



Velocity plugin

Get your web sites up to speed!

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- Java/Servoy Freelance
- Open Source developer
- Servoy Valued Professional
- Co-Admin of ServoyForge
 - 40 projects as Project Leader
 - 10 more as Contributor

Velocity plugin

Servoy Stuff – Velocity plugin



Ever heard of
VelocityReport?

Velocity plugin

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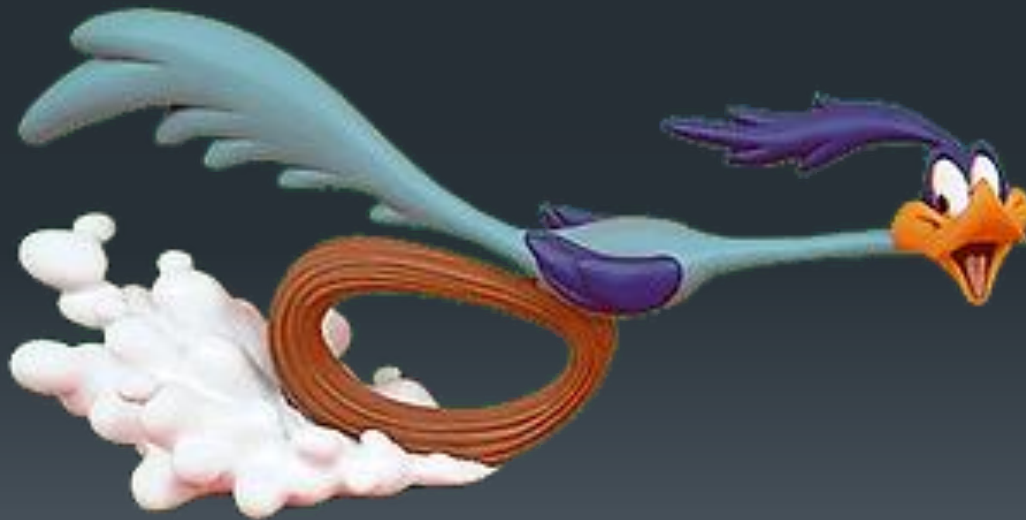


Never?

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Really?



Velocity plugin

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VelocityReport

- Easiest reporting engine ever
- Fastest templating system around
- Standard driven
- Pack full of features
- Servoy aware
- Extremely flexible
- ...did I say fast?

Velocity plugin

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- Build PDF reports
- Preview (x)HTML
- Dashboards
- Produce Charts and Barcodes
- Better/faster (x)HTML rendering
- Merging text based templates

Velocity plugin

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But wait!
That's not all!

Now Velocity is also...

Velocity plugin

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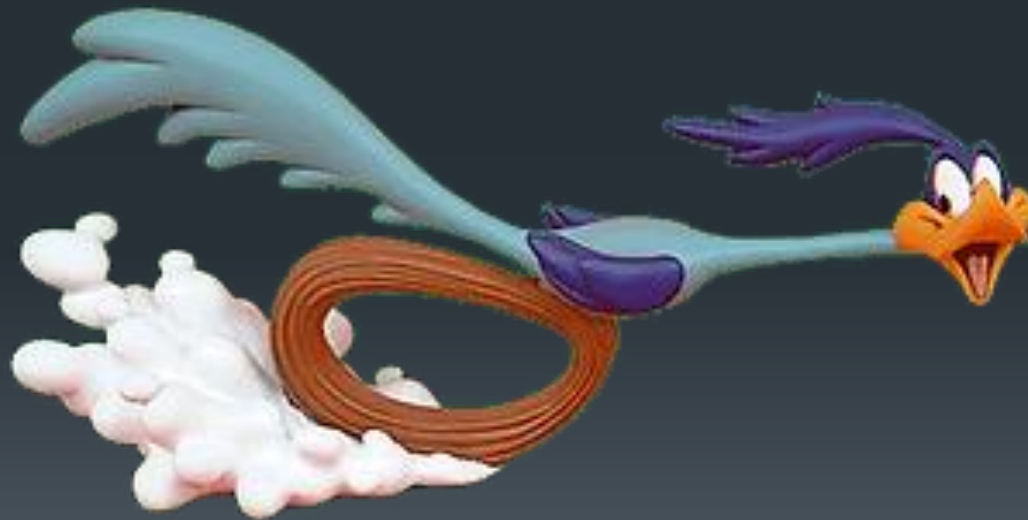


A new breed of
Web client!

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A fast as hell Web client!



Velocity plugin

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A REST servlet (on steroid)

+

Fast and furious Velocity
templating engine

+

VelocityReport capabilities

A REST servlet (on steroid)

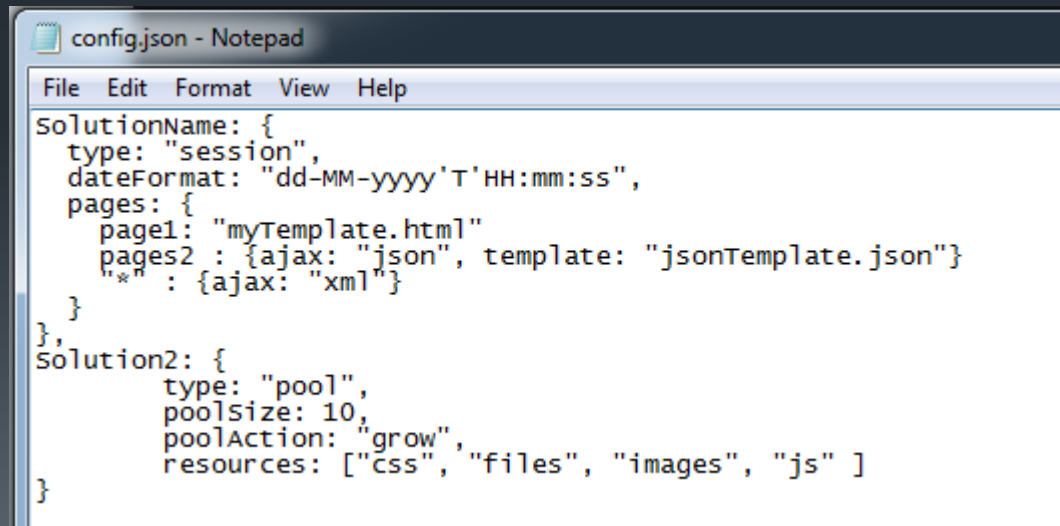
- 3 levels of headless client instantiation (per solution):
 - application (one headless client to rule them all!)
 - pool (just like the REST plugin)
 - session (one headless client per HTTP session)
- In session mode, your session is stateful!

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A REST servlet (on steroid)

Easy to configure using a config.json file:



```
config.json - Notepad
File Edit Format View Help
SolutionName: {
  type: "session",
  dateFormat: "dd-MM-yyyy'T'HH:mm:ss",
  pages: {
    page1: "myTemplate.html"
    pages2 : {ajax: "json", template: "jsonTemplate.json"}
    "*" : {ajax: "xml"}
  }
},
Solution2: {
  type: "pool",
  poolSize: 10,
  poolAction: "grow",
  resources: ["css", "files", "images", "js" ]
}
```

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config.json

```
solution1: { }, solution2: {  
  ■ type (application|session|pool)  
  ■ poolSize / poolAction  
  ■ ajax  
  ■ mimeType  
  ■ dateFormat / numberFormat / jsonDateFormat  
  ■ defaultForm  
  ■ defaultTemplate  
  ■ errorPage  
  ■ authentication  
  ■ defaultUser  
  ■ loginPage  
  ■ userParam / passParm  
  ■ resources: [ ]  
  ■ deny: [ ]  
  ■ pages: { }  
}
```

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config.json

```
solution1: { }, solution2:
{
  pages : {
    ■ formName (can use * wildcards): {
      ■ template
      ■ ajax
      ■ mimeType
      ■ form
      ■ jsonp
    }
  }
}
```

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Velocity templating engine

\$! . #

if / else / elseif / end

foreach / end

set

parse / include

macro

VelocityReport capabilities

- Use ANY Servoy objects
- Extend with build-in charts and barcodes
- Create JSON/XML response on the fly
- Return PDF/Excel to a request

The one function:

```
vr_getContext(request) {  
    // analyse request object  
    // do anything based on that  
    // return a ResponseObject  
}
```

Velocity plugin

- Get the full HTTP request as a JavaScript object:
 - request.method:
 - GET
 - POST
 - PUT
 - DELETE
 - HEAD
 - OPTIONS
 - TRACE
- request contains easy to use collections:
 - request.parameters
 - request.cookies
 - request.headers
 - request.session
 - request.userGroups
- request also contains additional values:
 - request.extension
 - request.pathInfo
 - request.protocol
 - request.queryString
 - request.requestedForm
 - request.scheme
 - request.sessionID
 - request.extraPaths
 - request.clientID
 - request.multipart
 - Request.body
 - request.headlessType
 - request.authentication
 - request.userName
 - request.userID

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- Manipulate the response:
 - createReponse
 - createRedirectResponse
 - createForwardResponse
 - createByteResponse
 - createFileResponse
 - createErrorResponse



- ResponseObject properties:
 - context
 - template
 - Inline
 - mimeType

 - URL
 - bytes
 - file

 - errorCode
 - errorMessage
 - errorLink
 - exception



- ResponseObject methods:
 - addHeader
 - getHeader
 - removeHeader

 - addSessionAttribute
 - getSessionAttribute
 - removeSessionAttribute

 - addCookie
 - getCookie
 - removeCookie

Velocity plugin



■ Cookie object:

- domain
- expiryDate
- maxAge

- path
- sessionBased
- value

- getName()

Velocity plugin



- Produce simple html web apps
- Or web apps powered with any Ajax frameworks (including any mobile frameworks)
- Auto create JSON/XML response by using a .json or .xml extension
 - Generates pure JSON output!

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DEMO



Questions?

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Find it on ServoyForge:

<https://www.servoyforge.net/projects/velocity-report>

Sponsor it!

Send me a note:

admin@servoy-stuff.net