

Extjs 3.0 . The good stuff

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The first 5 minutes of the rest of your life

- Introduction. Hello!
- The community is growing. Florida conference 2009.
- Incoherent ramblings about widget systems
- Extjs architectural overview (recap)
- The Component lifecycle (the important stuff)
- Ext.Direct - introducing routers (the good stuff)



First conference for Extjs in Orlando Florida 2009



areaction, jacob.andresen, ValeryG

Extjs architectural overview

- It works! (people started to use it with 2.0 in 2008)
- Layout managers
- DataView
- JSON . XML? who cares? (just extend Ext.data.DataReader and use a Store extending Ext.data.Store)

open a browser and look at

<http://extjs.com/deploy/dev/examples/>

Warning: code follows on the next slide!

How to use a Ext.data.Store

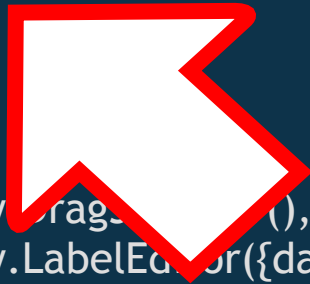
You can use a Store to bind data to Components

```
Ext.onReady(function(){
    var xd = Ext.data;

    var store = new Ext.data.JsonStore({
        url: 'get-images.php',
        root: 'images',
        fields: ['name', 'url', {name:'size', type: 'float'}, {name:'lastmod', type:'date',
dateFormat:'timestamp'}]
    });
    store.load();

    var tpl = new Ext.XTemplate(
        '<tpl for=".">',
        '<div class="thumb-wrap" id="{name}">',
        '<div class="thumb"></div>',
        '<span class="x-editable">{shortName}</span></div>',
        '</tpl>',
        '<div class="x-clear"></div>'
    );
    ....
```

```
...
var panel = new Ext.Panel({
    id:'images-view',
    ...
    layout:'fit',
    ...
    items: new Ext.DataView({
        store: store,
        tpl: tpl,
        ...
        plugins: [
            new Ext.DataView.Frag(),
            new Ext.DataView.LabelEditor({dataIndex: 'name'})
        ],
        ....
    });
}
```



Rolling your own Component

Component lifecycle:

- Initialization
- Rendering
- Destruction

Guidelines:

- **DONT REPEAT YOURSELF**. Extend the base classes
- Don't put location information in your component.
- remember namespacing: `Ext.ux.JacobsMapView`
- **READ THE CODE**

Getting intimate with the server (Ext.direct)

You can call serverside functions directly using javascript!

```
var multiply = new Ext.Button({
    text: 'Multiply',
    handler: function(){

        TestAction.multiply(num.getValue(), function(result, e){
            var t = e.getTransaction();
            if(e.status){
                out.append(String.format('<p><b>Successful call to {0}.{1} with response:</b><xmp>{2}</xmp></p>',
                    t.action, t.method, Ext.encode(result)));
            }else{
                out.append(String.format('<p><b>Call to {0}.{1} failed with message:</b><xmp>{2}</xmp></p>',
                    t.action, t.method, e.message));
            }
            out.el.scrollTo('t', 100000, true);
        });
    });
});
```

calculation in php

```
<?php
class TestAction {
    function doEcho($data){
        return $data;
    }

    function multiply($num){
        if(!is_numeric($num)){
            throw new Exception('Call to multiply with a value that is not a
number');
        }
        return $num*8;
    }
}
?>
```

The PHP magic (Ext.direct router conf)

```
<?php
$API = array(
    'TestAction'=>array(
        'methods'=>array(
            'doEcho'=>array(
                'len'=>1
            ),
            'multiply'=>array(
                'len'=>1
            )
        )
    )
);
?>
```

Oh yeah?

Known issues

- You probably already have remoting
- But I want SOAP!

Ext.Direct can

- Bundle calls. Fewer calls means less network traffic
- provide transactions

Can you do that?

QUESTIONS?

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