

[input.php](#)

```
<?php

namespace dokuwiki\Input;

/**
 * Encapsulates access to the $_REQUEST array, making sure used
 * parameters are initialized and
 * have the correct type.
 *
 * All function access the $_REQUEST array by default, if you want to
 * access $_POST or $_GET
 * explicitly use the $post and $get members.
 *
 * @author Andreas Gohr <andi@splitbrain.org>
 */
class Input
{

    /** @var Post Access $_POST parameters */
    public $post;
    /** @var Get Access $_GET parameters */
    public $get;
    /** @var Server Access $_SERVER parameters */
    public $server;

    protected $access;

    /**
     * @var Callable
     */
    protected $filter;

    /**
     * Intilizes the dokuwiki\Input\Input class and it subcomponents
     */
    public function __construct()
    {
        $this->access = &$_REQUEST;
        $this->post = new Post();
        $this->get = new Get();
        $this->server = new Server();
    }

    /**
     * Apply the set filter to the given value
     *
     * @param string $data
     * @return string
     */
}
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protected function applyfilter($data)
{
    if (!$this->filter) return $data;
    return call_user_func($this->filter, $data);
}

/**
 * Return a filtered copy of the input object
 *
 * Expects a callable that accepts one string parameter and returns
a filtered string
 *
 * @param Callable|string $filter
 * @return Input
 */
public function filter($filter = 'stripctl')
{
    $this->filter = $filter;
    $clone = clone $this;
    $this->filter = '';
    return $clone;
}

/**
 * Check if a parameter was set
 *
 * Basically a wrapper around isset. When called on the $post and
$get subclasses,
 * the parameter is set to $_POST or $_GET and to $_REQUEST
 *
 * @see isset
 * @param string $name Parameter name
 * @return bool
 */
public function has($name)
{
    return isset($this->access[$name]);
}

/**
 * Remove a parameter from the superglobals
 *
 * Basically a wrapper around unset. When NOT called on the $post
and $get subclasses,
 * the parameter will also be removed from $_POST or $_GET
 *
 * @see unset
 * @param string $name Parameter name
 */
public function remove($name)
{

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        if (isset($this->access[$name])) {
            unset($this->access[$name]);
        }
        // also remove from sub classes
        if (isset($this->post) && isset($_POST[$name])) {
            unset($_POST[$name]);
        }
        if (isset($this->get) && isset($_GET[$name])) {
            unset($_GET[$name]);
        }
    }

    /**
     * Access a request parameter without any type conversion
     *
     * @param string $name Parameter name
     * @param mixed $default Default to return if parameter isn't set
     * @param bool $nonempty Return $default if parameter is set but
empty()
     * @return mixed
     */
    public function param($name, $default = null, $nonempty = false)
    {
        if (!isset($this->access[$name])) return $default;
        $value = $this->applyfilter($this->access[$name]);
        if ($nonempty && empty($value)) return $default;
        return $value;
    }

    /**
     * Sets a parameter
     *
     * @param string $name Parameter name
     * @param mixed $value Value to set
     */
    public function set($name, $value)
    {
        $this->access[$name] = $value;
    }

    /**
     * Get a reference to a request parameter
     *
     * This avoids copying data in memory, when the parameter is not
set it will be created
     * and intialized with the given $default value before a reference
is returned
     *
     * @param string $name Parameter name
     * @param mixed $default If parameter is not set, initialize with
this value

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    * @param bool $nonempty Init with $default if parameter is set but
empty()
    * @return mixed (reference)
    */
    public function &ref($name, $default = '', $nonempty = false)
    {
        if (!isset($this->access[$name]) || ($nonempty &&
empty($this->access[$name]))) {
            $this->set($name, $default);
        }

        return $this->access[$name];
    }

/**
 * Access a request parameter as int
 *
 * @param string $name Parameter name
 * @param int $default Default to return if parameter isn't set or
is an array
 * @param bool $nonempty Return $default if parameter is set but
empty()
 * @return int
 */
    public function int($name, $default = 0, $nonempty = false)
    {
        if (!isset($this->access[$name])) return $default;
        if (is_array($this->access[$name])) return $default;
        $value = $this->applyfilter($this->access[$name]);
        if ($value === '') return $default;
        if ($nonempty && empty($value)) return $default;

        return (int)$value;
    }

/**
 * Access a request parameter as string
 *
 * @param string $name Parameter name
 * @param string $default Default to return if parameter isn't set
or is an array
 * @param bool $nonempty Return $default if parameter is set but
empty()
 * @return string
 */
    public function str($name, $default = '', $nonempty = false)
    {
        if (!isset($this->access[$name])) return $default;
        if (is_array($this->access[$name])) return $default;
        $value = $this->applyfilter($this->access[$name]);
        if ($nonempty && empty($value)) return $default;
    }

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        return (string)$value;
    }

    /**
     * Access a request parameter and make sure it is has a valid value
     *
     * Please note that comparisons to the valid values are not done
     * typesafe (request vars
     * are always strings) however the function will return the correct
     * type from the $valids
     * array when an match was found.
     *
     * @param string $name Parameter name
     * @param array $valids Array of valid values
     * @param mixed $default Default to return if parameter isn't set
     * or not valid
     * @return null|mixed
     */
    public function valid($name, $valids, $default = null)
    {
        if (!isset($this->access[$name])) return $default;
        if (is_array($this->access[$name])) return $default; // we
        don't allow arrays
        $value = $this->applyfilter($this->access[$name]);
        $found = array_search($value, $valids);
        if ($found !== false) return $valids[$found]; // return the
        valid value for type safety
        return $default;
    }

    /**
     * Access a request parameter as bool
     *
     * Note: $nonempty is here for interface consistency and makes not
     * much sense for booleans
     *
     * @param string $name Parameter name
     * @param mixed $default Default to return if parameter isn't set
     * @param bool $nonempty Return $default if parameter is set but
     * empty()
     * @return bool
     */
    public function bool($name, $default = false, $nonempty = false)
    {
        if (!isset($this->access[$name])) return $default;
        if (is_array($this->access[$name])) return $default;
        $value = $this->applyfilter($this->access[$name]);
        if ($value === '') return $default;
        if ($nonempty && empty($value)) return $default;
    }

```

```
        return (bool)$value;
    }

    /**
     * Access a request parameter as array
     *
     * @param string $name Parameter name
     * @param mixed $default Default to return if parameter isn't set
     * @param bool $nonempty Return $default if parameter is set but
empty()
     * @return array
     */
    public function arr($name, $default = array(), $nonempty = false)
    {
        if (!isset($this->access[$name])) return $default;
        if (!is_array($this->access[$name])) return $default;
        if ($nonempty && empty($this->access[$name])) return $default;

        return (array)$this->access[$name];
    }

    /**
     * Create a simple key from an array key
     *
     * This is useful to access keys where the information is given as
an array key or as a single array value.
     * For example when the information was submitted as the name of a
submit button.
     *
     * This function directly changes the access array.
     *
     * Eg. $_REQUEST['do']['save']='Speichern' becomes $_REQUEST['do']
= 'save'
     *
     * This function returns the $INPUT object itself for easy chaining
     *
     * @param string $name
     * @return Input
     */
    public function extract($name)
    {
        if (!isset($this->access[$name])) return $this;
        if (!is_array($this->access[$name])) return $this;
        $keys = array_keys($this->access[$name]);
        if (!$keys) {
            // this was an empty array
            $this->remove($name);
            return $this;
        }
        // get the first key
        $value = array_shift($keys);
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        if ($value === 0) {  
            // we had a numeric array, assume the value is not in the  
key        $value = array_shift($this->access[$name]);  
        }  
  
        $this->set($name, $value);  
        return $this;  
    }  
}
```

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