CPAINT

Cross-Platform Asynchronous INterface Toolkit

http://sf.net/projects/cpaint

backend API

cpaint
start()
register()
return_data()
add_node()
get_attribute()
get_data()
get_name()
set_attribute()
set_data()
set_name()

cpaint_node
add_node()
get_attribute()
get_data()
get_name()
set_attribute()
set_data()
set_name()

common mistakes

- PHP4: `add_node()` returns the node object by reference. Use `$var =& $cp->add_node()`.
- CPAINT assumes incoming data to be UTF-8. Use `$cp->start('ISO-8859-1')` or similar if that's not the case.
- backend functions must first be registered through `$cp->register('funcname')`

creating the response

unstructured response:
```
$cp->set_data('my data');
```

collections:
```
for ($i=0; $i<10; $i++) {

  $node =& $cp->add_node(
               'col,
               'id' . $i
              );
  $node->set_data($data[$i]);
}
```

creating nested nodes:
```
$parent =& $cp->add_node(
                'parent'
              );
$child =& $parent->add_node(
                   'child'
                 );
```

available response types

TEXT
Most useful for non-structured responses. The fastest response type.

OBJECT
The default response type. Useful for complex data structures. Data is sent as XML, parsed by CPAINT frontend.

XML
Useful for external data sources. Websites, HTML, SOAP services, RSS / RDF feeds, ... OBJECT is often the more comfortable response type if data is not too complex.

E4X
As of now supported by Firefox 1.5 only! Offers a more scripty approach to XML traversal.

call() parameter order

1) backend URL
2) remote method name
3) local callback function
4) 1st remote argument
5) 2nd remote argument
6) ...

CPAINT defaults

proxy URL: none
transfer mode: GET
asynchronous: yes
response type: OBJECT
persistent conn.: no
CPAINT API: yes

frontend API

cpaint
call()
set_debug()
set_proxy_url()
set_transfer_mode()
set_async()
set_response_type()
set_persistent_connection()
set_use_cpaint_api()

cpaint_result_object
find_item_by_id()
get_attribute()
set_attribute()

common mistakes

- Opera can't do POST prior to v8.
- `set_async(true)` freezes the browser while request is underway.
- requests that follow too fast are dropped when `persistent_connection(true)` is used.
- `cpaint.call()` does not return the response. You must set up a callback function that takes the response as single parameter.
- when using E4X, use `<script type="text/javascript;e4x=1">` and avoid HTML comments within.

working with the response

finding a specific node:
```
r.find_item_by_id('nodename',
'nodeid');
```

accessing node attributes:
```
r.get_attribute('name');
```

walking through a collection:
```
for (i=0; i<r.col.length; i++) {

  alert(r.col[i].data);
}
```

accessing nested node data:
```
r.child[0].data
```