4. select input field for status
5. filter submit button

5.2.3.3 2.4.4: Link Purpose (In Context) – A

The edit link for each user just have the name “edit” with no further information e.g. via the title attribute.

Recommendation:

Add a title attribute to each edit link, where the text is something like “edit <username>”

5.2.3.4 2.4.6: Headings and Labels – AA

See subsection 5.2.3.1 1.3.1: Info and Relationships – A

5.2.4 Add Book

5.2.4.1 1.3.1: Info and Relationships – A

According to the Total Validator there is a orphaned label field before the description which tags are allowed in the filtered HTML text format. Furthermore with deactivated javascript the Total Validator alerts, that for the more or less hidden input field after the title field a label is missing.

Recommendation:

Don't use the label tag to give the description of the text formats a title.

5.2.4.2 2.4.6: Headings and Labels – AA

See 5.2.4.1 1.3.1: Info and Relationships – A

5.2.4.3 3.2.2: On Input – A

With activated javascript the description text, for what tags are allowed according to the selected text format, changes, when you select another text format.

Recommendation:

The simplest way would be to show always both descriptions, like the non javascript version does.

5.2.5 File Uploads

There were no special failures in addition to the common failures.

5.2.6 Referrers

There were no special failures in addition to the common failures.

5.2.7 Taxonomy

The taxonomy page is a special page, because there is a big difference if you enable or disable javascript.

5.2.7.1 1.3.1: Info and Relationships – A

With disabled javascript the weight fields don't have labels.

Recommendation:

Add labels for the fields.

5.2.7.2 1.4.1: Use of Color – A

The warning that “Changes made in this table will not be saved until the form is submitted.” uses only a yellow background colour to indicate the warning.

Recommendation:

Add extra text like “warning:” at the beginning of the warning, to help people who are using a screen reader. If the text is not necessary in the graphical version, it can be made invisible.

5.2.7.3 2.1.1: Keyboard – A

With enabled javascript, it is hard to reorder entries. There is a way, that you go to the arrow button, click on space, and then use the arrow key up and down to reorder, but this behaviour isn't described in one word. The common way to reorder entries is to use drag and drop of one row, which isn't manageable with the keyboard.

Recommendation:

The recommendation for this point is, that the user should be able to decide, if he wants to use drag and drop or the non javascript version, using the weight tag.

5.2.7.4 2.4.4: Link Purpose (In Context) – A

The operations links have all the same name.

Recommendation:

Use the title attribute to indicate what the actual link does. e.g. list terms of forums

5.2.7.5 2.4.6: Headings and Labels – AA

See 5.2.7.1 1.3.1: Info and Relationships – A

5.2.7.6 3.2.2: On Input – A

With enabled javascript, if you use drag and drop to reorder a row, the warning that “changes...” appears.

Recommendation:

Don't let text appears or if you really need it, let the text appear, after the current position. e.g. in this case after the table, so that if you already read most of the site, you don't need to start again, because there were changes in the beginning. Another possible solution is to don't make the warning visible and just empathize the existing warning in the text.

5.2.7.7 3.2.5: Change on Request – AAA

See 5.2.7.6 3.2.2: On Input – A

5.2.7.8 3.3.2: Labels or Instructions – A

With disabled javascript, there is no documentation how you use the weights to reorder rows.

Recommendation:

Write a description how to use the weights and make it invisible with enabled javascript .

5.2.8 Modules

5.2.8.1 1.3.1: Info and Relationships – A

According to the Total Validator each checkbox to en/disable the module has two corresponding labels. The first label is in the same cell as the checkbox and the other label is about the name cell. The goal of the second label is to quick en/disable modules by clicking at their name.

Recommendation:

The first label tag gives you no information and can be removed. The second one is a nice gui feature, but doesn't give you information about the checkbox, too. The recommendation is to leave the second label and give the checkbox a title which indicates what it does.

5.2.8.2 1.4.1: Use of Color – A

The warning, which you can see on the screenshot of the modules pages, just uses a yellow background colour to indicate that it is a warning.

Recommendation:

see 5.2.7.2 1.4.1: Use of Color – A

5.2.8.3 2.4.4: Link Purpose (In Context) – A

The “More help” link of each module, has no title and the same text.

Recommendation:

Add a title tag with detailed information about the link e.g. with: “more help about <modulename>”

5.2.8.4 2.4.6: Headings and Labels – AA

See 5.2.8.1 1.3.1: Info and Relationships – A

5.2.9 Summary

According to the success criterion this website is close to meeting WCAG 2.0 Level AAA. There still exists some failures in every level but most of the failures can be handled with a minimum amount of work and the use of another theme. One exception is the taxonomy site, which is more difficult to fix, because of the big differences of the site with en/disabled javascript. The drag and drop feature is quite nice, but horrible for the accessibility.

Recommended priorities to fix the failures:

1. change to another theme
2. implement a simple navigation menu to bypass blocks
3. add missing labels to fields and remove orphaned labels
4. add title text to links where the text is identical (e.g. edit users)
5. rethink the section headings, by using different headings, including heading tags for fieldsets. Furthermore give warnings a title.
6. redesign / rethink the taxonomy page
7. implement an advanced search or a sitemap

6 References

1. [Web Content Accessibility Guidelines 2.0](http://www.w3.org/TR/WCAG20/)
<<http://www.w3.org/TR/WCAG20/>>
2. [Techniques for Web Content Accessibility Guidelines 2.0](http://www.w3.org/TR/WCAG20-TECHS/)
<<http://www.w3.org/TR/WCAG20-TECHS/>>

7 Appendices

The detailed list of the success criterion for each sample can be found in the following HTML sites:

Sample	Report
<i>Users</i>	testing_drupal_admin_user_user.html
<i>Add Book</i>	testing_drupal_node_add_book.html
<i>File Uploads</i>	testing_drupal_admin_settings_uploads.html
<i>Referrers</i>	testing_drupal_admin_reports_referrers.html
<i>Taxonomy</i>	testing_drupal_admin_content_taxonomy.html
<i>Modules</i>	testing_drupal_admin_build_modules.html