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## ??

?????Prototype?????????JavaScript?? ?????????????????? FireFox, Safari, IE, Opera, ???  
Prototype???(1.6.0)?????????????AppleWebKit?AppleWebKit?????Apple?????Web?????????Safari?????????

Nokia Web??????S60WebKit??S60WebKit?????WebKit????S60?????????Nokia WRT(Web-RunTime)?????

?????????????WRT Widget?????prototype.js????AJAX???

## ?? prototype

????prototype.js???????

## ???AJAX(JSON)??

?????????????Prototype?AJAX?????????AJAX????????????? <http://www.prototypejs.org/api/ajax>  
<http://www.prototypejs.org/learn/introduction-to-ajax?>



## Say Hi

```
?tab2, "sayHi", "?hi-name"????????(????"Tom")????? "ajax/hi.php"????? ??sayHello??  
?????????"hi"?????????"Hi, Tom!"?
```

??main.html?HTML????

```
<div class="tab" id="tab2">  
<p>  
<div>  
  <label for="hi-name">Enter your name:</label>  
  <input id="hi-name" name="hi-name" type="text" value="Tom" />  
</div>  
  <input type="button" value="Hi" onClick="sayHello('hi', 'ajax/hi.php')" /> <br/>  
</p>  
<hr />  
<p>  
<div id="hi"> -- </div>  
</p>  
  // omitted...  
</div>
```

??demo.js?JavaScript????

```
<code javascript>  
function sayHello(id, path){  
  var this_url = base_url + path;  
  var pars = 'hi-name='+escape($F('hi-name'));  
  var myAjax = new Ajax.Updater(id, this_url, {method: 'get', parameters: pars});  
}
```

??ajax/hi.php?Php??

```
<?php  
  $name = htmlspecialchars($_GET['hi-name']);  
  echo "<b>Hi, $name!</b>";  
?>
```

## ???AJAX

```
?tab3, "AJAX", ??????????????????AJAX?????username?password????????"Bob"? "Secret"?  
?????"Welcome, <username>!" ??????????????????????????"username or password error!"?
```

??main.html?HTML????

```
<div class="tab" id="tab3">  
<p>  
<form id="loginForm">  
  UserName: <input id="username" name="username" value="Bob" /><br />  
  Password: <input id="password" name="password" type="password" value="Secret" /><br/>  
  <input type="button" value="Login" onClick="sendAjaxLogin('loginForm', 'loginResult');" />  
</form>  
</p>  
<hr />  
<div id="loginResult"> -- Not Logged in -- </div>  
<hr />  
  // omitted...
```

ä½ç "Prototype\_JavaScriptâ :\_â "WRTâ ç "ä\_ä½ç "èj"ä ä, AJAX(JSON)

</div>

??demo.js?JavaScript????

```
function sendAjaxLogin(form, id)
{
  var this_url = base_url + "ajax/ajax_login.php";
  var pars = $(form).serialize();
  alert(pars); // show parameters
  var myAjax = new Ajax.Updater(id, this_url, {method: 'get', parameters: pars});
}
```

??ajax/ajax\_login.php?Php??

```
<?PHP
if (count($_GET) == 0) {
  die ("ERROR: This page has been improperly accessed.");
}

$username = $_GET['username'];
$password = $_GET['password'];

if (strcmp($username, 'Bob') == 0 && strcmp($password, 'Secret') == 0)
  echo "Welcome, ".$username."!";
else
  echo "<b>Username or password error</b>!";
?>
```

## JSON??

?tab4, ???JSON??? ?????JSON????????JSON????????????HTML???

??main.html?HTML????

```
<div class="tab" id="tab4">
<p>
<input type="button" value='test JSON' onclick='test_json();' />
</p>
<hr />
<div>JSON Result: <br /><span id="tab4_result">This data will be replaced.</span></div>
<hr />
<p>

<div style="display:none;">
<textarea id="table_template">
<table border="1">
<thead><tr>#{heads}</tr></thead>
<tbody>
  #{rows}
</tbody>
</table>
</textarea>
</div>

<div style="display:none;">
```

???AJAX



## ä½ç "Prototype\_JavaScriptâ :\_â "WRTâ ç "ä\_ä½ç "èj"ä ä, AJAX(JSON)

```
templ = new Template($('headcell_template').value);
var headFormatted = "";
for (var i=0; i<keys.length; i++) {
    headFormatted += templ.evaluate({"hname": keys[i]});
}
// assembly table.
var tableTemplateString = $('table_template').value;
var pars = {"heads": headFormatted, "rows": bodyFormatted};
$('tab4_result').innerHTML = tableTemplateString.mixin(pars);

// hide progress animation gif
$('waitpic').style.display = 'none';
}
```

### ???mixin????String???

```
Object.extend(String.prototype, {
    mixin: function(obj) {
        return new Template(this).evaluate(obj);
    }
});
```

### ??ajax/test\_json.php?Php??

<?PHP

```
// ref: http://www.pastebin.ca/611218
if (!function_exists('json_encode')){
// now its portable to php ver. < 5.2.0 where you would otherwise
// have to install the php-json c-extension first
    include_once('Services_JSON.php');
    $json = new Services_JSON();
    function json_encode($value){
        global $json;
        return $json->encode($value);
    }
    function json_decode($value){
        global $json;
        return $json->decode($value);
    }
}
```

```
$_array1[] = array(
    'product' => 'WRT Internals',
    'price' => 24.5,
    'quantity' => 1
);
$_array2[] = array(
    'product' => 'The Prototype world',
    'price' => 5.44,
    'quantity' => 3
);
$_array3[] = array(
    'product' => 'WRK Reference',
    'price' => 10.00,
    'quantity' => 4
);

header('Content-type: application/x-json');
$data = array($_array1, $_array2, $_array3);
//encode and return json data...
```

### JSON??

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echo json\_encode(\$data);

?>

?????PHP?????5.2.0?????Services\_JSON.php????JSON???

**??????**

??????Widget??? File:PrototypeFormAndAjaxDemo.zip?????????.zip???.wgz?

?????????? http://code.google.com/p/prototypewrt/downloads/list

**????**

- ??Prototype JavaScript?: ?WRT???????
- ??Prototype JavaScript?: ?WRT?????????????????
- ??Prototype JavaScript?: ?WRT???????????
- ??Prototype JavaScript?: ?WRT???????
- ??Prototype JavaScript?: ?WRT?????Prototype UI?
- ??Prototype JavaScript?: ?WRT????????AJAX(JSON)

**??**

- Prototype?? [1]
- Prototype UI??[2]
- ??WRT????[3]