

Sitecore Scripting



#sitecoresym

Introductions

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- **Product Architect at Next Digital**
- **Sitecore MVP since 2008**
- **Creator of the first scripting module for Sitecore, Revolver**
- **Active Shared Source contributor**
 - **WeBlog**
- **Contributor to the first official Sitecore book, Professional Sitecore Development by John West**
- **<http://adeney.s.wordpress.com>**

What's it about?

- **Scripting saves time**
- **Perform same action to a large number of items**
- **Scripting makes common actions easily repeatable**
- **Ad-hoc reporting**
- **Find data throughout the site**
- **Moving content between languages and versions**
- **Copy complex fields between items**
- **Reliability**

Module Options

PowerShell Based

- Sitecore Rocks PowerShell Console
- Sitecore PowerShell Console

Others

- Sitecore Rocks Query Analyser
- Revolver
- SQL

Sitecore Rocks PowerShell Console

- **Part of Sitecore Rocks Visual Studio Plugin**
- **Is PowerShell**
- **Works with a context**
- **Extensible**
- **Requires Visual Studio**
- **Optionally install web service to Sitecore instance**
- **Hosted on client machine calling web service hosted by Sitecore**

Demo: Sitecore Rocks PowerShell Console in Action

Sitecore Rocks Query Analyser

- **Part of Sitecore Rocks Visual Studio Plugin**
- **Similar to SQL**
- **Uses Sitecore query**
- **Works without a context**
- **Requires Visual Studio**
- **Optionally install web service to Sitecore instance**

Demo: Sitecore Rocks Query Analyser in Action

Sitecore PowerShell Console

- **Part of the Sitecore Shared Source Library**
- **Open Source**
- **Is Powershell (hosted within Sitecore)**
- **Works with a context**
- **Extensible**
- **Installs into Sitecore**
- **Hosted within Sitecore, provides access to Sitecore API**

Demo: Sitecore PowerShell Console in Action

Revolver

- **First scripting module available for Sitecore**
- **Soon to be Open Source**
- **Uses custom language**
- **Works with a context**
- **Extensible**
- **Installs into Sitecore**
- **Hosted within Sitecore application**

Demo: Revolver in Action

SQL

- **Common language**
- **Works without a context**
- **Requires direct access to the DB server**
- **Queries dealing with hierarchy may be more complex**
- **Queries dealing with all fields may be easier**

Demo: SQL in Action

Warning



WARNING



**This database is protected by
CHUCK NORRIS. Unlawful
use by inexperienced developers
will result in death by
roundhouse kick to the head**

Common Actions – Create / Delete Items

Rocks PowerShell

```
new-item . -type 'sample\sample item' -value itemname
```

```
remove-item itemname
```

Rocks Query Analyser

```
insert into (@@itemname, @@templateitem, @@path) values ("itemname",  
/sitecore/templates/sample/sample item, /sitecore/content/home)
```

```
delete from /sitecore/content/home/itemname
```

PowerShell Console

```
new-item . -type '\templates\sample\sample item' -Name itemname
```

```
remove-item itemname
```

Revolver

```
touch -t (sample/sample item) itemname
```

```
rm
```


Common Actions – Copy / Move Items

Rocks PowerShell

```
copy-item itemsource itemtarget
```

```
move-item itemsource itemtarget
```

Rocks Query Analyser

<none>

PowerShell Console

```
copy-item itemname itemtarget
```

```
move-item itemname itemtarget
```

Revolver

```
cp target
```

```
mv target
```

Common Actions – Get / Set Field Values

Rocks PowerShell

```
get-itemproperty . -name Title
```

```
set-itemproperty . -name Title -value fieldvalue
```

Rocks Query Analyser

```
select @title from /sitecore/content/home/myitem
```

```
update set @title = "fieldvalue" from /sitecore/content/home/myitem
```

PowerShell Console

```
get-item . | select Title
```

```
get-item . |% { $_.Title = "itemtitle" }
```

Revolver

```
gf -f title
```

```
sf title itemtitle
```

Common Actions – Change Item's Template

Rocks PowerShell

<none>

Rocks Query Analyser

<none>

PowerShell Console

```
$template = get-item "/templates/user defined/any template"  
get-item . |% { $_.ChangeTemplate($t) }
```

Revolver

```
ct (user defined/compatible template)
```

Lego Blocks

Joining the Blocks

Combine smaller commands together to create more complex actions

PowerShell

- **Pipe commands**
get-item . | select ID, Name

Query Analyzer

- **Expressions**
select * from /sitecore/content/*[@@templateid = /sitecore/templates/modules/weblog/blogcomment/@@id]

Revolver

- **Subcommands**
find -r -a templateid < (ga -a templateid) pwd

Joining the Blocks cont.

SQL

- **Subquery**

```
select * from items where parentid = (select id from items where name = 'sitecore')
```

PowerShell, Revolver, SQL

- **Allow use of variables**

- **PS:** \$t = get-item . | select TemplateID

- **Revolver:** set t < (ga -a templateid)

- **SQL:** declare @t uniqueidentifier

```
select @t = TemplateID from items where name = 'myitem'
```

Locating Items

PowerShell Modules

- **Iterate items, Filter**
`get-childitem -r | where-object { $_.Name -eq 'Home' }`
- **Search cmdlets**

Sitecore Rocks PowerShell

- **Sitecore Query (Search-SCItems)**

Sitecore PowerShell Console

- **Sitecore API access**

Locating Items cont.

Sitecore Rocks Query Analyser & SQL

- **Select, Filter**

```
select * from /sitecore/content/*[@@templatename = 'sample item']
```

Revolver

- **find (Iterate Items)**
- **query (Sitecore Query)**
- **search (Lucene search)**

Demo: Locating Items

Bring It Together

I want to move a dynamically bound control from one placeholder to another

- **Locate items using the control**
- **Update the field value**
 - **Replace old placeholder name with new one**

I want to copy the DMS profile from one item to all descendant items

- **Get field value**
- **Apply to all descendants**

Demo: Combining Commands

What's best

Sitecore Rocks PowerShell

- **Sysadmin**
- **Bulk import operations**

Sitecore Rocks Query Analyzer

- **Package up items from query**

Sitecore PowerShell Console

- **Access to Sitecore API**

What's best

Revolver

- **Cleaner, Sitecore oriented syntax**

SQL

- **Easy access to all fields**

Resources

Sitecore Rocks

- <http://visualstudiogallery.msdn.microsoft.com/44a26c88-83a7-46f6-903c-5c59bcd3d35b/>
- http://marketplace.sitecore.net/en/Modules/Sitecore_Rocks.aspx

Sitecore PowerShell Console

- <http://trac.sitecore.net/SitecorePowershellConsole>
- http://marketplace.sitecore.net/en/Modules/Sitecore_PowerShell_console.aspx

Revolver

- <http://www.codeflood.net/revolver/>
- <http://marketplace.sitecore.net/en/Modules/Revolver.aspx>

<http://www.nextdigital.com/technology/sitecore> symposium 2012

Questions?

thank you
for your time!

