



## Smart.View 1.00

Tired of developing web views? Use the Smart.View plug-in to create nice looking web views without any coding.



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# 1 Basics

Each time Notes opens a view in the web-UI there are 3 options:

- a) No designated template for viewing the view has been specified (==> Notes takes the default one)
- b) a form with the name "\$\$ViewTemplateDefault" is existing in the database (==> Notes takes this form to display the view)
- c) a form with the name "\$\$ViewTemplate for <ViewName>" exists in this database (==> Notes takes this form to display the view... and a) or b) otherwise)

The same behaviour occurs for the option to search in web-databases.

Either there exists a form called "\$\$SearchTemplateDefault" or "\$\$SearchTemplate for <ViewName>" or Notes is taking the standard ones stored in a database named either "domcfg.nsf" or the corresponding template named "domcfg5.ntf"

## 1.1 What are the main differences concerning "web-views" and "notes-views" ?

a) Pretty often views in Notes databases are included in the "IntraNet" of an organisation. Due to stupid marketing guys... there is a high pressure to meet the internal UI-guidelines for the intranet even with your Notes-applications.

- b) There are 3 options to display views in the web:
- 1) Using HTML
  - 2) Using Java
  - 3) Using the views default

ad 1) Using HTML provides a wide range of additional styling options (CSS) but will always be bound to stupid http-rendering of Domino. If you want to circumvent this "standard"-behaviour you have to code additional views using your own "HTML-Tags".  
==> This will be a lot of overhead!!

Also you will **not** have any opportunity to "mark" documents as you can do in the Notes client

ad 2) Using Java enables you to see selection-margins for documents... but the view looks exactly like in Notes and will never ever match your "style-requirements from marketing by default. Due to the fact that we are now not able to use any "CSS-Information".... we are somehow lost. Also we need to have the corresponding "Java Virtual Machine" on the client-side - what we can expect within an intranet - but never ever in a "web-application" accessed by unknown user !!

ad 3) This is the same like ad 1) and ad 2) but you will never really know what you get :-)

c) While there are standard-actions in Notes like "open, edit, delete..." Domino will only render a link to open the document directly from the view. Also there are no opportunities to select multiple documents and run the same code on the selected ones.

d) While Notes do not care about which code is used to create an action (@Formula, JS, LotusScript) - the web-UI **will do** !!

Therefore not all actions included in a view will be able to run from a web-UI. This will lead to automatically generated actions that can not be used at all...



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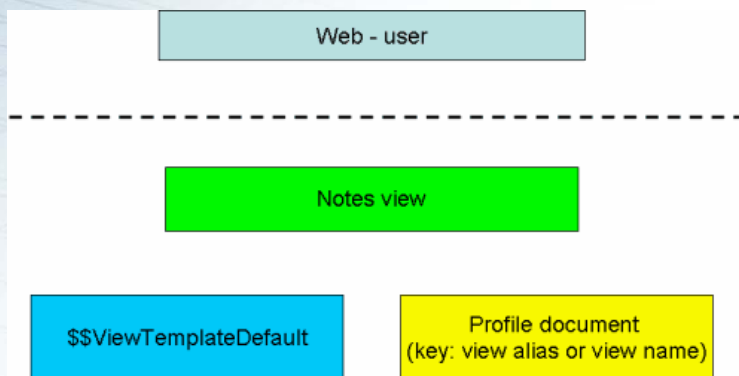
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### 1.2 The idea behind

Regarding the existence of mandatory "styles" and the need to display different information in different "color-schemes" (e. g. Setup) - or doing development for different customers.... or even selling the same product to different customer)...

We are looking for a solution that displays the same content in different styles independent from the code in the database.

Therefore we have decided to setup a system that has a basic framework of HTML / JS-code and uses profile documents to include the layout in this framework:



You can now create a style-sheet profile and apply this profile to selected databases in your view. As soon as a user is opening this view in the web-UI... the corresponding profile document will be identified based on your "**view name**" or "**view alias**" and the cascading **stylesheets** used to display this view will be generated in "**run time**"

To reduce the overhead in your database this style information will be created and saved with the form "**\$\$ViewTemplateDefault**"

Also often required basic functions like "**editing documents** from the view", "**deleting documents**", "**including search bars**", "enable **static header**" or the "selection of used **graphics**" can be configured for each view **separately**.

## 2 Installation

For installing this frameset in any Notes database you have to do the following steps:

- a) copy the subform "**(ViewTemplate.Documentation)**" in your target database
- b) copy the view "**Web.StyleSheets**" in your target database
- c) if you want to add additional columns to your application - copy the following image resources to your database:
  - 1) **expand.gif**
  - 2) **collapse.gif**
  - 3) **ai\_open.gif**
  - 4) **ai\_delete.gif**
  - 5) **ai\_edit.gif**
- d) if you want to use "Excel exports" from the web views - copy the agent:
  - 1) **(agentReportingAsExcel)**in your target database
- d) copy the form: "**\$\$ViewTemplateDefault**" in your target-database
- e) copy the form: "**\$\$SearchTemplateDefault**" in your target-database
- f) if you want to use "custom actions and additional columns" then:



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- 1) copy the scriptlibrary "**lib\_WEBSelection.VFL**" in your target database
- 2) copy the example agent "**agentWebFromView**" in your target database
- 3) *optional add additional graphics as image resource to your database*

f) optional: copy **one of the documents** from the view "**Web.StyleSheets**" in your target database to have a complete preconfigured template to start with

g) Open the document in the Web.StyleSheets view and apply some views to this style

h) save the document

i) open the selected views with your web browser...

## 3 Working with \$\$ViewTemplate

Best thing to start working with this solution is to take an existing configuration document from the view Web.StyleSheets and modify the settings to see what you can do.

### Notes Fields:

Within this section you can define:

- a) Which views will be bound to this stylesheet?
- b) Do you want to have an additional navigation bar?
- c) Do you want to add additional columns to your view for editing, selecting or deleting documents...?
- d) Basic stylesheets for cascading rows, format of your categories and data-cells



Additional columns will occur at the end of the table:

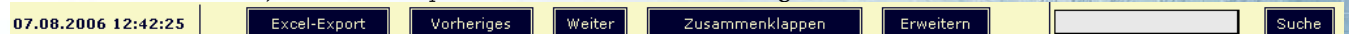


### MainHeader:

Within this section you can define which elements to display in the main header (e. g. ViewTitle, actions...) and what stylesheets to use for this design element.

### SubHeader:

Within this section you can define which elements to display in the sub header (e. g. Current Date, actions, search bar...) and what stylesheets to use for this design element.



### View Table Title:

In this section you can define the look and feel of the table header (the title of the columns)

MainCat	MainCat	Status	Status 3	PNR Number
---------	---------	--------	----------	------------



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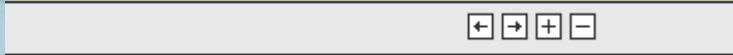
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### Expand / Collapse / Navigation:

In this area you can define how the additional navigation should look like and where to place it (ONLY IF ENABLED IN THE AREA NOTES-FIELDS)



### Search Bar:

In this area you are able to:

- Define the setup of the search bar (where to place it... where to locate the search-button...)
- The layout of the cells and tables

### Basic Actions:

In this area you are able to include basic actions to your "action-menu" in the header section:



in combination with:

Select Actions		
Action-Name	Show	Label (EN:=-Close;DE:=-Schliessen;FR:=-Fermer...)
ExportExcel	<input checked="" type="checkbox"/> show	EN:=-Export to Excel;DE:=-Excel-Export
Previous	<input checked="" type="checkbox"/> show	EN:=-Previous;DE:=-Vorheriges
Next	<input checked="" type="checkbox"/> show	EN:=-Next;DE:=-Weiter

## 4 Examples

Finally the look and feel (example) can be:

### 4.1 GMI Layout

The screenshot shows the 'PNAbyOriginator' web application interface. At the top, there is a navigation bar with buttons for 'Excel-Export', 'Vorheriges', 'Weiter', 'Zusammenklappen', and 'Erweitern'. Below this is a search bar with the text 'Suche'. The main content area displays a table with columns for 'View Title', 'Cat', 'Status', 'Status 3', 'PNA Number', 'Rev', 'Subject', 'Öffnen', 'Bearbeiten', and 'Löschen'. The table contains several rows of data, including entries for 'Disapproved' and 'Issued' status, and 'Testing the Enhancements' and 'Testing the buttons' subjects. A red box highlights a section of the table with the text '10 View-Categories and cascading rows and additional columns'.



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### 4.2 Gill-Layout

### 4.3 SmartiX - Layout

### 4.4 SpamJam-Layout

## 5 Cascading StyleSheets

Cascading Stylesheets:

Find examples for different configuration in the following table

Type	Name	optional values
Font:		
Face:	font-family	Verdana or Courier New
Size:	font-size	10pt or 8pt
Bold:	font-weight	bold or none
alignment:	text-align	right, left, center



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Color	color	#ff0000, #00ff00
Tables:		
Border:	border-top	1pt, 2pt, 0pt
	border-right	1pt, 2pt, 0pt
	border-left	1pt, 2pt, 0pt
	border-bottom	1pt, 2pt, 0pt
	border-style	none, solid, double..
	border-color	#ffffff or #ff0000
Background	background-color	#ffffff or #ff0000
Height	height	10px, 20px
Width	width	100px, 130px, 50%, 100%
Padding	padding-left	5px, 10px, 30px
	padding-right	5px, 10px, 30px
	padding-top	5px, 10px, 30px
	padding-bottom	5px, 10px, 30px
Margin	margin-left	5px, 10px, 30px
	margin-right	5px, 10px, 30px
	margin-top	5px, 10px, 30px
	margin-bottom	5px, 10px, 30px
Empty Cells	empty-cells	show
Positioning		
	position	absolute, relative, static
	top	0px, 10px, 100px
	left	0px, 10px, 100px
	bottom	0px, 10px, 100px
	right	0px, 10px, 100px
	z-index	0, 1, 2, 3, 4....
Visibility:	visibility	visible or hidden

## 6 Adding custom actions

You are able to enhance your ViewTemplate and include additional actions.

Please follow the following steps:

1) in your \$\$ViewTemplate form scroll down to the section "BaseActions"

```
<SPAN class="hiddenElements" id = "BaseActions" name="BaseActions"
style="position: absolute; top: 190px; left: 100px">
  ExportExcel Previous Next Exp:
  Dummy Start Agent Dummy Formula </SPAN>
```

and add an additional action-button.

2) give this button an unique and easy to remember name and id

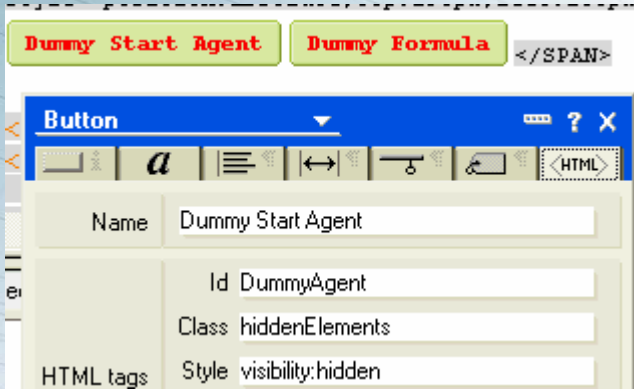


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3) Open your configuration document and scroll down to (10) Basic Actions



In the section "Custom Action 1"... "Custom Action 4" you are able to enter:

- an id for this action (the one you have added to your view template)
- labels for this action in multi-language form...

==> Now this action will be available for the views based on this configuration

Example:

- create the action:



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b) change the configuration:





c) and the result:

## 7 Adding additional columns

Additional columns are used to integrate more functionality to your web view.

Due to the fact that HTML views do not provide a "selection margin" and only default links to open the document... it is impossible to directly edit, delete documents or run agents on selected documents.

Additional columns will add a link with one of the following options to each row that contains a document (no categories):

Action	Description
= Selection	This option allows to select documents from the view and run agents on these documents
 = Open	This link will open the document in a new window in read mode
= Edit	This link will open the document in a new window in edit mode
= Delete	This link will delete the document from the database
 = Custom Action 1	This link will start the agent selected for this action
= Custom Action 1	This link will start the agent selected for this action

In the view itself this will look like that:



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To enable custom columns go to the (0) Notes Section and the "additional columns" sub section

Column	Activate	Labels (EN:=Open;DE:=Öffnen...)
Include link for open documents:	<input checked="" type="checkbox"/> yes	EN:=Open;DE:=Öffnen ai_open.gif
Include link for edit documents:	<input type="checkbox"/> yes	
Include link for delete documents:	<input type="checkbox"/> yes	
Link to run Agent:	<input checked="" type="checkbox"/> yes	EN:=Ag 1;DE:=Ag 1 ai_refresh.gif {agentWebFromView}
Link to run Agent:	<input checked="" type="checkbox"/> yes	EN:=Ag 2;DE:=Ag 2 ai_action.gif {agentWebFromView}
Link to select docs:	<input type="checkbox"/> yes	
Custom graphics		yourImage.gif

a) Here you can define if you want to include this column (yes means the open document link will be displayed)  
 b) wich text should be displayed in the header and as MouseOver (multilanguage !!)  
 c) which graphic you want to display...  
 (if you want to use custom graphics they have to be part of the "image resources" and you have to add there name to the field "CustomGraphics" in the configuration-section (here this graphic is named "yourImage.gif"):

d) for the Agent to run section you can also select the designated agent within your database.

**!! ATTENTION !! to enable your agent for running from the view please make sure:**

**a) DO NOT USE ANY "NOTESUICLASSES"**

**b) Make sure to use the View-Template framework by:**

**1) Include the "lib\_WEBSelection.VFL" library in your agent (use "lib\_WEBSelection.VFL")**

**2) Let the agent run on a document collection and retrieve the document collection with the following function call:**

```

Set doc_Cont           = ses.DocumentContext
Dim db_Unprocessed    As NotesDocumentCollection
Set db_Unprocessed     = getUnprocessedDocuments(doc_Cont)

```

where doc\_Cont is the documentContext of this session.

Please have a look at the agent: "agentWebFromView" in this template



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## 8 Including values and actions

In the main- and the subheader you are able to include either values derived from @Formula language like (@Subset(@ViewTitel;1) or @Text(@Now)) or you are able to include the action bar with the formula:

### ActionBar

This entries have to be done in the section "values to display in elements":



## 9 Hiding any element

All the view elements are based on CSS-settings. To disable any element set the visibility flag to hidden in the main DIV:

### (2) SubHeader

```
// (c) Florian Lier - 27-07-2006//
```

This is the documentation of the element "SubHeader".

It is thought to be an additional table to display some actions below the "MainHeader". To leave empty select the option: "Ignore" in your view-profile

This element will could look like the Number "2" in the documentation-ressource

Values to display in this element

Used IDs & CSS:

Enter your designated values here:

ID	Settings	ID	Se
SubHeader	『 position:absolute top:30px left:0px width:100% visibility:hidden z-index:3 』	SubHeaderTable	『 wi bor bor bor bor bor hor