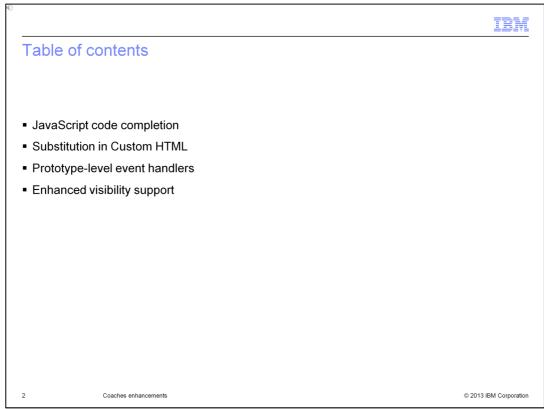


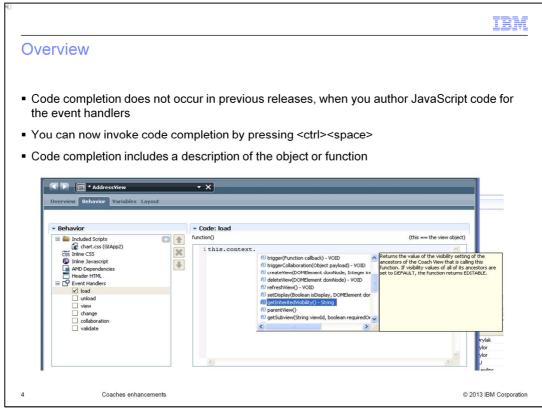
This presentation provides details about the coaches enhancements in IBM Business Process Manager V8.5.



You will learn about how to use JavaScript code completion to speed up the development of coach views. You will also learn about the enhancements to Custom HTML snippets and how to control the behavior of event handlers to improve performance. Finally, you will learn how to use rules and scripts to control the visibility of items in a coach.



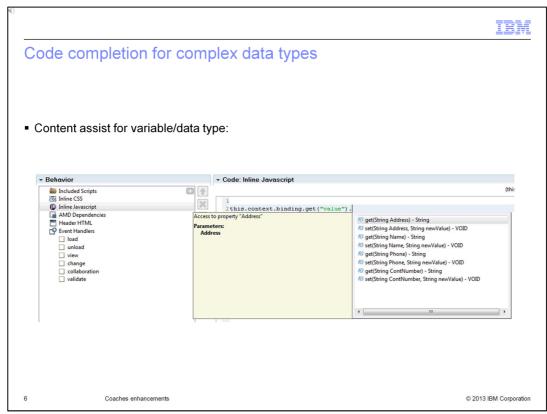
This section provides details about JavaScript code completion for coaches.



A documented API is provided for use when you author a coach view. In IBM Business Process Manager V8.5, when you are writing event handler code or in-line JavaScript, it is now possible to invoke code completion in the editor. The code completion will offer the API that can be called at the current cursor position, along with documentation about the API.

Example: this	.context		IBN
Content assist for • Behavior included Scripts		de: Inline Javascript	
ciss Inline Javascript Inline Javascript Inline Javascrine Javascript </th <th></th> <th>ng call:</th> <th></th>		ng call:	
·			

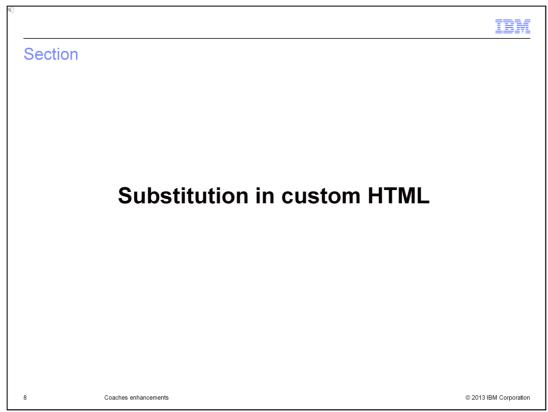
This is an example of code completion for the context object. Notice the details about the selected API object, "binding".



The code completion capabilities include navigation of complex data types, making it easy to write code to access any part of the data tree.

42 	IBM
Details	
 The "context" object provides access to static members (element, bpm, viewid, subview) dynamic members (binding and options) helper functions 	
 The code completions for dynamic elements (bindings, options): provide convenient access to the entire data-structure, any level deep accommodate any return type support lists 	
 The "event" object code completion is enabled in the change, collaboration and event handlers 	validate
	@ 2012 IDM Come
7 Coaches enhancements	© 2013 IBM Corporation

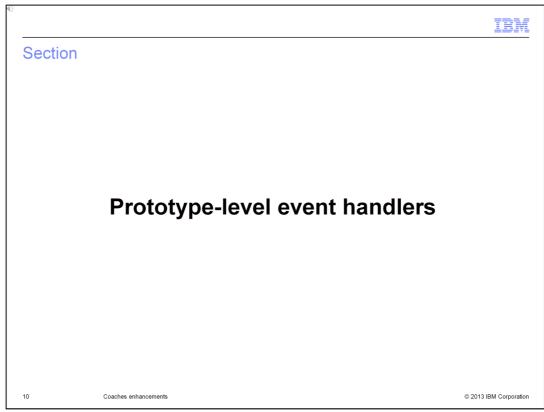
The context object has code-completion suggestions for helper functions, binding and option dynamic members, and static members, such as "element". When code completion is invoked for a binding or option, all aspects of the data are covered, including nesting of complex types, all return types, and lists. Code completion is also available for the parameters passed into event handler functions. The "event" parameter on the change, collaboration and validate event handlers can be explored using code completion.



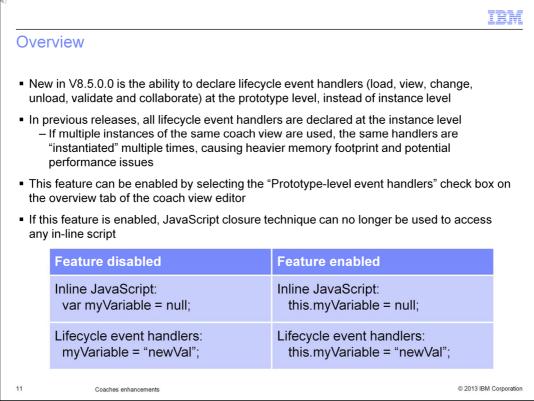
The next slide describes how to substitute variables in custom HTML within coaches.

						IBM
Substitutio	on in Cu	stom HTN	/IL			
	nnorta oga	, access of d	ata in tha Cua	tom UTM	L advanced item	
v8.5.0.0 su	pports easy	/ access of da	ata in the Cus	tom H i M	L advanced item	
Properties HTML	Validation Errors	Where Used				
	Source:	⊙ Text ◯ Managed F	File 🔘 Variable			
	Text:	{{tw.businessData	i.theText}}			
		<				
			Properties Val	dation Errors	Where Used	
			HTML	- HTML		
				Source:	⊙ Text ○ Managed File ○ Variable	
				Text:	<u>{{tw.local.someStr}}</u>	
					<	

In previous releases, when you use custom HTML, it is difficult to access data and incorporate the value of the data into the HTML. In V8.5, the ability to enter substitution variables allows the values of data to be evaluated and embedded in the HTML. The evaluation occurs when the page is generated to be shown and thus is not dynamic. If the value of the data is changed after the client is shown, then the HTML is not updated.



This section describes different prototype-level event handlers within coaches.



Previously, if multiple instances of the same Coach View existed on the same page, then the event handler functions were copied to each instance. This causes memory and potential performance issues. Now, it is possible to set the event handlers to be attached to the prototype instead of the instance object. This allows reuse of the code across many instances.

Enabl	ina	
Overview	Behavior Variables Layout	<u> </u>
- Commo	n	- Usage
Name:	MyCoachView	Can Fire a Boundary Event:
Modified:	tw_admin (May 27, 2013 9:20:38 AM)	Use as a Template:
Tags:	<none></none>	Prototype-level event handlers:
	Click <u>Edit</u> to add or edit text.	- Preview
	CHCK Edit to add or edit text.	Select the images that represent the view during design time.

To enable prototype-level event handlers, first, on the Overview page of the Coach view editor, select the check box. Second, ensure that code uses object member access instead of closure scope.

		IBM
Sect	tion	
	Visibility	/
13	Coaches enhancements	© 2013 IBM Corporation

This section describes visibility, as part of the coaches enhancement.

		IBM
ntroduction)	
Visibility in Co	paches	
	ation Errors Where Used	
General	✓ Visibility	
Configuration Visibility	Source: Value Rule Script	
HTML Attributes	Same as parent	
1		
Note the two :	additional styles for defining visibility – Rule and Script	
Note the two a	additional styles for defining visibility – rule and ochpt	
c		
C	Coaches enhancements	© 2013 IBM Corporatio

The visibility of items in coaches is more flexible in V8.5. It now allows rules and scripts to determine visibility at runtime. The visibility properties are now on a separate tab in the Properties window, to accommodate the new styles for specifying visibility.

							-	
Rules (1 of 2)								
Rules can be base	ed on variable st	ates						
				<u> </u>				
 Rules can be base membership of a t 		ho is viewing/	editing the	e Coach a	and his o	or her		
 Rules are ordered 	, inst match is a	ppneu, ir notn	my match	es men (JUIEIWIS	e is app	Jied	
 A logical "OR" Rules can be r Rules can include 	eordered		same "se	t to" value		ifferent v	varia	bles
– Rules can be r	eordered		same "se	t to" value		ifferent	varia	bles
– Rules can be r Rules can include	eordered		same "se	t to" value		lifferent	varia	bles
 – Rules can be r Rules can include Visibility 	eordered					ifferent	varia	1
Rules can be r Rules can include Visibility source: Ovalue ORUE OScript	eordered many AND clau	ises	qual to	Value	es with d	ifferent		1
Rules can be r Rules can include Visibility source: \value \va	eordered many AND clau	ISES	qual to	Value	es with d	Select]+ ×	× •
Rules can be r Rules can include Visibility source: \value \va	when: privCust.lastName And: privCust.lastName	ISES	jual to	Value	es with d]+ X]+ X	x 4
Rules can be r Rules can include Visibility Source: Value @ Rule @ Script Set to: Editable Set to: Read only	when: ● privCust.lastName when: ● privCust.lastName when user is: Member	ISES	jual to	Value	es with d]+ X]+ X	bles × & f
Rules can be r Rules can include Visibility Source: Value @ Rule Script Set to: @dtable Set to: Read only Otherwise: Same as parent	when: ● privCust.lastName when: ● privCust.lastName when user is: Member	ISES	jual to	Value	es with d]+ X]+ X	x 4

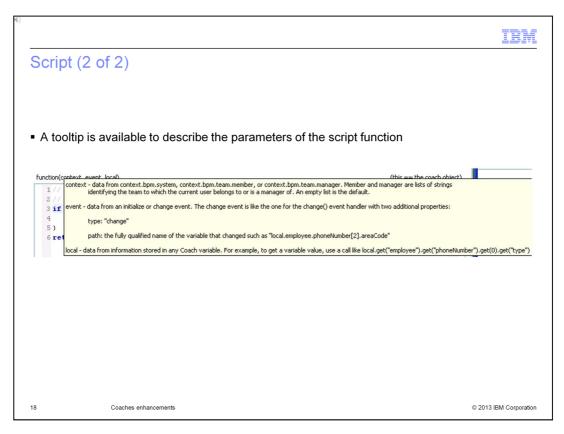
If you use rules to specify visibility, then the visibility is determined by the state of variables or by who is viewing the task at runtime. Rules can be combined and ordered to create simple "AND" and "OR" statements.

	IBM
Rules (2 of 2)	
 The condition (operator) for each rule is tailored to the variable "type" 	
- For example, if the variable is a Boolean, then "less than" does not n	nake sense and will
not appear in the drop down	
 The "Value" (operand) adapts to the variable type For example, Date Time widget to enable convenient Date selection 	
 ✓ Visibility 	
Source: 🔘 Value 🔘 Rule 🔘 Script	
	(() ()
May 2013 →	
Otherwise: Hidden Sun Mon Tue Wed Thu Fri Sat	
Add rule for: Variable Team 5 6 7 8 9 10 11 12 13 14 15 16 17 18	
19 20 21 22 23 24 25 26 27 28 29 30 31 1	
2 3 4 5 6 7 8 Today: 5/28/2013	
 Input validation for Integer, Decimal, Boolean 	
input validation for integer, Decimal, Deciedin	
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The Properties page for rules ensures that the values you enter match the type of the variable chosen. The operand adapts to the data, ensuring ease of authoring.

cript (1 of	f 2)	
– The varia – If script a	ect button to choose variables that the script will use ables are "watched" for changes and the script runs when changes oc rea is empty when variables are selected, then a skeleton script is ge	
help the u Script is clier	nt-side only	
Script is clier	ation Errors Where Used	
Script is clier	ation Errors Where Used	2
Script is clier	ation Errors Where Used • Visibility Source: O Value O Rule O Script	
Script is clier	ation Errors Where Used visibility Source: O Value O Rule O Script Run this script when the following variables change: privCust.firstName	Select) (de
Script is clier	ation Errors Where Used visibility Source: Value O Rule O Script Run this script when the following variables change: privCust.firstName function(context, event, local) (this	== the coach obje
Script is clier	ation Errors Where Used visibility Source: O Value O Rule O Script Run this script when the following variables change: privCust.firstName	== the coach obje
Script is clier	ation Errors Where Used • Visibility Source: O Value O Rule O Script Run this script when the following variables change: privCust.firstName function(context, event, local) (this 1// valid return values are REQUIRED, EDITABLE, READONLY, NONE, DEFAULT, HIDDEN 2 // sample code: 3 if (local.get("privCust").get("firstName")=="Grant") (== the coach obje
Script is clier	ation Errors Where Used • Visibility Source: () Value () Rule () Script Run this script when the following variables change: <u>privCust.firstName</u> function(context, event, loca) (this [1// valid return values are REQUIRED, EDITABLE, READONLY, NONE, DEFAULT, HIDDEN 2// sample code: 3 if (local.get ("privCust").get ("firstName")=="Grant") (4 return "HIDDEN";	== the coach obje
Script is clier	ation Errors Where Used • Visibility Source: O Value O Rule O Script Run this script when the following variables change: privCust.firstName function(context, event, local) (this 1// valid return values are REQUIRED, EDITABLE, READONLY, NONE, DEFAULT, HIDDEN 2 // sample code: 3 if (local.get("privCust").get("firstName")=="Grant") (== the coach obje
Script is clier	ation Errors Where Used ation Errors Where Used visibility Source: Value Orale Oscipt Run this script when the following variables change: privCust.firstName function(context, event, loca) (this 1// valid return values are REQUIRED, EDITABLE, READONLY, NONE, DEFAULT, HIDDEN 3 if(local.get("privCust").get("firstName")=="Grant")(4 return "HIDDEN";	== the coach obje

The second new way of specifying visibility is by using client-side JavaScript. The variables on which the script is operating are chosen and the script is called when any of the values change. A skeleton script is generated after you choose the variables. Scripting provides the most flexible means of specifying visibility.



The Properties page for the script style of visibility provides help through a tooltip. It helps you understand the parameters that are passed into the script code.

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Section		
	Summary	
19	Coaches enhancements	© 2013 IBM Corporation

The next slide provides a summary of this presentation on the coaches enhancements in IBM Business Process Manager V8.5.

	IBM
Summary	
 You can use JavaScript code completion to quickly learn the coach API and to spe authoring of code for your coach views 	ed up
 Substitution variables can be used in Custom HTML items to create more dynamic interfaces using the values of data present in the runtime context 	user
 You can reduce memory consumption and improve performance by leveraging pro- level event handlers on coach views 	totype-
 The visibility of items in coaches can be described using client-side JavaScript and rules 	simple
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You learned about the new JavaScript code-completion capabilities and about using substitution variables in Custom HTML items. You also learned how to improve performance using prototype-level event handlers and how to specify the visibility of coach items, using both scripts and rules.

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3.Do you have suggestions f	for improvements?	
	Click to send email feedback:	
mailto:iea@us.ibm	n.com?subject=Feedback_about_BPMV85_Coaches.ppt	
This module is al	so available in PDF format at: <u>/BPMV85_Coaches.pdf</u>	
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