

## Frame Work Page

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## Contents

<b>1</b>	<b>Main Page</b>	<b>1</b>
<b>2</b>	<b>Change Log</b>	<b>1</b>
<b>3</b>	<b>Todo List</b>	<b>8</b>
<b>4</b>	<b>Bug List</b>	<b>8</b>
<b>5</b>	<b>Hierarchical Index</b>	<b>9</b>
5.1	Class Hierarchy . . . . .	9
<b>6</b>	<b>Class Index</b>	<b>10</b>
6.1	Class List . . . . .	10
<b>7</b>	<b>File Index</b>	<b>11</b>
7.1	File List . . . . .	11
<b>8</b>	<b>Class Documentation</b>	<b>12</b>
8.1	builder_form Class Reference . . . . .	12
8.1.1	Detailed Description . . . . .	13
8.1.2	Member Function Documentation . . . . .	13
8.2	color_input Class Reference . . . . .	13
8.2.1	Detailed Description . . . . .	14
8.3	crud Interface Reference . . . . .	14
8.3.1	Detailed Description . . . . .	14
8.3.2	Member Function Documentation . . . . .	14
8.4	database_form Class Reference . . . . .	15
8.4.1	Detailed Description . . . . .	16
8.4.2	Member Function Documentation . . . . .	16
8.5	datalist_input Class Reference . . . . .	18
8.5.1	Detailed Description . . . . .	18
8.5.2	Member Function Documentation . . . . .	19
8.6	date_input Class Reference . . . . .	21
8.6.1	Detailed Description . . . . .	21
8.6.2	Member Function Documentation . . . . .	21
8.7	db_form Class Reference . . . . .	23
8.7.1	Detailed Description . . . . .	23
8.7.2	Member Function Documentation . . . . .	24
8.8	email_form_values Class Reference . . . . .	24
8.9	email_input Class Reference . . . . .	25
8.10	event Class Reference . . . . .	25

8.10.1 Detailed Description . . . . .	26
8.11 field Interface Reference . . . . .	26
8.11.1 Member Function Documentation . . . . .	27
8.12 file_form Class Reference . . . . .	28
8.12.1 Detailed Description . . . . .	29
8.12.2 Member Function Documentation . . . . .	29
8.13 forms Class Reference . . . . .	30
8.13.1 Detailed Description . . . . .	31
8.13.2 Member Function Documentation . . . . .	31
8.14 fund_item Class Reference . . . . .	33
8.15 funding Class Reference . . . . .	34
8.16 hidden_input Class Reference . . . . .	35
8.16.1 Detailed Description . . . . .	35
8.16.2 Member Function Documentation . . . . .	35
8.17 input Class Reference . . . . .	37
8.17.1 Detailed Description . . . . .	38
8.17.2 Member Function Documentation . . . . .	38
8.18 input_group Class Reference . . . . .	40
8.18.1 Detailed Description . . . . .	41
8.18.2 Member Function Documentation . . . . .	41
8.19 message Class Reference . . . . .	42
8.20 number_input Class Reference . . . . .	43
8.20.1 Detailed Description . . . . .	43
8.20.2 Member Function Documentation . . . . .	43
8.21 observable Interface Reference . . . . .	44
8.21.1 Detailed Description . . . . .	44
8.21.2 Member Function Documentation . . . . .	44
8.22 observer Class Reference . . . . .	46
8.22.1 Detailed Description . . . . .	46
8.22.2 Member Function Documentation . . . . .	47
8.23 page Class Reference . . . . .	47
8.23.1 Detailed Description . . . . .	48
8.23.2 Member Function Documentation . . . . .	48
8.24 password_input Class Reference . . . . .	51
8.25 range_input Class Reference . . . . .	51
8.25.1 Detailed Description . . . . .	52
8.25.2 Member Function Documentation . . . . .	52
8.26 tel_input Class Reference . . . . .	52
8.26.1 Detailed Description . . . . .	53
8.26.2 Member Function Documentation . . . . .	53

8.27	text_input Class Reference	53
8.27.1	Detailed Description	54
8.28	textarea Class Reference	54
8.28.1	Detailed Description	54
8.28.2	Member Function Documentation	55
8.29	texteditor Class Reference	55
8.29.1	Detailed Description	56
8.29.2	Member Function Documentation	56
8.30	zip_input Class Reference	56
8.30.1	Detailed Description	57
8.30.2	Member Function Documentation	57
<b>9</b>	<b>File Documentation</b>	<b>57</b>
9.1	crud.inc.php File Reference	57
9.1.1	Detailed Description	57
9.2	database_form.inc.php File Reference	57
9.2.1	Detailed Description	58
9.3	db_form.inc.php File Reference	58
9.3.1	Detailed Description	58
9.4	event.inc.php File Reference	58
9.4.1	Detailed Description	59
9.5	extended_inputs.inc.php File Reference	59
9.5.1	Detailed Description	59
9.6	field.inc.php File Reference	59
9.6.1	Detailed Description	59
9.7	file_form.inc.php File Reference	59
9.7.1	Detailed Description	60
9.8	forms.inc.php File Reference	60
9.8.1	Detailed Description	60
9.9	hidden_input.inc.php File Reference	60
9.9.1	Detailed Description	61
9.10	input.inc.php File Reference	61
9.10.1	Detailed Description	61
9.10.2	Variable Documentation	61
9.11	input_group.inc.php File Reference	61
9.11.1	Detailed Description	62
9.12	observable.inc.php File Reference	62
9.12.1	Detailed Description	62
9.13	observer.inc.php File Reference	62
9.13.1	Detailed Description	62

9.14	page.inc.php File Reference	62
9.14.1	Detailed Description	63
9.14.2	Variable Documentation	63
9.15	textarea.inc.php File Reference	64
9.15.1	Detailed Description	64
9.16	texteditor.inc.php File Reference	64
9.16.1	Detailed Description	64

## Index

65

## 1 Main Page

This project aims to create a proceess creator that will model business processes, end to end.

PDF of documentation can be found at <https://lswebdev.uwm.edu/secure/travel/doc/latex/refman.-pdf>.

## 2 Change Log

### Production

### Development

- eeeddaa 2013-10-25 | Fix a few problems with a single include. (HEAD, master) [Jeremy Streich]
- 852eeff 2013-10-25 | Object operator would help. [Jeremy Streich]
- 3dbb163 2013-10-25 | One of these days I'll get it on the first try. :( [Jeremy Streich]
- cab83d6 2013-10-25 | Opps. [Jeremy Streich]
- 0d4624a 2013-10-25 | GROWR!!! I found you. [Jeremy Streich]
- ddd4510 2013-10-25 | more debug. [Jeremy Streich]
- 20a2a25 2013-10-25 | Opps. [Jeremy Streich]
- a342b42 2013-10-25 | Grumpy. [Jeremy Streich]
- e93a4e4 2013-10-25 | duh. [Jeremy Streich]
- f9594de 2013-10-25 | More debugging added. [Jeremy Streich]
- 7540839 2013-10-25 | Hmm? [Jeremy Streich]
- b1b1a5f 2013-10-25 | For js... [Jeremy Streich]
- 11bd3c0 2013-10-25 | blah... [Jeremy Streich]
- 4b99c62 2013-10-25 | Another. [Jeremy Streich]
- 17c76eb 2013-10-25 | fixed. [Jeremy Streich]
- 7285894 2013-10-25 | duh. [Jeremy Streich]
- d7143c0 2013-10-25 | POST to GET. [Jeremy Streich]

- b7077cb 2013-10-25 | Made crud interface a little better. [Jeremy Streich]
- 376d9a7 2013-10-25 | Added message action. [Jeremy Streich]
- 2c906fd 2013-10-25 | opps. [Jeremy Streich]
- 24bd917 2013-10-25 | Limit when the email fires. [Jeremy Streich]
- 2c76c41 2013-10-25 | More debugging. Zero observers. [Jeremy Streich]
- 8be77b5 2013-10-25 | More debug info. hmm. [Jeremy Streich]
- c54683e 2013-10-25 | Maybe now we'll get an idea of what is going on? [Jeremy Streich]
- b6efcd1 2013-10-25 | ah hah! [Jeremy Streich]
- 4f4e4db 2013-10-25 | common and work. [Jeremy Streich]
- a8faa4e 2013-10-25 | hmm... [Jeremy Streich]
- d934a55 2013-10-25 | Fixing things. hopefully. [Jeremy Streich]
- 4dd84b3 2013-10-25 | Ah Ha? Maybe? [Jeremy Streich]
- 66b7132 2013-10-25 | Debugging [Jeremy Streich]
- e2a9353 2013-10-25 | Hmmm.. [Jeremy Streich]
- cdc7b7 2013-10-25 | Fix doble dollarsign issue. [Jeremy Streich]
- 80e1b9d 2013-10-25 | Hmmm.. [Jeremy Streich]
- 08142bc 2013-10-25 | Minor stuff. silly stuff. [Jeremy Streich]
- 49fc676 2013-10-25 | Ish. [Jeremy Streich]
- 1f31548 2013-10-25 | Seesh. [Jeremy Streich]
- 576931a 2013-10-25 | More pass by reference... I know I will want it later, but it is a pain to add it now. Better now, than changing even more code later... [Jeremy Streich]
- 688e4b6 2013-10-25 | More pass by reference problems... sheesh. Maybe that was a bad idea. [Jeremy Streich]
- 2615eec 2013-10-25 | umm... yeah. [Jeremy Streich]
- 22664a4 2013-10-25 | Herp derp... [Jeremy Streich]
- b3953ca 2013-10-25 | derp. [Jeremy Streich]
- 40857a1 2013-10-25 | Had for where I needed a foreach... I just can't cut a break today. [Jeremy Streich]
- b12d689 2013-10-25 | Duh! [Jeremy Streich]
- dad4f01 2013-10-25 | pass by reference isn't liking me today. [Jeremy Streich]
- ba3d5e5 2013-10-25 | Roar. [Jeremy Streich]
- a88c0ea 2013-10-25 | Again... [Jeremy Streich]
- 994ebc5 2013-10-25 | Grr... stray quote removed. [Jeremy Streich]
- 60e14fd 2013-10-25 | Opps. [Jeremy Streich]
- c1c0a97 2013-10-25 | Cleaned some stuff up, and added email action. [Jeremy Streich]
- 9d46ce5 2013-10-25 | A little work to makes things look a bit nicer. [Jeremy Streich]
- 4dbc6e6 2013-10-25 | Fixed small issue. [Jeremy Streich]
- deb71de 2013-10-25 | Missing optional default value. Fixed. [Jeremy Streich]

- 1a9fdf9 2013-10-25 | Fixed class. [Jeremy Streich]
- 21afe05 2013-10-25 | A little more formatting. [Jeremy Streich]
- 931ec90 2013-10-25 | A little bit more formatting. [Jeremy Streich]
- 95f5300 2013-10-25 | Breaking up the pages a bit. [Jeremy Streich]
- 2600a7f 2013-10-25 | More closing tags. [Jeremy Streich]
- 449be35 2013-10-25 | Fixed missing closing tags. [Jeremy Streich]
- a61927d 2013-10-25 | More formatting. [Jeremy Streich]
- 6881203 2013-10-25 | Fixed a small issue. [Jeremy Streich]
- d71c870 2013-10-25 | Trying to enhance the form crud. [Jeremy Streich]
- 94a1769 2013-10-25 | Work on look of crud page. [Jeremy Streich]
- 3318d5d 2013-10-24 | More style stuff. [Jeremy Streich]
- 1644c7c 2013-10-24 | Fixed some stuff up. [Jeremy Streich]
- 99ccf72 2013-10-24 | Footer. [Jeremy Streich]
- 67d8eb3 2013-10-24 | Slight Tweak. [Jeremy Streich]
- ec793b8 2013-10-24 | Work with page. [Jeremy Streich]
- da48475 2013-10-24 | hmm? [Jeremy Streich]
- ea496ab 2013-10-24 | Please work. [Jeremy Streich]
- b748581 2013-10-24 | Fix a few things. [Jeremy Streich]
- 3a7fdc6 2013-10-24 | Opps. [Jeremy Streich]
- 4f69e88 2013-10-24 | Rolled in framework\_include and redid the form in it. [Jeremy Streich]
- f2464f0 2013-10-24 | More fixing the observers... [Jeremy Streich]
- cad547a 2013-10-24 | Fixed a little undeclared variable trouble. [Jeremy Streich]
- c2691c5 2013-10-24 | Top Add Field link in form\_data\_curd.php fixed. [Jeremy Streich]
- 9e7064d 2013-10-24 | Fixed a bug the last fix introduced. [Jeremy Streich]
- 8695cd1 2013-10-24 | Fixed a little something. [Jeremy Streich]
- ea2bfb5 2013-10-24 | Fixed the event definitions. [Jeremy Streich]
- e6294c5 2013-10-24 | Fixing value being moved up the inheritance tree. [Jeremy Streich]
- 3fa1def 2013-10-24 | Work related to date and password fields. [Jeremy Streich]
- 589b902 2013-10-16 | Moved changes from LEAP project back into this one. Cleaned up git repo to match current file state. [Jeremy Streich]
- f080b67 2013-07-19 | Let's try the polly fill again from scratch. [Jeremy Streich]
- 8b32a2b 2013-07-19 | Path stuff. :( [Jeremy Streich]
- 87ed9a1 2013-07-19 | Comme on and work!? [Jeremy Streich]
- 56b4123 2013-07-19 | Maybe that did it? [Jeremy Streich]
- 8756590 2013-07-19 | Still working on pollyfill. [Jeremy Streich]
- e5c90b3 2013-07-19 | Trying to get the pollyfill to work. [Jeremy Streich]

- ff2887b 2013-07-18 | Moved JS to the head of form\_test.php [Jeremy Streich]
- 1c790f4 2013-07-18 | Modernizer added, with a JS polyfill for HTML5 form elements. [Jeremy Streich]
- bd5699d 2013-07-18 | Increased size the texteditor can expand. [Jeremy Streich]
- 0429bb0 2013-07-18 | hmm? [Jeremy Streich]
- 9b3584f 2013-07-18 | Made the texteditor resizable downward. [Jeremy Streich]
- 82536dd 2013-07-18 | Fixed late commit. [Jeremy Streich]
- a4bb4bd 2013-07-18 | Increase capability of texteditor in html. [Jeremy Streich]
- 03c22cf 2013-07-17 | D'oh. [Jeremy Streich]
- 6b9b206 2013-07-17 | Small but important changes. wrong type attributes for `number_input`. fixed. [Jeremy Streich]
- b8807a1 2013-07-17 | D'oh! Typoed required [Jeremy Streich]
- f353ef2 2013-07-17 | Needed to include `texteditor.inc.php` in `form_data_crud.php` . [Jeremy Streich]
- 60d33be 2013-07-17 | Fixing constructor call for `range_input::range_input()` in `form.php` [Jeremy Streich]
- 869e81a 2013-07-17 | Fixing display of the editor. [Jeremy Streich]
- 4c59999 2013-07-17 | D'oh. [Jeremy Streich]
- d6b1333 2013-07-17 | Fixed. [Jeremy Streich]
- fde87ca 2013-07-17 | Path to tinymce was wrong, fixed it. [Jeremy Streich]
- 977bfcf 2013-07-17 | D'oh. again. [Jeremy Streich]
- 0c67c7a 2013-07-17 | D'oh. [Jeremy Streich]
- 5ac1d64 2013-07-17 | Missed the inheritance on texteditor class. Now fixed so that texteditor extends textarea [Jeremy Streich]
- 66d2030 2013-07-17 | Fixed forms class to pass on the query and tinymce messages of `texteditor::form()` [Jeremy Streich]
- 234ef67 2013-07-17 | Fixed error in quoting in `form.php` [Jeremy Streich]
- 873e00d 2013-07-17 | D'oh! [Jeremy Streich]
- 71bfdf4 2013-07-17 | Updated class `builder_form` to allow use of rich text areas from class texteditor . [Jeremy Streich]
- 16937f7 2013-07-17 | Added texteditor class, a copy of tinymce 4.0.1 and jquery 1.10.2 [Jeremy Streich]
- 9ae4947 2013-07-15 | Cleaned up a warning message. [Jeremy Streich]
- e81b45a 2013-07-15 | Fixed spelling of htmlentities function in `textarea::form()` [Jeremy Streich]
- 574a16b 2013-07-15 | Fixed missing break in `builder_form::make_field()` . [Jeremy Streich]
- 5723d05 2013-07-11 | changed `textarea::$type` to 'textarea' [Jeremy Streich]
- d9e2de7 2013-07-11 | Fixed missing '\$'. [Jeremy Streich]
- 1aa81c4 2013-07-11 | Added class textarea and made other minor adjustments. [Jeremy Streich]
- 03b4395 2013-07-08 | Slight change to `database_form::display_structure()` . [Jeremy Streich]
- 064af39 2013-07-08 | Formating `form_data_crud.php` . [Jeremy Streich]
- dc6ce89 2013-07-08 | Fixed variable name. [Jeremy Streich]



- 00e0c54 2013-07-08 | Added displaying the structure of forms before the form data CRUD. [Jeremy Streich]
- de5e272 2013-07-03 | Ensured that forms::observers was initialized before use. [Jeremy Streich]
- 2343042 2013-07-03 | Fixed problem in observer file. [Jeremy Streich]
- 776d2d5 2013-07-03 | Fixed some things, documented the observer class. [Jeremy Streich]
- d4fad73 2013-07-03 | Fixed typo, missing dollar sign... [Jeremy Streich]
- b9aefc6 2013-07-03 | Fixed typo stray single quote. [Jeremy Streich]
- ce5ddb2 2013-07-03 | \* Added observer objects. \* Added observable objects. \* Added event objects. \* Turned forms into an observable object. \* Made forms and [database\\_form](#) both call notify on every important action. \* Changed fields to be an interface. \* Added [database\\_form::display\\_structure\(\)](#) . [Jeremy Streich]
- 93b0219 2013-07-03 | D'oh! [Jeremy Streich]
- 21bd82a 2013-07-03 | Fixed table? [Jeremy Streich]
- 4bb93b1 2013-07-03 | hmm? [Jeremy Streich]
- 6a69ba5 2013-07-03 | Added more debugging... [Jeremy Streich]
- 1d3d3fd 2013-07-03 | Working on [database\\_form::display\\_table\(\)](#) . [Jeremy Streich]
- 5697fcb 2013-07-03 | Missed an s on a variable name. Fixed. [Jeremy Streich]
- adea66b 2013-07-03 | Added required files to form\_data\_crud.inc.php [Jeremy Streich]
- 3191297 2013-07-03 | Forgot to put quotes around file name in require\_once statement, fixed. [Jeremy Streich]
- c511c89 2013-07-03 | Working to get this all nice and sweet. Added lines to display errors encountered. [Jeremy Streich]
- d38a866 2013-07-03 | Added form\_data\_crud.php to project to display the table of data for a given form. [Jeremy Streich]
- 3fe4f1f 2013-07-03 | Change lock fopen from read to write in [database\\_form::create\(\)](#) [Jeremy Streich]
- 8a3a411 2013-07-03 | Fixed accidental double dollarsign in form.php [Jeremy Streich]
- 1a01b9c 2013-07-03 | Maybe this isn't the place to do the change log. Maybe that should be server side? Possibly. We'll work it out. [Jeremy Streich]
- 6268325 2013-07-03 | Added form submission to form.php . [Jeremy Streich]
- 6f39dab 2013-07-03 | Fixed another silly error. [Jeremy Streich]
- f499063 2013-07-03 | Fixed which global a non-new add\_field comes from. [Jeremy Streich]
- 953e4e7 2013-07-03 | Added ability to add a field to non-new form. [Jeremy Streich]
- 18ee5f2 2013-07-03 | Fixed another typo. Had 'max\_lengeth' when I meant 'maxlength' sigh [Jeremy Streich]
- 84c339e 2013-07-03 | Updated which order the value list is used. key will be the value and value will be the label. Need to document that in comments. [Jeremy Streich]
- 0cc62d3 2013-07-03 | Fixed another typo. form was misspelled from... sheesh. [Jeremy Streich]
- c751fe7 2013-07-03 | Changed direct use of  
input:  
value to be use of  
[input::get\\_value\(\)](#) [Jeremy Streich]
- a83c564 2013-07-03 | Added [input::get\\_value](#) and [input::set\\_value](#) functions. [Jeremy Streich]

- 3e6daaa 2013-07-03 | typo fixed field where I should have had fields. [Jeremy Streich]
- a5aa92e 2013-07-03 | Missing \$this-> was added in. Now values should store to forms when [forms::values\(\)](#) is called. [Jeremy Streich]
- f35a9d0 2013-07-03 | Fixed missing semi. :( [Jeremy Streich]
- d232764 2013-07-03 | Added more debugging. Going to find it. [Jeremy Streich]
- e113caa 2013-07-03 | Added more debugging.... going to find out why add\_field isn't seeing passed fields. [Jeremy Streich]
- 7d502c4 2013-07-03 | Stopped trying to read error after mysqli\_stmt is closed. [Jeremy Streich]
- ca5a1c6 2013-07-02 | Added Changelog. If this works will become part of git pre-commit hooks. [Jeremy Streich]
- fb7cf9f 2013-07-02 | Added outputting the db->errors to [database\\_form](#) [Jeremy Streich]
- f05dd1b 2013-07-02 | Fixed typo. [Jeremy Streich]
- 2d70641 2013-07-02 | Added debug to [database\\_form](#). [Jeremy Streich]
- 8ac751a 2013-07-02 | Was using POST meant GET in form.php. [Jeremy Streich]
- bf90b30 2013-07-02 | Silly error now fixed. \$\_get -> \$\_GET [Jeremy Streich]
- a2de7f3 2013-07-02 | Fixed last commit. [Jeremy Streich]
- bf82dad 2013-07-02 | Added debug options to form.php [Jeremy Streich]
- 10554cf 2013-07-02 | Added form.php which presents the form to be filled. [Jeremy Streich]
- 0f9b00f 2013-07-02 | Updated build\_form to associate it's field array, and updated add\_field to show error messages. [Jeremy Streich]
- eb13a92 2013-07-02 | Print error messages. [Jeremy Streich]
- 7ad533b 2013-07-02 | Changed an append equal to an equals in validate functions. [Jeremy Streich]
- b05a2ae 2013-07-02 | Fixed spelling error. [Jeremy Streich]
- 9288edb 2013-07-02 | Removed typo [Jeremy Streich]
- 979039b 2013-07-02 | Changed condition in add\_field to match passed \$\_POST parameters. [Jeremy Streich]
- 6f82271 2013-07-02 | Another syntax error... not my day. [Jeremy Streich]
- f1e691b 2013-07-02 | Fixed another syntax error. [Jeremy Streich]
- d326dde 2013-07-02 | Fix syntax errors [Jeremy Streich]
- 86c2ce0 2013-07-02 | Added add\_field file with the proper functionality. [Jeremy Streich]
- c118b8b 2013-07-02 | Grrr.. fixed end of line char from : to ; in crud.php [Jeremy Streich]
- b4b472c 2013-07-02 | Fixed an issue with crud.php . Maybe got it working again? [Jeremy Streich]
- bba68f4 2013-07-02 | Commenting stuff out to find error... [Jeremy Streich]
- bc0ca2f 2013-07-02 | Added very basic formatting to crud.php. Still looking for it's error. [Jeremy Streich]
- 6799c2c 2013-07-02 | Fixed where the PHP tags begin and end in crud.php . [Jeremy Streich]
- eec46a5 2013-07-02 | Added error reporting to crud. Remove before release. [Jeremy Streich]
- a5053ba 2013-07-02 | Table listing all forms added to crud. [Jeremy Streich]
- 7f6a16a 2013-07-02 | Added on to creat\_form.php. [Jeremy Streich]

- 0b87ed1 2013-07-02 | Very basic format and style of create\_form.php [Jeremy Streich]
- 50cec31 2013-07-02 | More argument mashing. Consider making value optional on number\_ and text\_ inputs. [Jeremy Streich]
- a15621e 2013-07-02 | Fixed a number of issues to remove warnings. [Jeremy Streich]
- 1adfae6 2013-07-02 | Fixed file name. [Jeremy Streich]
- 063bc02 2013-07-02 | Fixed more includes. [Jeremy Streich]
- 37b8309 2013-07-02 | Fixed includes. [Jeremy Streich]
- b214df5 2013-07-02 | Fixed error with assigning to \$this. [Jeremy Streich]
- 9807df3 2013-07-02 | Show errors. [Jeremy Streich]
- 6c7d230 2013-07-02 | Added crud.php as a stub. [Jeremy Streich]
- 865a6bb 2013-07-02 | Added [builder\\_form](#) and file to use it. [Jeremy Streich]
- 08b1b79 2013-07-02 | Database connection. [Jeremy Streich]
- 5e8b6fe 2013-07-02 | Still making the abstract class happy. [Jeremy Streich]
- 2d9030c 2013-07-02 | Working to make abstract class happy. [Jeremy Streich]
- fddfa96 2013-07-02 | Removed some type hinting because PHP is picky about default values. [Jeremy Streich]
- 1d72ece 2013-07-02 | Fixed hinting/default matching on [input.inc.php](#) . [Jeremy Streich]
- c5b51e7 2013-07-02 | Added abstract base class field. Increased amount of type hinting. [Jeremy Streich]
- 5369660 2013-07-01 | Fixed documentation problem with input class, and solved some errors in [range\\_input](#). [Jeremy Streich]
- 8ec5cf2 2013-07-01 | Added escape chars to [input.inc.php](#) doc. Stipp can't get the input class to doc right. :( [Jeremy Streich]
- b3a8e72 2013-06-28 | WHYYYY? [Jeremy Streich]
- 315bb02 2013-06-28 | hmm? [Jeremy Streich]
- 89d1ecd 2013-06-28 | Hmm? Maybe this will do it? [Jeremy Streich]
- 3485d05 2013-06-28 | Working on Documentation. [Jeremy Streich]
- ddf5345 2013-06-28 | Fixed up documentation and such. [Jeremy Streich]
- 01d7919 2013-06-28 | Broke out the convience classes and input\_group class from out of the [input.inc.php](#) [Jeremy Streich]
- eb1f65d 2013-06-28 | Removed INSTALL.md [Jeremy Streich]
- 6de63a0 2013-06-28 | Updated documentation, turned RegExes for Phone and Zip into Deifined constants. [Jeremy Streich]
- 3011d8d 2013-06-28 | Updated readme. Let's see if this works. [Jeremy Streich]
- 3d1b831 2013-06-28 | Forms::display() added. [Jeremy Streich]
- b5bd056 2013-06-28 | Added [database\\_form](#), added display function to input, improved documentation. [Jeremy Streich]
- 1af5254 2013-06-19 | Initial checkin. [Jeremy Streich]

### 3 Todo List

**Member `datalist_input::form`** (`$errors=array()`)

fix so it doesn't require JS.

**Class `date_input`**

Polyfill.

**Class `db_form`**

: decide if this is the way to do this. perhaps write the alternative method.

**Member `db_form::create_sql`** ()

**Member `db_form::delete`** ()

**Member `db_form::update`** ()

**Member `file_form::create`** ()

get new id

locking.

**Member `file_form::delete`** ()

locking.

**Member `file_form::read`** ()

locking.

**Member `file_form::update`** ()

locking.

**Member `input_group::input_group`** (`$label_text`, `$name`, `$value_list`, `$type= 'checkbox'`, `$value= ''`, `$required= ''`, `$placeholder= ''`, `$sanity_func=null`, `$valid_func=null`)

work out required, and single values.

**Member `input_group::sanitize`** ()

Write this.

**Member `input_group::validate`** (`$errors=array()`)

Write this.

**Class `page`**

Finish class.

create `forms_page` object. And derive a `database_forms_page` object from it.

**Member `page::set_content`** (`$c`)

validation of types.

**Member `page::set_google_analytics`** (`$gac`)

verification of types

### 4 Bug List

**Member `input_group::sanitize`** ()

always returns true.

**Member `input_group::validate`** (`$errors=array()`)

always returns true.

## 5 Hierarchical Index

### 5.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

<b>crud</b>	<b>14</b>
<b>database_form</b>	<b>15</b>
<b>event</b>	<b>25</b>
<b>field</b>	<b>26</b>
<b>forms</b>	<b>30</b>
<b>builder_form</b>	<b>12</b>
<b>database_form</b>	<b>15</b>
<b>db_form</b>	<b>23</b>
<b>file_form</b>	<b>28</b>
<b>input</b>	<b>37</b>
<b>color_input</b>	<b>13</b>
<b>datalist_input</b>	<b>18</b>
<b>datalist_input</b>	<b>18</b>
<b>date_input</b>	<b>21</b>
<b>email_input</b>	<b>25</b>
<b>hidden_input</b>	<b>35</b>
<b>input_group</b>	<b>40</b>
<b>number_input</b>	<b>43</b>
<b>password_input</b>	<b>51</b>
<b>range_input</b>	<b>51</b>
<b>tel_input</b>	<b>52</b>
<b>text_input</b>	<b>53</b>
<b>textarea</b>	<b>54</b>
<b>texteditor</b>	<b>55</b>
<b>zip_input</b>	<b>56</b>
<b>fund_item</b>	<b>33</b>
<b>funding</b>	<b>34</b>
<b>message</b>	<b>42</b>

observable	44
forms	30
observer	46
email_form_values	24
page	47

## 6 Class Index

### 6.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

<a href="#">builder_form</a>	
This file defines the builder forms, which builds other forms	12
<a href="#">color_input</a>	
This convenience class creates a color input with validation and sanitization	13
<a href="#">crud</a>	
Describes an object that knows how to Create, Read, Update and Delete itself	14
<a href="#">database_form</a>	
This class allows the both the structure and the data for this form to be written out to a database	15
<a href="#">datalist_input</a>	
Adaptor to input class, adds a datalist	18
<a href="#">date_input</a>	
This convenience class creates a date input	21
<a href="#">db_form</a>	
Represents an HTML form, and saves form data in \$db table named by the name attribute of this object	23
<a href="#">email_form_values</a>	24
<a href="#">email_input</a>	25
<a href="#">event</a>	
This describes an event in the observer pattern to pass information between the observable and observer	25
<a href="#">field</a>	26
<a href="#">file_form</a>	
This class represents an HTML form, it's values, how it is validated and allows to read/write form data to serialized files	28
<a href="#">forms</a>	
This class describes an HTML form, containing a collection of inputs, and does mass validation and sanitization on them	30
<a href="#">fund_item</a>	33
<a href="#">funding</a>	34

<a href="#">hidden_input</a>	The class <a href="#">hidden_input</a> describes a form element, it's attributes and how it is validated and sanitized	35
<a href="#">input</a>	The class <a href="#">input</a> describes a form element, it's attributes and how it is validated and sanitized	37
<a href="#">input_group</a>	Defines a group of related inputs like radio buttons or checkboxes that have the same name, but different values	40
<a href="#">message</a>		42
<a href="#">number_input</a>	This convenience class allows easy creation of an input with type="number"	43
<a href="#">observable</a>	Describes objects that are able to be observed by observer objects	44
<a href="#">observer</a>	Implements the observer in the observer pattern	46
<a href="#">page</a>	Holds the code to add to the head and foot	47
<a href="#">password_input</a>		51
<a href="#">range_input</a>	Represents a slider element, an input with type="range"	51
<a href="#">tel_input</a>	This represents a telephone number input, has regex sanitization and validation to ensure valid format for phone 7 or 10 digit phone number	52
<a href="#">text_input</a>	Convenience function for creating text inputs	53
<a href="#">textarea</a>	Describes a textarea, it's sanitization and validation	54
<a href="#">texteditor</a>	This is a form element wrapping the textarea with javascript to turn it into a rich text editor	55
<a href="#">zip_input</a>	This convenience class creates a text input with validation for long or short form US zip codes	56

## 7 File Index

### 7.1 File List

Here is a list of all documented files with brief descriptions:

<a href="#">crud.inc.php</a>	Contains the interface for crud	57
<a href="#">database_form.inc.php</a>		57
<a href="#">db_form.inc.php</a>	Contains <a href="#">db_form</a> class	58

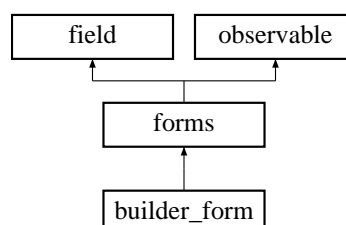
<a href="#">event.inc.php</a>		
This file contains the event class		58
<a href="#">extended_inputs.inc.php</a>		59
<a href="#">field.inc.php</a>		
Contains the field interface		59
<a href="#">file_form.inc.php</a>		
This file contains the class <a href="#">file_form</a>		59
<a href="#">forms.inc.php</a>		
Contains the forms class		60
<a href="#">hidden_input.inc.php</a>		
This file contains the <a href="#">hidden_input</a> class		60
<a href="#">input.inc.php</a>		
This file contains the input class		61
<a href="#">input_group.inc.php</a>		
Holds the class for <a href="#">input_group</a>		61
<a href="#">observable.inc.php</a>		
Contains the interface observable		62
<a href="#">observer.inc.php</a>		
Contains the observer class		62
<a href="#">page.inc.php</a>		
Contains the page class		62
<a href="#">textarea.inc.php</a>		
Contains the class for a textarea object which extends the input object		64
<a href="#">texteditor.inc.php</a>		
This file contains the class definition for the texteditor class		64

## 8 Class Documentation

### 8.1 [builder\\_form](#) Class Reference

This file defines the builder forms, which builds other forms.

Inheritance diagram for [builder\\_form](#):



#### Public Member Functions

- [builder\\_form](#) ()



*Constructor for the builder form.*

- [make\\_field\(\)](#)  
*Creates a field from this form to be added to the form we're building.*
- [form\(\\$errors=array\(\)\)](#)  
*Returns the HTML for this [builder\\_form](#).*

## Additional Inherited Members

### 8.1.1 Detailed Description

This file defines the builder forms, which builds other forms.

This form build up a form by creating fields.

### 8.1.2 Member Function Documentation

#### 8.1.2.1 [builder\\_form::form\( \\$errors = array\(\) \)](#)

Returns the HTML for this [builder\\_form](#).

#### See Also

[forms::form\(\)](#)

Implements [field](#).

#### 8.1.2.2 [builder\\_form::make\\_field\( \)](#)

Creates a field from this form to be added to the form we're building.

#### Precondition

we have valid inputs, as checked with [sanitize\(\)](#) and [validate\(\)](#)

#### Returns

an input object with the user set parameters.

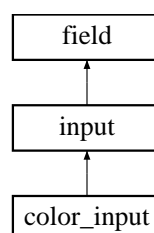
The documentation for this class was generated from the following file:

- [builder\\_form.inc.php](#)

## 8.2 color\_input Class Reference

This convience class creates a color input with validation and sanitization.

Inheritance diagram for [color\\_input](#):



## Public Member Functions

- **color\_input** (\$label\_text, \$name, \$value, \$required=false, \$sanity\_func=null, \$valid\_func=null)

## Additional Inherited Members

### 8.2.1 Detailed Description

This convenience class creates a color input with validation and sanitization.

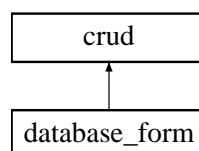
The documentation for this class was generated from the following file:

- [extended\\_inputs.inc.php](#)

## 8.3 crud Interface Reference

Describes an object that knows how to Create, Read, Update and Delete itself.

Inheritance diagram for crud:



## Public Member Functions

- [create](#) ()  
*Create \$this object in database or file.*
- [read](#) ()  
*Read the object from database into \$this object.*
- [update](#) ()  
*Update the record for \$this object.*
- [delete](#) ()  
*Delete the record for \$this object.*

### 8.3.1 Detailed Description

Describes an object that knows how to Create, Read, Update and Delete itself.

### 8.3.2 Member Function Documentation

#### 8.3.2.1 crud::create ( )

Create \$this object in database or file.

#### Postcondition

\$this object is created in the storage medium.

Implemented in [database\\_form](#).

## 8.3.2.2 crud::delete ( )

Delete the record for \$this object.

## Postcondition

The record for \$this object will be removed from the storage medium.

Implemented in [database\\_form](#).

## 8.3.2.3 crud::read ( )

Read the object from database into \$this object.

## Postcondition

If successful \$this object will have the data that was in the storage medium.

Implemented in [database\\_form](#).

## 8.3.2.4 crud::update ( )

Update the record for \$this object.

## Postcondition

The record for \$this object in the storage medium will be changed to match \$this object's current state.

Implemented in [database\\_form](#).

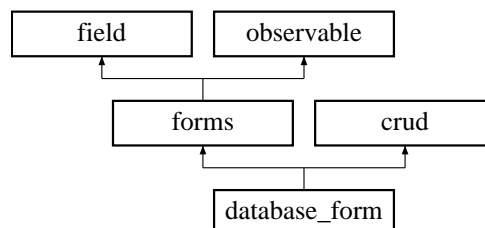
The documentation for this interface was generated from the following file:

- [crud.inc.php](#)

## 8.4 database\_form Class Reference

This class allows the both the structure and the data for this form to be written out to a database.

Inheritance diagram for database\_form:



## Public Member Functions

- [create\\_form](#) ()  
*Writes form structure into database \$db to table forms.*
- [read\\_form](#) ()  
*Reads form structure out of database \$db table forms.*
- [update\\_form](#) ()  
*Writes form structure into database \$db to table forms.*
- [delete\\_form](#) ()

- Delete this form from the database \$db table forms.*
  - [create](#) ()
    - Write the values of this form out to database \$db table forms\_data.*
  - [read](#) ()
    - Read the data into this form from database \$db table forms\_data.*
  - [update](#) ()
    - Update the data in the database to match the values of this form.*
  - [delete](#) ()
    - Deletes the data record for this form.*
  - **display\_structure** ()
  - [display\\_table](#) ()
    - Returns HTML for all form data for this specific form.*

## Additional Inherited Members

### 8.4.1 Detailed Description

This class allows the both the structure and the data for this form to be written out to a database.

### 8.4.2 Member Function Documentation

#### 8.4.2.1 `database_form::create ( )`

Write the values of this form out to database \$db table forms\_data.

##### Precondition

Must have mysqli database connection object in scope named '\$db'.

##### Postcondition

This forms data will be written out to the database.

Implements [crud](#).

#### 8.4.2.2 `database_form::create_form ( )`

Writes form structure into database \$db to table forms.

##### Precondition

Must have mysqli database connection object in scope named '\$db'.

##### Postcondition

The form in serialized form will be written to the database.

#### 8.4.2.3 `database_form::delete ( )`

Deletes the data record for this form.

##### Precondition

Must have mysqli database connection object in scope named '\$db'.

##### Postcondition

The data for for this form will be deleted.

Implements [crud](#).

#### 8.4.2.4 database\_form::delete\_form ( )

Delete this form from the database \$db table forms.

##### Precondition

Must have mysqli database connection object in scope named '\$db'.

##### Postcondition

this form will no longer be in the database.

#### 8.4.2.5 database\_form::display\_table ( )

Returns HTML for all form data for this specific form.

##### Precondition

Must have mysqli database connection object in scope named '\$db'.

##### Returns

array containing 'html' => The html table for all forms of this type filled out and 'js' => Any JavaScript to make the table more functional.

#### 8.4.2.6 database\_form::read ( )

Read the data into this form from database \$db table forms\_data.

##### Precondition

Must have mysqli database connection object in scope named '\$db'.

##### Postcondition

This object will be populated with data from the database.

Implements [crud](#).

#### 8.4.2.7 database\_form::read\_form ( )

Reads form structure out of database \$db table forms.

##### Precondition

Must have mysqli database connection object in scope named '\$db'.

##### Postcondition

This form will take on the structure that was saved to the database.

#### 8.4.2.8 database\_form::update ( )

Update the data in the database to match the values of this form.

##### Precondition

Must have mysqli database connection object in scope named '\$db'.

##### Postcondition

the database records for the values of this form will be updated to match the values in this form.

Implements [crud](#).

#### 8.4.2.9 database\_form::update\_form ( )

Writes form structure into database \$db to table forms.

##### Precondition

Must have mysqli database connection object in scope named '\$db'.

##### Postcondition

The form in serialized form will be written to the database.

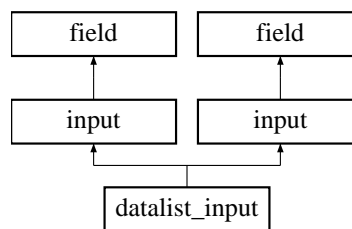
The documentation for this class was generated from the following file:

- [database\\_form.inc.php](#)

## 8.5 datalist\_input Class Reference

Adaptor to input class, adds a datalist.

Inheritance diagram for datalist\_input:



### Public Member Functions

- [form](#) (\$errors=array())  
*Generates the html for the input for inclusion in a form.*
- [datalist\\_input](#) (\$input, \$datalist)  
*Constructor.*
- [display](#) ()  
*Display function wraps [input::display\(\)](#)*
- [sanitize](#) ()  
*Sanitization function wraps [input::sanitize\(\)](#)*
- [validate](#) (\$errors=array())  
*Validation function wraps [input::validate\(\)](#)*
- [get\\_value](#) ()  
*Inspector for value of input, wraps [input::get\\_value\(\)](#)*
- [set\\_value](#) (\$v)  
*Mutator function wraps [input::set\\_value\(\)](#)*

### Additional Inherited Members

#### 8.5.1 Detailed Description

Adaptor to input class, adds a datalist.

### 8.5.2 Member Function Documentation

#### 8.5.2.1 `datalist_input::datalist_input ( $input, $datalist )`

Constructor.

## Parameters

input	<i>\$input</i>	The input we are wrapping
array	<i>\$datalist</i>	The list of values we want in the datalist

8.5.2.2 `datalist_input::display ( )`

Display function wraps [input::display\(\)](#)

## Returns

A string containing the formatted name value pair for this input.

## See Also

[input::display\(\)](#)

Implements [field](#).

8.5.2.3 `datalist_input::form ( $errors = array() )`

Generates the html for the input for inclusion in a form.

## Parameters

array	<i>\$errors</i>	an accoiated array errors. If the field name appears in errors, the field's label will be a class of error.
-------	-----------------	---

## Returns

array with two elements 'html' the HTML of the input field and 'js' any JavaScript that would associated with it (empty for basic input types at this time).

**Todo** fix so it doesn't require JS.

Implements [field](#).

8.5.2.4 `datalist_input::get_value ( )`

Inspector for value of input, wraps [input::get\\_value\(\)](#)

## Returns

the current value of \$this input

8.5.2.5 `datalist_input::sanitize ( )`

Sanitization function wraps [input::sanitize\(\)](#)

## See Also

[input::sanitize](#)

Implements [field](#).

8.5.2.6 `datalist_input::set_value ( $v )`

Mutator function wraps [input::set\\_value\(\)](#)



## Parameters

mixed	<code>\$v</code>	The new value of this input
-------	------------------	-----------------------------

8.5.2.7 `datalist_input::validate ( $errors = array() )`

Validation function wraps `input::valudate()`

## Parameters

array	<code>\$errors</code>	an array of errors previously in the form, errors will be added to the array and the array returned. @ return array errors is returned, possibly with errors appended.
-------	-----------------------	--

## See Also

[input::validate\(\)](#)

Implements [field](#).

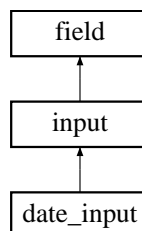
The documentation for this class was generated from the following file:

- [extended\\_inputs.inc.php](#)

8.6 `date_input` Class Reference

This convience class creates a date input.

Inheritance diagram for `date_input`:



## Public Member Functions

- [date\\_input](#) (`$label_text`, `$name`, `$value`, `$required=false`, `$min= "`, `$max= "`, `$sanity_func=null`, `$valid_func=null`)

*constructor for [date\\_input](#)*

## Additional Inherited Members

## 8.6.1 Detailed Description

This convience class creates a date input.

**Todo** Polyfill.

## 8.6.2 Member Function Documentation

8.6.2.1 `date_input::date_input ( $label_text, $name, $value, $required = false, $min = "", $max = "", $sanity_func = null, $valid_func = null )`

constructor for [date\\_input](#)

## Parameters

string	<i>\$label_text</i>	The text label for this <a href="#">zip_input</a> .
string	<i>\$name</i>	The name of this field for internal use. (i.e. the name attribute in the render HTML and/or used in form)
string	<i>\$value</i>	The current value of this input. Optional. Default is "".
bool	<i>\$required</i>	Whether or not the user is required to enter this field. This effects both HTML5 element and validation. Optional. Default is false.
string	<i>\$min</i>	a string representing the minimum date. Optional.
string	<i>\$max</i>	a string representing the maximum date. Optional.
	<i>\$sanity_func</i>	Optional function for sanitization. Default is null.
	<i>\$valid_func</i>	Optional function for validation. Default is null.

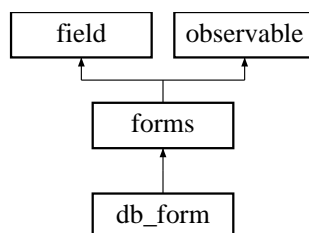
The documentation for this class was generated from the following file:

- [extended\\_inputs.inc.php](#)

## 8.7 db\_form Class Reference

Represents an HTML form, and saves form data in \$db table named by the name attribute of this object.

Inheritance diagram for db\_form:



## Public Member Functions

- [create](#) ()  
*Inserts new record into database \$db table <name>.*
- [read](#) ()  
*Reads an object back from database table <name>.*
- [update](#) ()  
*Updates the base record for this form.*
- [delete](#) ()  
*Deletes the record for this form.*
- [create\\_sql](#) ()  
*Generates and returns the SQL to create the table for this form.*

## Additional Inherited Members

## 8.7.1 Detailed Description

Represents an HTML form, and saves form data in \$db table named by the name attribute of this object.

**Todo** : decide if this is the way to do this. perhaps write the alternative method.

## 8.7.2 Member Function Documentation

### 8.7.2.1 db\_form::create ( )

Inserts new record into database \$db table <name>.

#### Precondition

\$db must be a mysqli connection and <name> must exist

### 8.7.2.2 db\_form::create\_sql ( )

Generates and returns the SQL to create the table for this form.

#### Todo

### 8.7.2.3 db\_form::delete ( )

Deletes the record for this form.

#### Precondition

\$db must be a mysqli connection and <name> must exist

#### Todo

### 8.7.2.4 db\_form::read ( )

Reads an object back from database table <name>.

#### Precondition

\$db must be a mysqli connection and <name> must exist

### 8.7.2.5 db\_form::update ( )

Updates the base record for this form.

#### Precondition

\$db must be a mysqli connection and <name> must exist

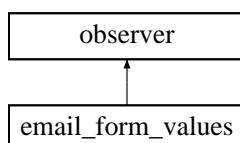
#### Todo

The documentation for this class was generated from the following file:

- [db\\_form.inc.php](#)

## 8.8 email\_form\_values Class Reference

Inheritance diagram for email\_form\_values:



## Public Member Functions

- **email\_form\_values** (\$email\_to= ", \$email\_from= ", \$email\_subject= ", \$condition=null)
- **notify** (\$event)
- **values** (\$v)
- **form** (\$the\_form)

## Public Attributes

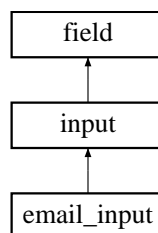
- **\$email\_to**
- **\$email\_from**
- **\$email\_subject**
- **\$condition**

The documentation for this class was generated from the following file:

- actions.inc.php

## 8.9 email\_input Class Reference

Inheritance diagram for email\_input:



## Public Member Functions

- **email\_input** (\$label\_text, \$name, \$value, \$required=false, \$maxlength= ", \$pattern= ", \$placeholder= ", \$sanity\_func=null, \$valid\_func=null)

## Additional Inherited Members

The documentation for this class was generated from the following file:

- [extended\\_inputs.inc.php](#)

## 8.10 event Class Reference

This describes an event in the observer pattern to pass information between the observable and observer.

## Public Member Functions

- **event** (&\$subject, \$event\_type, &\$parameters=null)

## Public Attributes

- **\$subject**
- **\$event\_type**
- **\$parameters**

### 8.10.1 Detailed Description

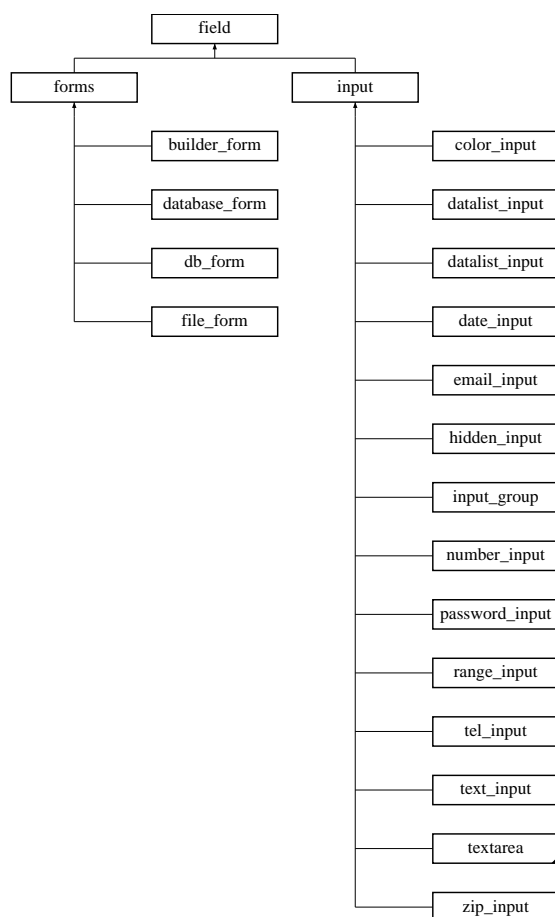
This describes an event in the observer pattern to pass information between the observable and observer.

The documentation for this class was generated from the following file:

- [event.inc.php](#)

## 8.11 field Interface Reference

Inheritance diagram for field:



## Public Member Functions

- **values** (\$values)  
*Takes an assoicated array of values and assigns the values to input fileds, and the id of this form.*
- **form** (\$errors)  
*Creates HTML output of a form or form part (input) from this field.*
- **validate** (\$errors)

*Validate the value(s) of this field, and append any errors onto the passed array.*

- [sanitize](#) ( )

*This function should sanitize the form for display and/or storage into a database.*

- [display](#) ( )

*Display the key value pairing for this object as a table.*

- [display\\_text](#) ( )

*Display the key value pairing for this object int text format.*

### 8.11.1 Member Function Documentation

#### 8.11.1.1 [field::display](#) ( )

Display the key value pairing for this object as a table.

##### Returns

the HTML representation of the field

Implemented in [datalist\\_input](#), [input](#), [forms](#), [input\\_group](#), and [hidden\\_input](#).

#### 8.11.1.2 [field::display\\_text](#) ( )

Display the key value pairing for this object int text format.

##### Returns

the text representation of the field

Implemented in [input](#), [forms](#), and [input\\_group](#).

#### 8.11.1.3 [field::form](#) ( *\$errors* )

Creates HTML output of a form or form part (input) from this field.

##### Parameters

array	<i>\$errors</i>	The errors that have been found, should be used to add error styles or display error messages.
-------	-----------------	--

##### Returns

an associated array with two element 'html' => the HTML of this object 'js' => the Javascript of this object

Implemented in [datalist\\_input](#), [builder\\_form](#), [range\\_input](#), [input](#), [forms](#), [input\\_group](#), [textarea](#), [hidden\\_input](#), and [texteditor](#).

#### 8.11.1.4 [field::sanitize](#) ( )

This function should sanitize the form for display and/or storage into a database.

##### Postcondition

the field's value should be considered 'safe'.

Implemented in [datalist\\_input](#), [input](#), [input\\_group](#), and [forms](#).

#### 8.11.1.5 [field::validate](#) ( *\$errors* )

Validate the value(s) of this field, and append any errors onto the passed array.

**Parameters**

array	<i>\$errors</i>	An array of errors already encountered (optional).
-------	-----------------	--

**Returns**

The passed array with any added errors.

Implemented in [datalist\\_input](#), [input](#), [forms](#), and [input\\_group](#).

**8.11.1.6 field::values ( *\$values* )**

Takes an associated array of values and assigns the values to input fields, and the id of this form.

**Parameters**

array	<i>\$values</i>	an associated array of values. Ignores values of keys that aren't fields in this form.
-------	-----------------	--

Implemented in [input](#), and [forms](#).

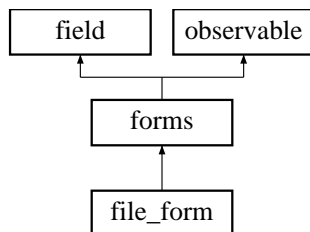
The documentation for this interface was generated from the following file:

- [field.inc.php](#)

**8.12 file\_form Class Reference**

This class represents an HTML form, it's values, how it is validated and allows to read/write form data to serialized files.

Inheritance diagram for file\_form:

**Public Member Functions**

- [serialize\\_data](#) ()  
*Serializes form values for storage in variable, cookie or file.*
- [deserialize\\_data](#) (\$s)  
*Unserializes a string, and assigns the values to the field.*
- [save](#) ()  
*Saves form data out to disk as serialized associated array.*
- [create](#) ()  
*Creates a file from this form data.*
- [read](#) ()  
*Reads the values back into.*
- [update](#) ()  
*Updates the disk copy of this form.*
- [delete](#) ()  
*Deletes the saved file containing this form.*



## Additional Inherited Members

### 8.12.1 Detailed Description

This class represents an HTML form, it's values, how it is validated and allows to read/write form data to serialized files.

### 8.12.2 Member Function Documentation

#### 8.12.2.1 file\_form::create ( )

Creates a file from this form data.

#### See Also

[file\\_form::save\(\)](#)

**Todo** get new id  
locking.

#### 8.12.2.2 file\_form::delete ( )

Deletes the saved file containg this form.

#### Returns

true if successful otherwise false.

**Todo** locking.

#### 8.12.2.3 file\_form::deserialize\_data ( \$s )

Unserializes a string, and assigns the values to the field.

#### Parameters

\$s	the serialized version of an associated array. Ignores values whose keys are not fields of this form.
-----	---

#### See Also

[file\\_form::serialize\\_data\(\)](#)  
[forms::values\(\)](#)

#### 8.12.2.4 file\_form::read ( )

Reads the values back into.

#### See Also

[file\\_form::deserialize\\_data\(\)](#)

**Todo** locking.

#### 8.12.2.5 file\_form::save ( )

Saves form data out to disk as serialized associated array.

File is saved to <form name>="">.data/<id>.frm

See Also

[file\\_form::serialize\\_data](#)

#### 8.12.2.6 file\_form::serialize\_data ( )

Serializes form values for storage in variable, cookie or file.

Returns

string of serialized array of values.

See Also

[file\\_form::deserialize\\_data\(\)](#)

#### 8.12.2.7 file\_form::update ( )

Updates the disk copy of this form.

See Also

[file\\_form::save\(\)](#)

**Todo** locking.

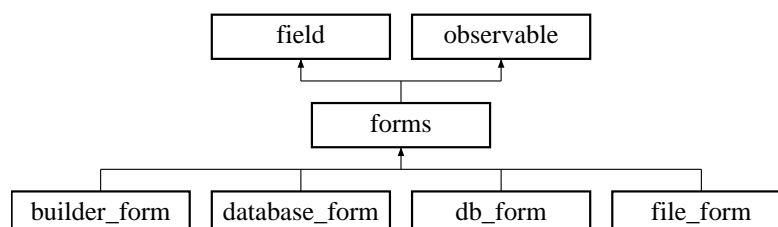
The documentation for this class was generated from the following file:

- [file\\_form.inc.php](#)

### 8.13 forms Class Reference

This class describes an HTML form, containing a collection of inputs, and does mass validation and sanitization on them.

Inheritance diagram for forms:



#### Public Member Functions

- [forms](#) (\$name, \$fields, \$id="", \$pre="")  
*Constructor for form class.*
- [form](#) (\$errors=array())

- Returns the HTML and JavaScript for this form.*
- [sanitize](#) ()  
*Sanitize field values to help protect against HTML, SQL, PHP or other injection.*
- [display](#) ()  
*Display this form's name values pairs.*
- [display\\_text](#) ()  
*Display this form's name values pairs.*
- [validate](#) (\$errors=array())  
*Validates the values of the input of the form.*
- [add\\_field](#) (field \$f)  
*Adds a field to this form.*
- [values](#) (\$values)  
*Takes an associated array of values and assigns the values to input fields, and the id of this form.*
- [notify](#) (\$event)  
*Notify observers an \$event has taken place.*
- [add\\_observer](#) (\$ob)  
*Add an observer to watch \$this object.*
- [remove\\_observer](#) (\$ob)  
*Remove an observer of \$this object.*

#### Public Attributes

- **\$name**
- **\$id**
- **\$pre**
- **\$fields**
- **\$observers**

#### 8.13.1 Detailed Description

This class describes an HTML form, containing a collection of inputs, and does mass validation and sanitization on them.

#### 8.13.2 Member Function Documentation

##### 8.13.2.1 forms::add\_field ( field \$f )

Adds a field to this form.

#### Parameters

<i>field</i>	input \$f The new input, Two fields cannot have the same name.
--------------	--

#### Returns

true if field is added

##### 8.13.2.2 forms::add\_observer ( \$ob )

Add an observer to watch \$this object.

**Parameters**

observer	<i>\$ob</i>	The object waiting for state change.
----------	-------------	--------------------------------------

Implements [observable](#).

**8.13.2.3 forms::display ( )**

Display this form's name values pairs.

**Returns**

string containing an HTML table of values.

Implements [field](#).

**8.13.2.4 forms::display\_text ( )**

Display this form's name values pairs.

**Returns**

string containing an txt table of values.

Implements [field](#).

**8.13.2.5 forms::form ( *\$errors* = array() )**

Returns the HTML and JavaScript for this form.

**Parameters**

<i>\$errors</i>	an array of errors, used to add class to fields which have an error
-----------------	---

**Returns**

array of strings with 'html' => the HTML of the form, and 'js' => any JS the form elements may need

**See Also**

[input::form\(\)](#)

Implements [field](#).

**8.13.2.6 forms::forms ( *\$name*, *\$fields*, *\$id* = "", *\$pre* = " " )**

Constructor for form class.

**Parameters**

string	<i>\$name</i>	The name of form.
array	<i>\$fields</i>	The fields of the form, as an array of input objects.

**8.13.2.7 forms::notify ( *\$event* )**

Notify observers an *\$event* has taken place.

## Parameters

<i>\$event</i>	The event that's occurred.
----------------	----------------------------

Implements [observable](#).

8.13.2.8 forms::remove\_observer ( *\$ob* )

Remove an observer of \$this object.

## Parameters

observer	<i>\$ob</i>	The observer we want to remove.
----------	-------------	---------------------------------

## Returns

True if found and removed, false if not.

Implements [observable](#).

## 8.13.2.9 forms::sanitize ( )

Sanitize field values to help protect against HTML, SQL, PHP or other injection.

## Returns

bool true if form could be sanitized, returns false if input was too mangled to sanitize.

Implements [field](#).

8.13.2.10 forms::validate ( *\$errors* = array() )

Validates the values of the input of the form.

## Parameters

<i>\$errors</i>	an optional array to chain form validation with other inputs and forms.
-----------------	---

## Returns

*\$errors* the passed array with new errors encountered.

Implements [field](#).

8.13.2.11 forms::values ( *\$values* )

Takes an associated array of values and assigns the values to input fields, and the id of this form.

## Parameters

array	<i>\$values</i>	an associated array of values. Ignores values of keys that aren't fields in this form.
-------	-----------------	--

Implements [field](#).

The documentation for this class was generated from the following file:

- [forms.inc.php](#)

## 8.14 fund\_item Class Reference

#### Public Member Functions

- **fund\_item** (\$pre= ", \$fund\_item\_id= ", \$pcard= ", \$tcard= ", \$cash= ")
- **sanitize** ()
- **validate** (\$errors=array())
- **form** (\$errors=array())
- **create** ()
- **read** ()
- **update** ()
- **delete** ()

#### Public Attributes

- **\$fund\_item\_id**
- **\$pcard**
- **\$tcard**
- **\$cash**
- **\$pre**

The documentation for this class was generated from the following file:

- request.inc.php

### 8.15 funding Class Reference

#### Public Member Functions

- **funding** (\$pre= ", \$fund\_id= ", \$fund= ", \$org= ", \$program= ", account= ", amount= ")
- **sanitize** ()
- **validate** (\$errors=array())
- **form** (\$errors=array())
- **create** ()
- **read** ()
- **update** ()
- **delete** ()

#### Public Attributes

- **\$funding\_id**
- **\$fund**
- **\$org**
- **\$program**
- **\$account**
- **\$amount**
- **\$pre**

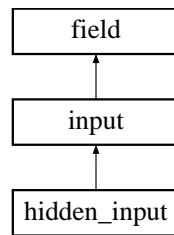
The documentation for this class was generated from the following file:

- request.inc.php

## 8.16 `hidden_input` Class Reference

The class `hidden_input` describes a form element, it's attributes and how it is validated and sanitized.

Inheritance diagram for `hidden_input`:



### Public Member Functions

- `hidden_input` (`$name`, `$value=` ", `$sanity_func=null`, `$valid_func=null`)  
*Constructor, creates an `hidden_input` object.*
- `form` (`$errors=array()`)  
*Generates the html for the `hidden_input` for inclusion in a form.*
- `display` ()  
*Display the name value pair.*

### Additional Inherited Members

#### 8.16.1 Detailed Description

The class `hidden_input` describes a form element, it's attributes and how it is validated and sanitized.

Meant to be used with the class forms or it's dervative classes.

#### 8.16.2 Member Function Documentation

##### 8.16.2.1 `hidden_input::display ( )`

Display the name value pair.

##### Returns

A string containing the formatted name value pair for this `hidden_input`.

Implements `field`.

##### 8.16.2.2 `hidden_input::form ( $errors = array() )`

Generates the html for the `hidden_input` for inclusion in a form.

##### Parameters

array	<code>\$errors</code>	an accoiated array errors. If the field name appears in errors, the field's label will be a class of error.
-------	-----------------------	---

##### Returns

array with two elements 'html' the HTML of the `hidden_input` field and 'js' any JavaScript that would assoicated with it (empty for basic `hidden_input` types at this time).

Implements `field`.

8.16.2.3 `hidden_input::hidden_input( $name, $value = "", $sanity_func = null, $valid_func = null )`

Constructor, creates an `hidden_input` object.



## Parameters

string	<i>\$name</i>	The name of the field used to identify this field in the database, and in the form.
mixed	<i>\$value</i>	The current value of the field.
mixed	<i>\$sanity_func</i>	A function run on this element to sanitize it, if null will use default sanitation and validation using attributes above.
mixed	<i>\$valid_func</i>	A function run on this element to validate it, if null will use default sanitation and validation using attributes above.

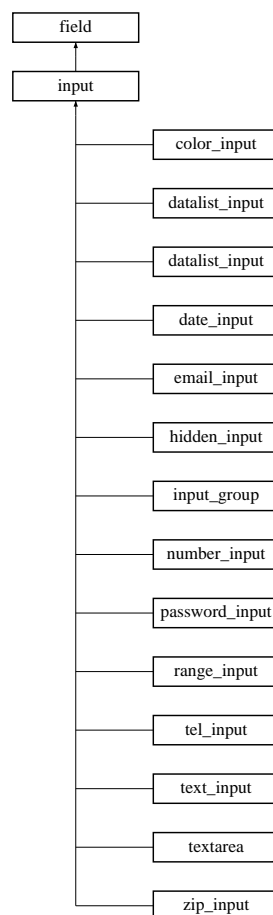
The documentation for this class was generated from the following file:

- [hidden\\_input.inc.php](#)

## 8.17 input Class Reference

The class input describes a form element, it's attributes and how it is validated and sanitized.

Inheritance diagram for input:



## Public Member Functions

- [input](#) (\$label\_text, \$name, \$type= 'text', \$value= "", \$required=false, \$maxlength= "", \$min= "", \$max= "", \$pattern= "", \$placeholder= "", \$sanity\_func=null, \$valid\_func=null)  
*Constructor, creates an input object.*
- [form](#) (\$errors=array())  
*Generates the html for the input for inclusion in a form.*

- [display \(\)](#)  
*Display the name value pair.*
- [display\\_text \(\)](#)  
*Display the name value pair.*
- [sanitize \(\)](#)  
*Sanitizes value to help protect against HTML, SQL, PHP or other injections.*
- [validate \(\\$errors=array\(\)\)](#)  
*Validates input's value, and adds errors to the \$errors array if the value isn't valid, based on the attributes of this object or the input's valid\_func.*
- [get\\_value \(\)](#)  
*Inspector function for this input's value \$return The current value of this input.*
- [set\\_value \(\\$v\)](#)  
*Mutator function for this input's value.*
- [values \(\\$values\)](#)  
*Takes an assoicated array of values and assigns the values to input fields, and the id of this form.*

#### Public Attributes

- **\$label\_text**
- **\$name**
- **\$type**
- **\$value**
- **\$min**
- **\$max**
- **\$maxlength**
- **\$pattern**
- **\$required**
- **\$placeholder**
- **\$sanity\_func**
- **\$valid\_func**

#### 8.17.1 Detailed Description

The class input describes a form element, it's attributes and how it is validated and sanitized.

Meant to be used with the class forms or it's derivative classes.

#### 8.17.2 Member Function Documentation

##### 8.17.2.1 [input::display \( \)](#)

Display the name value pair.

##### Returns

A string containing the HTML formatted name value pair for this input.

Implements [field](#).

##### 8.17.2.2 [input::display\\_text \( \)](#)

Display the name value pair.

##### Returns

A string containing the TEXT formatted name value pair for this input.

Implements [field](#).

8.17.2.3 `input::form ( $errors = array() )`

Generates the html for the input for inclusion in a form.

## Parameters

array	<i>\$errors</i>	an accoiated array errors. If the field name appears in errors, the field's label will be a class of error.
-------	-----------------	---

## Returns

array with two elements 'html' the HTML of the input field and 'js' any JavaScript that would assoociated with it (empty for basic input types at this time).

Implements [field](#).

8.17.2.4 `input::input ( $label_text, $name, $type = 'text', $value = "", $required = false, $maxlength = "", $min = "", $max = "", $pattern = "", $placeholder = "", $sanity_func = null, $valid_func = null )`

Constructor, creates an input object.

## Parameters

string	<i>\$label_text</i>	The text label on the form field.
string	<i>\$name</i>	The name of the field used to identify this field in the database, and in the form.
string	<i>\$type</i>	The type of input, should be a valid HTML type.
mixed	<i>\$value</i>	The current value of the field.
bool	<i>\$required</i>	Boolean value, weather or not the user is required to enter a value for the field.
mixed	<i>\$maxlength</i>	The maximum characters this field's value can have, and still be valid. null or empty string will make this be ignored.
mixes	<i>\$min</i>	The minimum value allowed for this input, when type is date, time or some type that has a numeric value. null or empty string willl make this be ignored.
string	<i>\$pattern</i>	The regex pattern that this field's value must match to be valid. null or empty string will make this ignored.
string	<i>\$placeholder</i>	The placeholder text for this item. null or empty string will suppress this attribute from being printed.
mixed	<i>\$sanity_func</i>	A function run on this element to sanitize it, if null will use default sanitation and validation using attributes above.
mixed	<i>\$valid_func</i>	A function run on this element to validate it, if null will use default sanitation and validation using attributes above.

8.17.2.5 `input::sanitize ( )`

Sanitizes value to help protect against HTML, SQL, PHP or other injections.

Returns false if the value can't be cleaned in a sensible way.

## Returns

mixed often the value of the field or true if sanitization occurred properly, but false if we are unable to sanitize. Use identical test '===' instaead of equality as input may have values of " or 0.

Implements [field](#).

8.17.2.6 `input::set_value ( $v )`

Mutator function for this input's value.

**Parameters**

mixed	<code>\$v</code>	The new value of this input #post The value of this input will be set to \$v
-------	------------------	--

**8.17.2.7 `input::validate ( $errors = array() )`**

Validates input's value, and adds errors to the `$errors` array if the value isn't valid, based on the attributes of this object or the input's `valid_func`.

**Parameters**

array	<code>\$errors</code>	an array of errors previously in the form, errors will be added to the array and the array returned.
-------	-----------------------	--

**Returns**

array errors is returned, possibly with errors appended.

Implements [field](#).

**8.17.2.8 `input::values ( $values )`**

Takes an associated array of values and assigns the values to input fields, and the id of this form.

**Parameters**

array	<code>\$values</code>	an associated array of values. Ignores values of keys that aren't fields in this form.
-------	-----------------------	--

Implements [field](#).

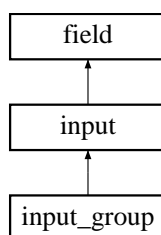
The documentation for this class was generated from the following file:

- [input.inc.php](#)

**8.18 `input_group` Class Reference**

Defines a group of related inputs like radio buttons or checkboxes that have the same name, but different values.

Inheritance diagram for `input_group`:

**Public Member Functions**

- [input\\_group](#) (`$label_text`, `$name`, `$value_list`, `$type= 'checkbox'`, `$value= ''`, `$required= ''`, `$placeholder= ''`, `$sanity_func=null`, `$valid_func=null`)  
*Constructor for [input\\_group](#) object.*
- [form](#) (`$errors=array()`)  
*Generates the HTML for this input to be included in a form.*
- [display](#) ()

- [display\\_text](#) ()  
*Display the name value pair.*
- [sanitize](#) ()  
*Sanitize this form's values.*
- [validate](#) (\$errors=array())  
*Validate this form's values.*

#### Public Attributes

- **\$value\_list**

#### 8.18.1 Detailed Description

Defines a group of related inputs like radio buttons or checkboxes that have the same name, but different values.

#### 8.18.2 Member Function Documentation

##### 8.18.2.1 input\_group::display ( )

Display the name value pair.

#### Returns

A string containing the HTML formatted name value pair for this input.

Implements [field](#).

##### 8.18.2.2 input\_group::display\_text ( )

Display the name value pair.

#### Returns

A string containing the text formatted name value pair for this input.

Implements [field](#).

##### 8.18.2.3 input\_group::form ( \$errors = array() )

Generates the HTML for this input to be included in a form.

#### Parameters

array	\$errors	an array of accumulated errors.
-------	----------	---------------------------------

#### Returns

array with two elements 'html'=> The HTML for the object, 'js' => Any JS for the element (currently none).

Implements [field](#).

##### 8.18.2.4 input\_group::input\_group ( \$label\_text, \$name, \$value\_list, \$type = 'checkbox', \$value = "", \$required = "", \$placeholder = "", \$sanity\_func = null, \$valid\_func = null )

Constructor for [input\\_group](#) object.

## Parameters

<i>\$label_text</i>	The label for the group, will be displayed as the legend in the rendered html.
<i>\$name</i>	The name of the item in html, and the fields of the form.
<i>\$value_list</i>	the values for the input tags.
<i>\$type</i>	the HTML type of input each will be.
<i>\$value</i>	an array or single value, the currently checked/activated inputs.
<i>\$required</i>	boolean on whether or not a selection is required.
<i>\$placeholder</i>	The placeholder text for this item. null or empty string will suppress this attribute from being printed.
<i>\$sanity_func</i>	A function run on this element to sanitize it, if null will use default sanitation and validation using attributes above.
<i>\$valid_func</i>	A function run on this element to validate it, if null will use default sanitation and validation using attributes above.

**Todo** work out required, and single values.

#### 8.18.2.5 `input_group::sanitize ( )`

Sanitize this form's values.

**Todo** Write this.

**Bug** always returns true.

Implements [field](#).

#### 8.18.2.6 `input_group::validate ( $errors = array() )`

Validate this form's values.

**Todo** Write this.

**Bug** always returns true.

Implements [field](#).

The documentation for this class was generated from the following file:

- [input\\_group.inc.php](#)

## 8.19 message Class Reference

### Public Member Functions

- **message** (\$msg, \$condition=null)
- **notify** ([\\$event](#))
- **values** (\$v)
- **form** (\$the\_form)

### Public Attributes

- **\$msg**
- **\$condition**

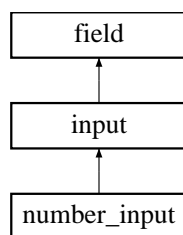
The documentation for this class was generated from the following file:

- [actions.inc.php](#)

## 8.20 number\_input Class Reference

This convenience class allows easy creation of an input with type="number".

Inheritance diagram for number\_input:



### Public Member Functions

- [number\\_input](#) (*\$label\_text*, *\$name*, *\$value*, *\$required=false*, *\$min= "*, *\$max= "*, *\$placeholder= "*, *\$sanity\_func=null*, *\$valid\_func=null*)  
*Constructor for [number\\_input](#).*
- [get\\_value](#) ()  
*Inspector for the value of this input.*
- [set\\_value](#) (\$v)  
*Mutator for the value of this input.*

### Additional Inherited Members

#### 8.20.1 Detailed Description

This convenience class allows easy creation of an input with type="number".

#### 8.20.2 Member Function Documentation

##### 8.20.2.1 number\_input::get\_value ( )

Inspector for the value of this input.

##### Returns

mixed The value of this input.

##### 8.20.2.2 number\_input::number\_input ( *\$label\_text*, *\$name*, *\$value*, *\$required = false*, *\$min = "*, *\$max = "*, *\$placeholder = "*, *\$sanity\_func = null*, *\$valid\_func = null* )

Constructor for [number\\_input](#).

##### Parameters

<i>\$label_text</i>	The text label for this <a href="#">number_input</a> .
<i>\$name</i>	The name of this field for internal use. (i.e. the name attribute in the render HTML and/or used in form)

<code>\$value</code>	The current value of this input. Optional. Default is "".
<code>\$required</code>	Whether or not the user is required to enter this field. This effects both HTML5 element and validation. Optional. Default is false.
<code>\$min</code>	The minium value this <a href="#">number_input</a> allows, used in validation and HTML5 min attribute. Optional. If not set, or set to "", this attribute is ignored.
<code>\$max</code>	The maximum value this <a href="#">number_input</a> allows, used in validation and HTML5 max attribute. Optional. If not set, or set to "", this attribute is ignored.
<code>\$placeholder</code>	This is used for the HTML5 placeholder attribute. Optional. Default is false.
<code>\$sanity_func</code>	Optional function for sanitization. Default is null.
<code>\$valid_func</code>	Optional function for validation. Default is null.

### 8.20.2.3 `number_input::set_value ( $v )`

Mutator for the value of this input.

Parameters

mixed	<code>\$v</code>	The new value of this input
-------	------------------	-----------------------------

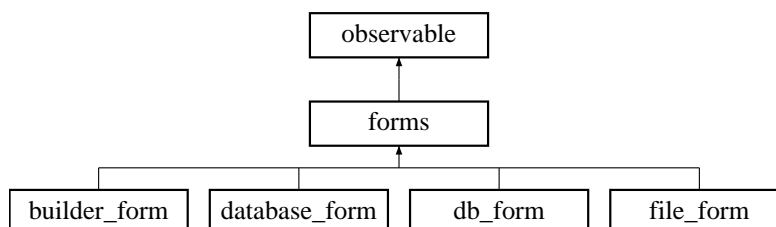
The documentation for this class was generated from the following file:

- [extended\\_inputs.inc.php](#)

## 8.21 observable Interface Reference

Describes objects that are able to be observed by observer objects.

Inheritance diagram for observable:



### Public Member Functions

- [notify](#) ([\\$event](#))  
*Notify observers an \$event has taken place.*
- [add\\_observer](#) ([\\$ob](#))  
*Add an observer to watch \$this object.*
- [remove\\_observer](#) ([\\$ob](#))  
*Remove an observer of \$this object.*

### 8.21.1 Detailed Description

Describes objects that are able to be observed by observer objects.

### 8.21.2 Member Function Documentation



#### 8.21.2.1 observable::add\_observer ( *\$ob* )

Add an observer to watch \$this object.

**Parameters**

observer	<i>\$ob</i>	The object waiting for state change.
----------	-------------	--------------------------------------

Implemented in [forms](#).

**8.21.2.2 observable::notify ( *\$event* )**

Notify observers an *\$event* has taken place.

**Parameters**

<i>\$event</i>	The event that's occurred.
----------------	----------------------------

Implemented in [forms](#).

**8.21.2.3 observable::remove\_observer ( *\$ob* )**

Remove an observer of *\$this* object.

**Parameters**

observer	<i>\$ob</i>	The observer we want to remove.
----------	-------------	---------------------------------

Implemented in [forms](#).

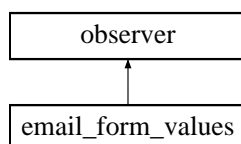
The documentation for this interface was generated from the following file:

- [observable.inc.php](#)

**8.22 observer Class Reference**

Implements the observer in the observer patterns.

Inheritance diagram for observer:

**Public Member Functions**

- [observer](#) (*\$f*)  
*Constructor for the observer class.*
- [set\\_func](#) (*\$f*)  
*Mutator function, to change the function that is called when the event is fired.*
- [notify](#) (*\$event*)  
*Take action.*

**8.22.1 Detailed Description**

Implements the observer in the observer patterns.

## 8.22.2 Member Function Documentation

## 8.22.2.1 observer::notify ( \$event )

Take action.

Called when an event is fired.

Parameters

event	\$event	The event that just occurred.
-------	---------	-------------------------------

## 8.22.2.2 observer::observer ( \$f )

Constructor for the observer class.

Parameters

function	\$f	The function to call when an event is fired.
----------	-----	--

## 8.22.2.3 observer::set\_func ( \$f )

Mutator function, to change the function that is called when the event is fired.

Parameters

function	\$f	The function to call when an event is fired.
----------	-----	--

The documentation for this class was generated from the following file:

- [observer.inc.php](#)

## 8.23 page Class Reference

Holds the code to add to the head and foot.

## Public Member Functions

- [page](#) (\$title)  
*Constructor for the page object.*
- [add\\_script](#) (\$js)  
*Adds a JavaScript file to the foot of this document Files add using this function will be added to the foot before script added with [page::set\\_js\(\)](#) and [page::append\\_js\(\)](#)*
- [set\\_scripts](#) (\$js)  
*Sets the JS files to be included (outside of the features added), replacing the current value.*
- [add\\_css](#) (\$css)  
*Adds a CSS file to the head of this document.*
- [set\\_css](#) (\$css)  
*Sets the CSS files to be included (outside of the features added), replacing the current value.*
- [set\\_js](#) (\$js)  
*Sets the small script on the page, replacing any previously set or appended JavaScript.*
- [append\\_js](#) (\$js)  
*Append to the JavaScript on this page.*
- [add\\_feature](#) (\$fid)  
*Adds a feature to the page.*
- [set\\_features](#) (\$fid)  
*Sets the features on this page, replacing the current features.*

- `set_content ($c)`  
*Sets the content of the page.*
- `set_site_id ($sid)`  
*The site id you'd like to track this page under in Piwik.*
- `set_google_analytics ($gac)`  
*The analytics codes you'd like to track this page with.*
- `head ()`
- `foot ()`
- `render ()`

### 8.23.1 Detailed Description

Holds the code to add to the head and foot.

You can call the head and a foot and fill in the middle like this. [Example 1](#) | [Example 2](#) | [Example 3](#)

**Todo** Finish class.

create forms\_page object. And derive a database\_forms\_page object from it.

### 8.23.2 Member Function Documentation

#### 8.23.2.1 `page::add_css ( $css )`

Adds a CSS file to the head of this document.

Parameters

string	<i>\$css</i>	a CSS file to add to this document.
--------	--------------	-------------------------------------

Returns

false if \$css doesn't evaluate to a string, and true if \$js is added

#### 8.23.2.2 `page::add_feature ( $fid )`

Adds a feature to the page.

Parameters

int	<i>\$fid</i>	the feature id you want to add. Available are: GOOGLE_ANALYTICS, PIWIK, FORMS
-----	--------------	---

Postcondition

calls to `page::head()` and `page::foot()` will include the code for the past feature.

Returns

false if \$fid isn't valid, otherwise `$this`.

#### 8.23.2.3 `page::add_script ( $js )`

Adds a JavaScript file to the foot of this document Files add using this function will be added to the foot before script added with `page::set_js()` and `page::append_js()`

## Parameters

string	<i>\$js</i>	a JavaScript file to add to this document.
--------	-------------	--

## Returns

false if *\$js* doesn't evaluate to a string, and true if *\$js* is added

8.23.2.4 page::append\_js ( *\$js* )

Append to the JavaScript on this page.

## Parameters

string	<i>\$js</i>	The code you'd like to append.
--------	-------------	--------------------------------

## Returns

false if *\$js* is not a string, *\$this* otherwise.

8.23.2.5 page::page ( *\$title* )

Constructor for the page object.

## Parameters

string	<i>\$title</i>	The title of this page
--------	----------------	------------------------

8.23.2.6 page::set\_content ( *\$c* )

Sets the content of the page.

## Parameters

string	<i>\$c</i>	The HTML body of the page.
--------	------------	----------------------------

## Returns

false if *\$c* is not a string, otherwise *\$this*

**Todo** validation of types.

8.23.2.7 page::set\_css ( *\$css* )

Sets the CSS files to be included (outside of the features added), replacing the current value.

## Parameters

array	<i>\$css</i>	an array of filenames
-------	--------------	-----------------------

## Returns

false if *\$css* is not an array, otherwise *\$this*

8.23.2.8 page::set\_features ( *\$fid* )

Sets the features on this page, replacing the current features.

**Parameters**

array	<i>\$fid</i>	an array of feature ids
-------	--------------	-------------------------

**See Also**

[page::add\\_feature\(\)](#)

**Returns**

false if \$fid is not an array or has a bad feature id, otherwise returns `$this`

**8.23.2.9 page::set\_google\_analytics ( \$gac )**

The analytics codes you'd like to track this page with.

**Precondition**

For this to work, GOOGLE\_ANALYTICS must be a feature of this page.

**Parameters**

string	<i>\$gac</i>	
--------	--------------	--

**Todo** verification of types

**8.23.2.10 page::set\_js ( \$js )**

Sets the small script on the page, replacing any previously set or appended JavaScript.

**Parameters**

string	<i>\$js</i>	The js you would like on this page.
--------	-------------	-------------------------------------

**Returns**

false if \$js is not a string, `$this` otherwise.

**8.23.2.11 page::set\_scripts ( \$js )**

Sets the JS files to be included (outside of the features added), replacing the current value.

Files added using this function will be added to the foot before script added with [page::set\\_js\(\)](#) and [page::append\\_js\(\)](#)

**Parameters**

array	<i>\$js</i>	an array of filenames
-------	-------------	-----------------------

**Returns**

false if \$js is not an array, otherwise `$this`

**8.23.2.12 page::set\_site\_id ( \$sid )**

The site id you'd like to track this page under in Piwik.

**Precondition**

For this to have an effect it requires PIWIK to be a feature of this page.

## Parameters

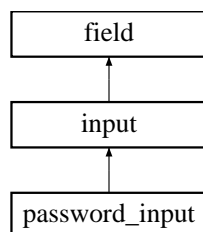
int	<i>\$sid</i>	The sight ID in Piwik
-----	--------------	-----------------------

The documentation for this class was generated from the following file:

- [page.inc.php](#)

## 8.24 password\_input Class Reference

Inheritance diagram for password\_input:



## Public Member Functions

- **password\_input** (\$label\_text, \$name, \$value, \$required=false, \$maxlength= "", \$pattern= "", \$placeholder= "", \$sanity\_func=null, \$valid\_func=null)

## Additional Inherited Members

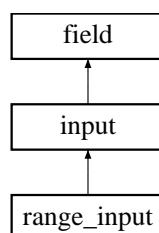
The documentation for this class was generated from the following file:

- [extended\\_inputs.inc.php](#)

## 8.25 range\_input Class Reference

Represents a slider element, an input with type="range".

Inheritance diagram for range\_input:



## Public Member Functions

- **range\_input** (\$label\_text, \$name, \$value, \$min= "", \$max= "", \$step= "", \$placeholder= "", \$sanity\_func=null, \$valid\_func=null)  
*Constructor for [range\\_input](#).*
- **form** (\$errors=array())  
*Creates HTML output of a form or form part (input) from this field.*

## Public Attributes

- **\$step**

## 8.25.1 Detailed Description

Represents a slider element, an input with type="range".

## 8.25.2 Member Function Documentation

8.25.2.1 `range_input::form ( $errors = array() )`

Creates HTML output of a form or form part (input) from this field.

## Parameters

array	<i>\$errors</i>	The errors that have been found, should be used to add error styles or display error messages.
-------	-----------------	--

## Returns

an associated array with two element 'html' => the HTML of this object 'js' => the Javascript of this object

Implements [field](#).

8.25.2.2 `range_input::range_input ( $label_text, $name, $value, $min = "", $max = "", $step = "", $placeholder = "", $sanity_func = null, $valid_func = null )`

Constructor for [range\\_input](#).

## Parameters

<i>\$label_text</i>	The text label for this <a href="#">range_input</a> .
<i>\$name</i>	The name of this field for internal use. (i.e. the name attribute in the render HTML and/or used in form)
<i>\$value</i>	The current value of this input. Optional. Default is "".
<i>\$min</i>	The minium value this <a href="#">number_input</a> allows, used in validation and HTML5 min attribute. Optional. If not set, or set to "", this attribute is ignored.
<i>\$max</i>	The maximum value this <a href="#">number_input</a> allows, used in validation and HTML5 max attribute. Optional. If not set, or set to "", this attribute is ignored.
<i>\$step</i>	This is the HTML5 step attribute. Optional. If not set, or set to "", this attribute is ignored.
<i>\$placeholder</i>	This is used for the HTML5 placeholder attribute. Optional. Default is false.
<i>\$sanity_func</i>	Optional function for sanitization. Default is null.
<i>\$valid_func</i>	Optional function for validation. Default is null.

The documentation for this class was generated from the following file:

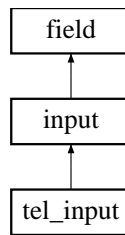
- [extended\\_inputs.inc.php](#)

8.26 `tel_input` Class Reference

This represents a telephone number input, has regex sanitization and validation to ensure valid format for phone 7 or 10 digit phone number.

Inheritance diagram for `tel_input`:





## Public Member Functions

- [tel\\_input](#) (*\$label\_text*, *\$name*, *\$value* = "", *\$required*=false, *\$placeholder*="(XXX) XXX-XXXX", *\$sanity\_func*=null, *\$valid\_func*=null)

Constructor for [tel\\_input](#) object.

## Additional Inherited Members

### 8.26.1 Detailed Description

This represents a telephone number input, has regex sanitization and validation to ensure valid format for phone 7 or 10 digit phone number.

### 8.26.2 Member Function Documentation

**8.26.2.1** `tel_input::tel_input ( $label_text, $name, $value = "", $required = false, $placeholder = "(XXX) XXX-XXXX", $sanity_func = null, $valid_func = null )`

Constructor for [tel\\_input](#) object.

#### Parameters

<i>\$label_text</i>	The text label for this <a href="#">tel_input</a> .
<i>\$name</i>	The name of this field for internal use. (i.e. the name attribute in the render HTML and/or used in form)
<i>\$value</i>	The current value of this input. Optional. Default is "".
<i>\$required</i>	Whether or not the user is required to enter this field. This effects both HTML5 element and validation. Optional. Default is false.
<i>\$placeholder</i>	This is used for the HTML5 placeholder attribute. Optional. Default is false.
<i>\$sanity_func</i>	Optional function for sanitization. Default is null.
<i>\$valid_func</i>	Optional function for validation. Default is null.

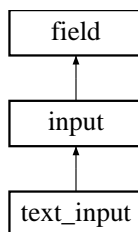
The documentation for this class was generated from the following file:

- [extended\\_inputs.inc.php](#)

## 8.27 text\_input Class Reference

convenience function for creating text inputs

Inheritance diagram for text\_input:



#### Public Member Functions

- **text\_input** (\$label\_text, \$name, \$value, \$required=false, \$maxlength= "", \$pattern= "", \$placeholder= "", \$sanity\_func=null, \$valid\_func=null)

#### Additional Inherited Members

##### 8.27.1 Detailed Description

convenience function for creating text inputs

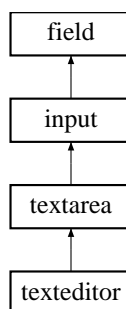
The documentation for this class was generated from the following file:

- [extended\\_inputs.inc.php](#)

## 8.28 textarea Class Reference

Describes a textarea, it's sanitization and validation.

Inheritance diagram for textarea:



#### Public Member Functions

- **textarea** (\$label\_text, \$name, \$value= "", \$required=false, \$maxlength= "", \$sanity\_func=null, \$valid\_func=null)  
*Constructor, creates a text\_area object.*
- **form** (\$errors=array())  
*Generates the html for the textarea for inclusion in a form.*

#### Additional Inherited Members

##### 8.28.1 Detailed Description

Describes a textarea, it's sanitization and validation.

## 8.28.2 Member Function Documentation

8.28.2.1 textarea::form ( *\$errors* = array() )

Generates the html for the textarea for inclusion in a form.

## Parameters

array	<i>\$errors</i>	an accoiated array errors. If the field name appears in errors, the field's label will be a class of error.
-------	-----------------	---

## Returns

array with two elements 'html' the HTML of the input field and 'js' any JavaScript that would assoicated with it (empty for basic input types at this time).

Implements [field](#).

8.28.2.2 textarea::textarea ( *\$label\_text*, *\$name*, *\$value* = "", *\$required* = false, *\$maxlength* = "", *\$sanity\_func* = null, *\$valid\_func* = null )

Constructor, creates a text\_area object.

## Parameters

string	<i>\$label_text</i>	The text label on the form field.
string	<i>\$name</i>	The name of the field used to identify this field in the database, and in the form.
mixed	<i>\$value</i>	The current value of the field.
bool	<i>\$required</i>	Boolean value, weather or not the user is required to enter a value for the field.
mixed	<i>\$maxlength</i>	The maximum characters this field's value can have, and still be valid. null or empty string will make this be ignored.
mixed	<i>\$sanity_func</i>	A function run on this element to sanitize it, if null will use default sanitation and validation using attributes above.
mixed	<i>\$valid_func</i>	A function run on this element to validate it, if null will use default sanitation and validation using attributes above.

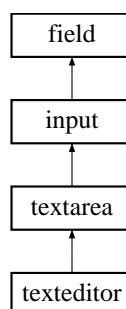
The documentation for this class was generated from the following file:

- [textarea.inc.php](#)

## 8.29 texteditor Class Reference

This is a form element wrapping the testarea with javascript to turn it into a rich text editor.

Inheritance diagram for texteditor:



## Public Member Functions

- **texteditor** (\$label\_text, \$name, \$value= "", \$required=false, \$maxlength= "", \$sanity\_func=null, \$valid\_func=null)
- **form** (\$errors)

*Creates HTML output of a form or form part (input) from this field.*

## Additional Inherited Members

### 8.29.1 Detailed Description

This is a form element wrapping the testarea with javascript to turn it into a rich text editor.

### 8.29.2 Member Function Documentation

#### 8.29.2.1 texteditor::form ( \$errors )

Creates HTML output of a form or form part (input) from this field.

#### Parameters

array	\$errors	The errors that have been found, should be used to add error styles or display error messages.
-------	----------	--

#### Returns

an associated array with two element 'html' => the HTML of this object 'js' => the Javascript of this object

Implements [field](#).

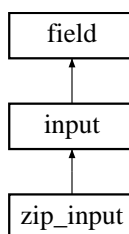
The documentation for this class was generated from the following file:

- [texteditor.inc.php](#)

## 8.30 zip\_input Class Reference

This convenience class creates a text input with validation for long or short form US zip codes.

Inheritance diagram for zip\_input:



## Public Member Functions

- **zip\_input** (\$label\_text, \$name, \$value, \$required=false, \$placeholder="XXXXX[-XXXX]", \$sanity\_func=null, \$valid\_func=null)

*Constructor for [zip\\_input](#).*

## Additional Inherited Members

## 8.30.1 Detailed Description

This convenience class creates a text input with validation for long or short form US zip codes.

## 8.30.2 Member Function Documentation

8.30.2.1 `zip_input::zip_input ( $label_text, $name, $value, $required = false, $placeholder = "XXXXXX[-XXXX] ", $sanity_func = null, $valid_func = null )`

Constructor for [zip\\_input](#).

## Parameters

<code>\$label_text</code>	The text label for this <a href="#">zip_input</a> .
<code>\$name</code>	The name of this field for internal use. (i.e. the name attribute in the render HTML and/or used in form)
<code>\$value</code>	The current value of this input. Optional. Default is "".
<code>\$required</code>	Whether or not the user is required to enter this field. This effects both HTML5 element and validation. Optional. Default is false.
<code>\$placeholder</code>	This is used for the HTML5 placeholder attribute. Optional. Default is false.
<code>\$sanity_func</code>	Optional function for sanitization. Default is null.
<code>\$valid_func</code>	Optional function for validation. Default is null.

The documentation for this class was generated from the following file:

- [extended\\_inputs.inc.php](#)

## 9 File Documentation

### 9.1 crud.inc.php File Reference

Contains the interface for crud.

## Classes

- interface [crud](#)

*Describes an object that knows how to Create, Read, Update and Delete itself.*

#### 9.1.1 Detailed Description

Contains the interface for crud.

### 9.2 database\_form.inc.php File Reference

## Classes

- class [database\\_form](#)

*This class allows the both the structure and the data for this form to be written out to a database.*

## Variables

- const **PRE\_CREATE** 13
- const **POST\_CREATE** 14
- const **PRE\_READ** 15
- const **POST\_READ** 16
- const **PRE\_UPDATE** 17
- const **POST\_UPDATE** 18
- const **PRE\_DELETE** 19
- const **POST\_DELETE** 20
- const **PRE\_CREATE\_FORM** 21
- const **POST\_CREATE\_FORM** 22
- const **PRE\_READ\_FORM** 23
- const **POST\_READ\_FORM** 24
- const **PRE\_UPDATE\_FORM** 25
- const **POST\_UPDATE\_FORM** 26
- const **PRE\_DELETE\_FORM** 27
- const **POST\_DELETE\_FORM** 28
- const **PRE\_DISPLAY\_TABLE** 29
- const **POST\_DISPLAY\_TABLE** 30

### 9.2.1 Detailed Description

#### Author

Jeremy Streich

## 9.3 db\_form.inc.php File Reference

Contains [db\\_form](#) class.

### Classes

- class [db\\_form](#)  
*Represents an HTML form, and saves form data in \$db table named by the name attribute of this object.*

### 9.3.1 Detailed Description

Contains [db\\_form](#) class.

#### Author

Jeremy Streich

## 9.4 event.inc.php File Reference

This file contains the event class.

### Classes

- class [event](#)  
*This describes an event in the observer pattern to pass information between the observable and observer.*

#### 9.4.1 Detailed Description

This file contains the event class.

### 9.5 `extended_inputs.inc.php` File Reference

#### Classes

- class `text_input`  
*convenience function for creating text inputs*
- class `password_input`
- class `email_input`
- class `number_input`  
*This convenience class allows easy creation of an input with type="number".*
- class `range_input`  
*Represents a slider element, an input with type="range".*
- class `tel_input`  
*This represents a telephone number input, has regex sanitization and validation to ensure valid format for phone 7 or 10 digit phone number.*
- class `zip_input`  
*This convenience class creates a text input with validation for long or short form US zip codes.*
- class `color_input`  
*This convenience class creates a color input with validation and sanitization.*
- class `date_input`  
*This convenience class creates a date input.*
- class `datalist_input`  
*Adaptor to input class, adds a datalist.*

#### 9.5.1 Detailed Description

##### Author

Jeremy Streich

### 9.6 `field.inc.php` File Reference

Contains the field interface.

#### Classes

- interface `field`

#### 9.6.1 Detailed Description

Contains the field interface.

### 9.7 `file_form.inc.php` File Reference

This file contains the class `file_form`.

## Classes

- class [file\\_form](#)

*This class represents an HTML form, it's values, how it is validated and allows to read/write form data to serialized files.*

### 9.7.1 Detailed Description

This file contains the class [file\\_form](#).

#### Author

Jeremy Streich

## 9.8 forms.inc.php File Reference

Contains the forms class.

## Classes

- class [forms](#)

*This class describes an HTML form, containing a collection of inputs, and does mass validation and sanitization on them.*

## Variables

- const **PRE\_FORM** 1
- const **POST\_FORM** 2
- const **PRE\_SANITIZE** 3
- const **POST\_SANITIZE** 4
- const **PRE\_VALIDATE** 5
- const **POST\_VALIDATE** 6
- const **PRE\_DISPLAY** 7
- const **POST\_DISPLAY** 8
- const **PRE\_ADD\_FIELD** 9
- const **POST\_ADD\_FIELD** 10
- const **PRE\_VALUES** 11
- const **POST\_VALUES** 12

### 9.8.1 Detailed Description

Contains the forms class.

#### Author

Jeremy Streich

## 9.9 hidden\_input.inc.php File Reference

This file contains the [hidden\\_input](#) class.



## Classes

- class [hidden\\_input](#)

The class [hidden\\_input](#) describes a form element, it's attributes and how it is validated and sanitized.

## 9.9.1 Detailed Description

This file contains the [hidden\\_input](#) class.

## Author

Jeremy Streich

## 9.10 input.inc.php File Reference

This file contains the input class.

## Classes

- class [input](#)

The class [input](#) describes a form element, it's attributes and how it is validated and sanitized.

## Variables

- const [RX\\_PHONE](#) `'((\+?)(1|0)?)([s-./]?)(\(\d{3}\)?)(\d{3})([s-./]?)(\d{3})([s-./]?)(\d{4})'`  
Defines the RegEx that a phone number must match to be valid.
- const [RX\\_ZIP](#) `'([0-9]{5}([-][0-9]{4})?)'`  
Defines the RegEx a US ZIP code must match to be valid.
- [\\$state\\_list](#)
- [\\$state\\_abrs](#)

## 9.10.1 Detailed Description

This file contains the input class.

## Author

Jeremy Streich

## 9.10.2 Variable Documentation

## 9.10.2.1 \$state\_abrs

## Initial value:

```
=array( "AK", "AL", "AR", "AZ", "CA", "CO", "CT", "DC",
        "DE", "FL", "GA", "HI", "IA", "ID", "IL", "IN", "KS", "KY", "LA",
        "MA", "MD", "ME", "MI", "MN", "MO", "MS", "MT", "NC", "ND", "NE",
        "NH", "NJ", "NM", "NV", "NY", "OH", "OK", "OR", "PA", "RI", "SC",
        "SD", "TN", "TX", "UT", "VA", "VT", "WA", "WI", "WV", "WY")
```

## 9.11 input\_group.inc.php File Reference

Holds the class for [input\\_group](#).

## Classes

- class [input\\_group](#)

*Defines a group of related inputs like radio buttons or checkboxes that have the same name, but different values.*

### 9.11.1 Detailed Description

Holds the class for [input\\_group](#).

#### Author

Jeremy Streich

## 9.12 observable.inc.php File Reference

Contains the interface observable.

## Classes

- interface [observable](#)

*Describes objects that are able to be observed by observer objects.*

### 9.12.1 Detailed Description

Contains the interface observable.

#### Author

Jeremy Streich

## 9.13 observer.inc.php File Reference

Contains the observer class.

## Classes

- class [observer](#)

*Impliments the observer in the observer patterns.*

### 9.13.1 Detailed Description

Contains the observer class.

#### Author

Jeremy Streich

## 9.14 page.inc.php File Reference

Contains the page class.

## Classes

- class `page`  
*Holds the code to add to the head and foot.*

## Variables

- const `GOOGLE_ANALYTICS` 1  
*Feature id for Google Analytics Async.*
- const `PIWIK` 2  
*Feature id for Piwik analytics.*
- const `FORMS` 3  
*Feature id for HTML5 forms with CSS and polyfill.*
- const `FANCY_BOX` 4  
*Feature id for FancyBox.*
- const `MAX_FEATURES` 4  
*The larges feature id.*

### 9.14.1 Detailed Description

Contains the page class.

#### Author

Jeremy Streich

### 9.14.2 Variable Documentation

#### 9.14.2.1 `const FANCY_BOX` 4

Feature id for FancyBox.

`. fancybox` - Will do the default fancybox treatment `. fancybox-iframe` - Will do a fancybox in iframe mode

#### See Also

`page::add_feature()`  
`page::set_features()`

#### 9.14.2.2 `const FORMS` 3

Feature id for HTML5 forms with CSS and polyfill.

#### See Also

`page::add_feature()`  
`page::set_features()`

#### 9.14.2.3 `const GOOGLE_ANALYTICS` 1

Feature id for Google Analytics Async.

#### See Also

`page::add_feature()`  
`page::set_features()`

#### 9.14.2.4 `const MAX_FEATURES` 4

The largest feature id.

Update this features are added.

#### 9.14.2.5 `const PIWIK` 2

Feature id for Piwik analytics.

See Also

[page::add\\_feature\(\)](#)  
[page::set\\_features\(\)](#)

### 9.15 `textarea.inc.php` File Reference

Contains the class for a textarea object which extends the input object.

Classes

- class [textarea](#)  
*Describes a textarea, it's sanitization and validation.*

#### 9.15.1 Detailed Description

Contains the class for a textarea object which extends the input object.

Author

Jeremy Streich

### 9.16 `texteditor.inc.php` File Reference

This file contains the class definition for the texteditor class.

Classes

- class [texteditor](#)  
*This is a form element wrapping the testarea with javascript to turn it into a rich text editor.*

#### 9.16.1 Detailed Description

This file contains the class definition for the texteditor class.

Author

Jeremy Streich

## Index

- `$state_abrs`
  - `input.inc.php`, 61
- `add_css`
  - `page`, 48
- `add_feature`
  - `page`, 48
- `add_field`
  - `forms`, 31
- `add_observer`
  - `forms`, 31
  - `observable`, 44
- `add_script`
  - `page`, 48
- `append_js`
  - `page`, 49
- `builder_form`, 12
  - `form`, 13
  - `make_field`, 13
- `color_input`, 13
- `create`
  - `crud`, 14
  - `database_form`, 16
  - `db_form`, 24
  - `file_form`, 29
- `create_form`
  - `database_form`, 16
- `create_sql`
  - `db_form`, 24
- `crud`, 14
  - `create`, 14
  - `delete`, 14
  - `read`, 15
  - `update`, 15
- `crud.inc.php`, 57
- `database_form`, 15
  - `create`, 16
  - `create_form`, 16
  - `delete`, 16
  - `delete_form`, 16
  - `display_table`, 17
  - `read`, 17
  - `read_form`, 17
  - `update`, 17
  - `update_form`, 17
- `database_form.inc.php`, 57
- `datalist_input`, 18
  - `datalist_input`, 19
  - `datalist_input`, 19
  - `display`, 20
  - `form`, 20
  - `get_value`, 20
  - `sanitize`, 20
  - `set_value`, 20
  - `validate`, 21
- `date_input`, 21
  - `date_input`, 21
  - `date_input`, 21
- `db_form`, 23
  - `create`, 24
  - `create_sql`, 24
  - `delete`, 24
  - `read`, 24
  - `update`, 24
- `db_form.inc.php`, 58
- `delete`
  - `crud`, 14
  - `database_form`, 16
  - `db_form`, 24
  - `file_form`, 29
- `delete_form`
  - `database_form`, 16
- `deserialize_data`
  - `file_form`, 29
- `display`
  - `datalist_input`, 20
  - `field`, 27
  - `forms`, 32
  - `hidden_input`, 35
  - `input`, 38
  - `input_group`, 41
- `display_table`
  - `database_form`, 17
- `display_text`
  - `field`, 27
  - `forms`, 32
  - `input`, 38
  - `input_group`, 41
- `email_form_values`, 24
- `email_input`, 25
- `event`, 25
- `event.inc.php`, 58
- `extended_inputs.inc.php`, 59
- `FANCY_BOX`
  - `page.inc.php`, 63
- `FORMS`
  - `page.inc.php`, 63
- `field`, 26
  - `display`, 27
  - `display_text`, 27
  - `form`, 27
  - `sanitize`, 27
  - `validate`, 27
  - `values`, 28
- `field.inc.php`, 59
- `file_form`, 28
  - `create`, 29

- delete, 29
- deserialize\_data, 29
- read, 29
- save, 29
- serialize\_data, 30
- update, 30
- file\_form.inc.php, 59
- form
  - builder\_form, 13
  - datalist\_input, 20
  - field, 27
  - forms, 32
  - hidden\_input, 35
  - input, 38
  - input\_group, 41
  - range\_input, 52
  - textarea, 55
  - texteditor, 56
- forms, 30
  - add\_field, 31
  - add\_observer, 31
  - display, 32
  - display\_text, 32
  - form, 32
  - forms, 32
  - notify, 32
  - remove\_observer, 33
  - sanitize, 33
  - validate, 33
  - values, 33
- forms.inc.php, 60
- fund\_item, 33
- funding, 34
- GOOGLE\_ANALYTICS
  - page.inc.php, 63
- get\_value
  - datalist\_input, 20
  - number\_input, 43
- hidden\_input, 35
  - display, 35
  - form, 35
  - hidden\_input, 35
  - hidden\_input, 35
- hidden\_input.inc.php, 60
- input, 37
  - display, 38
  - display\_text, 38
  - form, 38
  - input, 39
  - sanitize, 39
  - set\_value, 39
  - validate, 40
  - values, 40
- input.inc.php, 61
  - \$state\_abrs, 61
- input\_group, 40
  - display, 41
  - display\_text, 41
  - form, 41
  - input\_group, 41
  - input\_group, 41
  - sanitize, 42
  - validate, 42
- input\_group.inc.php, 61
- MAX\_FEATURES
  - page.inc.php, 63
- make\_field
  - builder\_form, 13
- message, 42
- notify
  - forms, 32
  - observable, 46
  - observer, 47
- number\_input, 43
  - get\_value, 43
  - number\_input, 43
  - number\_input, 43
  - set\_value, 44
- observable, 44
  - add\_observer, 44
  - notify, 46
  - remove\_observer, 46
- observable.inc.php, 62
- observer, 46
  - notify, 47
  - observer, 47
  - set\_func, 47
- observer.inc.php, 62
- PIWIK
  - page.inc.php, 64
- page, 47
  - add\_css, 48
  - add\_feature, 48
  - add\_script, 48
  - append\_js, 49
  - page, 49
  - set\_content, 49
  - set\_css, 49
  - set\_features, 49
  - set\_google\_analytics, 50
  - set\_js, 50
  - set\_scripts, 50
  - set\_site\_id, 50
- page.inc.php, 62
  - FANCY\_BOX, 63
  - FORMS, 63
  - GOOGLE\_ANALYTICS, 63
  - MAX\_FEATURES, 63
  - PIWIK, 64
- password\_input, 51
- range\_input, 51

- form, [52](#)
  - range\_input, [52](#)
  - range\_input, [52](#)
- read
  - crud, [15](#)
  - database\_form, [17](#)
  - db\_form, [24](#)
  - file\_form, [29](#)
- read\_form
  - database\_form, [17](#)
- remove\_observer
  - forms, [33](#)
  - observable, [46](#)
- sanitize
  - datalist\_input, [20](#)
  - field, [27](#)
  - forms, [33](#)
  - input, [39](#)
  - input\_group, [42](#)
- save
  - file\_form, [29](#)
- serialize\_data
  - file\_form, [30](#)
- set\_content
  - page, [49](#)
- set\_css
  - page, [49](#)
- set\_features
  - page, [49](#)
- set\_func
  - observer, [47](#)
- set\_google\_analytics
  - page, [50](#)
- set\_js
  - page, [50](#)
- set\_scripts
  - page, [50](#)
- set\_site\_id
  - page, [50](#)
- set\_value
  - datalist\_input, [20](#)
  - input, [39](#)
  - number\_input, [44](#)
- tel\_input, [52](#)
  - tel\_input, [53](#)
  - tel\_input, [53](#)
- text\_input, [53](#)
- textarea, [54](#)
  - form, [55](#)
  - textarea, [55](#)
- textarea.inc.php, [64](#)
- texteditor, [55](#)
  - form, [56](#)
- texteditor.inc.php, [64](#)
- update
  - crud, [15](#)
  - database\_form, [17](#)
  - db\_form, [24](#)
  - file\_form, [30](#)
- update\_form
  - database\_form, [17](#)
- validate
  - datalist\_input, [21](#)
  - field, [27](#)
  - forms, [33](#)
  - input, [40](#)
  - input\_group, [42](#)
- values
  - field, [28](#)
  - forms, [33](#)
  - input, [40](#)
- zip\_input, [56](#)
  - zip\_input, [57](#)
  - zip\_input, [57](#)