

VANTIQ ACADEMY

NAMING CONVENTIONS

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Vantiq Procedures Elective Class

TOPIC OBJECTIVES

- To Learn Recommended Client-Related Naming Conventions

VantIQ maintains a set of guidelines to advise developers how to best build their Clients on the VantIQ platform. In this video, we'll cover naming and other conventions that make Clients easier to understand and maintain.

AGENDA

- Why Conventions?
- Client Naming Convention
- Widget Naming Conventions

WHY CONVENTIONS?



- Consistency is key
- Err on the side of too much information
- Vital to project maintenance over time!

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Vantiq's naming conventions were developed from long experience with all aspects of the product and have been proven to make it easier for a developer to understand what's in the project and how it works. A standards following well-organized application saves a lot of time over its maintenance life.

CLIENT & PAGE NAMING CONVENTIONS

- Clients should be in packages
- Clients and Pages should have names in Pascal Case, e.g.:
 - Client: com.acme.AlertDashboard
 - Standard Page: AlertPage
 - Popup Page: AlertDetailsPopupPage
- Useful Display Name, too:

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We discuss package naming conventions at length in the Service Development Best Practices class, but here we'll just concentrate on Clients within packages. At every opportunity, do take advantage of the many Description entry points for VantIQ resources; the more that's explained, the easier it is to ramp up another developer to this project.

LAYOUT & BUTTON WIDGET NAMES

<WhatItIs>:<WhatItDoes>

- vrLayoutOrder
- hrLayoutOrder
- accordPeople
- fxdLayoutFloorplan
- flLayoutCards
- grLayoutPeople
- tbLayoutAlerts
- scrLayoutAlertData
- btnSubmitOrder
- mBtnGotoPageInvoice
- mBarTopMenu
- mItemSave

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In naming widgets, the general name construct is an abbreviated widget type, followed by a descriptive name in Pascal Case. So on the left we have examples from the layout widgets: vertical and horizontal, accordian, fixed, flow, grid, tab and scroll, followed by names that provide a clue of their function. On the right, a simple in-line button is designated with be tee en, where as the menu buttons in accordians, or menu bar with menu items, all start with m, and then btn.

DISPLAY WIDGET NAME CODES

<WhatItIs>:<WhatItDoes>

Widget	Name Abbreviation
Text	txt
Icon	icon
Image	img
List	lst
Number	nbr
Viewer	view
Document	doc
HTML	html
Markdown	md

Widget	Name Abbreviation
Map	map
Plan	plan
Table	tbl
Label	lbl
Chat	cht
Conversation	conv
Calendar	cal
Canvas	cnvs

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Now that you've seen the pattern, we'll dispense with the name function part of the convention to focus on the widget identity abbreviations. I should stress that developers do not need to explicitly name each and every widget in their Client, but only those that will be referenced from somewhere else. Thus, if I have an image widget on the page to display different company logos as needed, I'd probably name it "imgLogo" so that I know what it is and have a clue what it's for.

CHARTS, MOBILE & INPUT WIDGET CODES			
<WhatItIs>:<WhatItDoes>			
Chart Widget	Abbr	Mobile Input Widget	Abbr
Gauge	gauge	Audio	aud
Line	line	Video	vid
Column	col	Camera	cam
Bar	bar	Barcode	bcode
Pie	pie	Map	map
		Markup	mrk
		Signature	sig
Input Widget	Abbr		
Date	date		
DateTime	dt		
Currency	curr		
Integer	int		
Real	real		
Decimal	dec		
String	str		
MultiLine	multi		
Checkbox	chkBox		
Droplist	drpLst		
ComboBox	cmbBox		
Radio	radio		
Object	obj		

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These are yet more widget codes for the naming convention. This slide can be used for future reference.

DATASTREAMS & DATA OBJECTS

Data Streams: <WhatItIs>:<WhereItIs_WhatItDoes>

Stream Type	Abbr
Client	ce<PageName_Name>
Data	ds<DatatypeName>
Publish	pb<TopicName>
Resource	re<ResourceName>
Service	se<ServiceName_EventName>
Timed	tm<TimedName>
Paged	pg<DatatypeName_Paged>

Data Objects: use CamelCase, e.g: **customerName**, **statusArray**

The naming convention for Datastreams is a little different from widget names. In the name, where useful, we're also including information about where or how it's being used. Data Objects, being essentially variables, are named in CamelCase.

SUMMARY

- Vantiq's naming and coding conventions are common-sense guidelines for making projects understandable for later application maintenance work.

Every successful application needs maintenance over time. Following the conventions listed in this video will make updates much easier.

KEY URLS/RESOURCES

- Client Builder User's Guide
 - <https://dev.vantiq.com/docs/system/cbuser/>
- Client Builder Reference Guide
 - <https://dev.vantiq.com/docs/system/cbref/>
- Layout Management User's Guide
 - <https://dev.vantiq.com/docs/system/layout/>
- Client Styling User's Guide
 - <https://dev.vantiq.com/docs/system/cbstyling/>

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THANK YOU

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