# Controles: múltiples layouts por fila de un grid.





Developing the mobile application

Designing: Controls in layouts Grids: multiples layouts per row

Cecilia Fernández | GeneXus Training

En el video anterior habíamos empezado a trabajar las particularidades de los controles en los layouts de objetos Smart Devices respecto al uso conocido. Habíamos visto aquellas que hacían a las etiquetas, al uso y manejo de las tablas y a las imágenes.



Ahora estudiaremos el control grid en un aspecto: la posibilidad de variar el diseño de cada fila, para que en cada oportunidad pueda asumir un diseño diferente entre varios posibles.



Lo veremos con un ejemplo.

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Aquí tenemos la aplicación final que está en GXserver. Aquella a la que nos aproximaremos.

Tenemos el List de speakers, con su grid. Queremos que al seleccionar 1 speaker del grid haciendo TAP

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ahora sí la información detallada de ese conferencista.



Por tanto, necesitamos para cada ítem o línea del grid, 2 layouts.

Uno que valga cuando la línea no está seleccionada:

Designing	GeneXus
Controls in layouts	Multiple layouts per row
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Se nos despliega un menú contextual que nos permite entre otras cosas, **agregar un nuevo** layout para el ítem

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Haciéndolo, la primer opción del menú, nos va a permitir seleccionar el layout que queremos editar cada vez

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Aquí, al layout default, le hemos agregado un segundo layout al que le hemos dado el nombre: **Selected**, que incluye una imagen y el currículum vitae del orador

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Hagámoslo en GeneXus.

Haciendo click, vemos que solamente tenemos el Layout default

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# Agreguemos la imagen

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La segunda que es simplemente para dejar espacio: 10 DIPs

La tercera: 65%

Y la última: tan sólo el 15% restante (la de la imagen)

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### Agreguemos ahora el currículum vitae



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Si ahora queremos editar el otro layout, el default, vamos aquí

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Y vemos como tenemos entonces las 2 opciones. En negrita (bold) el que estamos editando en esta oportunidad.. y con esto nos cambiamos al otro layout.

Hasta aquí, hemos definido los 2 layouts



Ahora tenemos que conseguir que cuando la línea está seleccionada, se use este segundo layout (Selected) y no el primero:



Esto se indica con la propiedad del grid Default Selected Item Layout...



que como vemos, por defecto está con el valor: Layout1



Y lo vamos a cambiar al nuevo layout

ų ×

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De esta forma entonces estamos indicando que cada vez que se selecciones una línea del grid



En lugar de utilizar este layout:

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		Selected - Properties	# ×
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Se utilice este otro:



Pero... cuando hacemos TAP sobre la línea para seleccionarla:



¿no habíamos visto que el comportamiento por defecto era llevarnos al Detail de ese orador? Necesitamos deshabilitar ese comportamiento. ¿Dónde se encuentra esto configurado?

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USA Wr. Riengus ta a Symeraia Enginami graduated in the behavior of Engineering of the Environments of the	GRID Selected	Properties # x

En la propiedad **Default Action** del grid.

El valor "Default" que estamos viendo, consiste en llamar al Detail:

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Lo cambiaremos a: None

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De este modo no se invocará a ningún evento como consecuencia de elegir la línea

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Pero... queremos que el usuario pueda acceder al detalle del orador si lo desea.. para eso, lo programamos explícitamente.

Elijamos el layout "Selected":

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Y sobre la imagen con la flecha, elijamos el evento: Tap

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Vemos acá como los controles tienen la posibilidad de programar los eventos touch a los que son sensibles:

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Volveremos al tema eventos, más adelante.

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¿A quién queremos invocar entonces como resultado del Tap?



### Al WorkWith de Smart Devices de Speakers



### Recordemos la sintaxis:

Work With - nivel - y a quién vamos a invocar (en nuestro caso al Detail)



pasándole como parámetro el SpeakerId de la línea (la clave primaria)



Grabamos... y probemos en ejecución lo hecho. F5.

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## Porque al atributo

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El Layout a ser cargado por cada línea del grid, también puede especificarse en Runtime:



y no solamente fijarse en diseño.

Esto se consigue con la propiedad ItemLayout del grid.

Lo veremos en el siguiente ejemplo.

Aquí tenemos la transacción que registra las conferencias, con sus Speakers y sus Tracks:

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Si queremos que si la sesión es una keynote:



además de la información de los tracks en los que la conferencia puede clasificarse:

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aparezca también un resumen de su descripción, como podemos ver para la primera sesión listada (a diferencia de la segunda),



Video filmado con GeneXus X Evolution 3

necesitamos definir además del default, otro layout para los ítems del grid.

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Esto lo hacemos en el evento Load del grid.

## Observemos que la propiedad Default Selected Item Layout

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	Introduction to GeneXus Server				Default Selected Item Layout	Layout1

queda con el valor por defecto:



### Hagámoslo en GX.

Empecemos por importar un xpz



que contiene entre otras cosas, las transacciones para completar nuestro modelo de datos

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Track, Session, Room, Restaurant y la transacción para marcar una sesión como favorita.

También tendrá Data Providers, para poder inicializar con datos esas entidades

🐼 EventDays - GeneXus X			
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Y un Dashboard: MyEventDay

GX EventDays - GeneXus X			
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que va a sobreescribir al que teníamos, puesto que ahora deberá poder invocar a los work with para Smart Devices de las entidades nuevas.

También sobreescribe el objeto Home que teníamos (web) para poder justamente inicializar todos los datos

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Importemos:



#### Ahora reorganicemos y ejecutemos: F5





#### Reorganizamos..

#### Vemos que está generando los archivos de metadata



Video filmado con GeneXus X Evolution 3

### Y empieza a subir a la nube:



Tras lo cual, nos abre el Developer Menu

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Vamos a ejecutar el web panel: Home

Developer menu	
Home  Work With Speaker  Work With Country  Work With Track  Work With Restaurant  Work With Restaurant  Work With Favorite Sessions	
Smart Devices: Application QR code for Knowledge Base Navigator (All devices)	
	Get Knowledge Base Navigator for your device:
KBN Application Url: http://apps2.genexusx.com/lde98736874fab04af1d8d24a6fe89b422	

Y clickear aquí para inicializar las entidades nuevas con datos:

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First Option	Second O	
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Work With Favorite Session	5	
Work With Restaurants		
Work With Rooms		
Work With Sessions		
Work With Speakers		
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por lo que al invocar a los distintos work with



Video filmado con GeneXus X Evolution 3

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### Veremos la información inicializada

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	ž×	Android and 9 the GeneXus Smart Device Generator	Summary of the Android platform, its features and current state. Find out the details of the GeneXus Smart Device Generator for Android. The Android operating System currently leads the global Sart Device market with more than a 5% share and 1.3 million new Android devices activated on a daily basels. With the GeneXus Smart Device Generator you can create applications for this popular platform. Find out the details of this platform and the GeneXus generator.	4	BallRoom B	10/01/14	10/01/14	10:30 AM	11:00 AM	Cardozo Armando	
	ž ×	8 <u>Coffee and</u> SD Projects	We invite you over a cup of coffee to talk about your projects for Smart Devices and our experience with them from the technical	4	BallRoom B	10/01/14	10/01/14	09:30 AM	10:00 AM	Gonzalez Guillermo, Jodal Sebastian,	

Reparemos en alguna conferencia que sea Keynote. Por ejemplo, ésta, la 1, "GeneXus and the technology context" de Nicolás Jodal, que tiene esta descripción de aquí:

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	2	×	8	<u>Coffee and</u> <u>SD Projects</u>	We invite you over a cup of coffee to talk about your projects for Smart Devices and our experience with them from the technical aspects to the strategies we follow for their development.	4	<u>BallRoom B</u>	10/01/14	10/01/14	09:30 AM	10:00 AM	Gonzalez Guillermo, Jodal Sebastian, Cardozo Armando	
	2	×	4	Design and Development: searching for integration	What is the process we currently apply to develop SD applications? We will be sharing the experience of the past year in design and development for SD applications.	3	BallRoom A	09/30/14	09/30/14	09:00 AM	09:30 AM	Cimas Alejandro, Guedes Lucia, Bonilla Fabian, Blengio Alejandro	8
	2	×	1	GeneXus and the technology context	Smart Devices, Windows 8, GeneXus X Evolution 2 and GeneXus Tilo. Questions, answers and overview.	3	BallRoom A	09/29/14	09/29/14	09:15 AM	10:00 AM	Jodal Nicolas	×
	z	×	5	<u>GeneXus:</u> <u>reviewing its</u> <u>theoretical</u> <u>foundations</u>	Theoretical foundations 23 years later	2	<u>Renoir</u>	09/30/14	09/30/14	11:45 AM	12:30 PM	Gonda Breogan	×
	2	×	2	Introduction to BPM in GeneXus	Presentation of the version GXflow X Evolution 2 that allows developing applications based on Workflow & BPM. Ideal for those who have no knowledge about these tools.	1	<u>Picasso</u>	09/29/14	09/29/14	11:00 AM	11:30 AM	Fernandez Gonzalo	
					Presentation of GeneXus Server, with an explanation of								

Si ahora probamos este mismo "work with" pero para la aplicación móvil





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	Ideal for those who have no		
	knowledge about these tools.		
	Presentation of GeneXus Server, with an explanation of		

Vemos que para esa conferencia, no se está mostrando la descripción, a pesar de ser Keynote.

Queremos que al cargar cada línea del grid, se utilice un layout u otro, dependiendo del valor de ese atributo.

Vamos al work with, al list:



Y aquí vemos que tenemos únicamente un layout por el momento



#### Vamos a agregar un nuevo layout





### Al que le vamos a llamar: keynote



Y al que simplemplemente vamos a agregarle la descripción: SessionDescription



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A quien vamos permitir expandirse a lo largo de las 2 columnas



Así como crecer de acuerdo a su necesidad



Así tenemos ahora entonces 2 layouts.

Si observamos la propiedad del grid que indica cuál va a ser el layout default que indica que se va a cargar cuando el ítem esté seleccionado

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Vemos que es: Layout1, y no lo vamos a modificar, porque no nos interesa esta vez variar el layout de acuerdo a la selección.

Nos interesa variar el layout de acuerdo al contenido del elemento de información que se está cargando en cada oportunidad.

Por tanto, esto tiene que ser hecho dinámicamente en el lugar apropiado, esto es: dentro del evento Load



Este evento ya estaba programando las clases que iban a sumir los diferentes controles que están en el layout, que tienen que ver con el efecto ese de coloreado de las tablas



### Ahora entonces, vamos a especificar



que si el atributo SessionIsKeynote

🐼 EventDays - GeneXus X					
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es True, entonces, al grid de nombre Grid1





para el ítem que se está cargando en esa oportunidad, le vamos a asignar el layout denombre "keynote"



Y en caso contrario no indicamos nada, lo que vendrá a significar que se cargará con el layout por defecto.



### Probémoslo. F5.







Por último mencionemos que entre las propiedades del grid, se encuentra la Selection Type

GeneXus

Controls in layouts			Multiple layouts per row
		Platform Default:	•Uses the platform default behavior. •This is the default value.
Properties           2           Filter           Grid: Grid1         Control Name	무 ×	Auto Deselect:	<ul> <li>The grid's Highlighted Background color is shown while the user interacts with the control.</li> <li>The <u>Default Selected Item Layout</u> is not going to be shown even if it is defined or not.</li> </ul>
Collection Default Action Show Selector Selection Type Selection Flag Platfo Selection Flag Field Spec Default Selected Item La Keep Control Tefa Keep Control Tefa Keep Control Tefa Keep Control Tefa Control Co	<default> Platform Default Platform Default T m Default deselect selection while executing until new selection</default>	Keep Selection While Executing:	<ul> <li>If the <u>Default Selected Item Layout</u> is defined it is shown, if not, the grid's Highlighted Background color is shown.</li> <li>The selection ends when the Default Action ends.</li> <li>This value only makes sense when the Default Action of the Grid is defined.</li> <li>If an item is selected, and the user selects it again, the item is still going to be selected and the Default Action of the Grid is executed again.</li> </ul>
		Keep Until New Selection:	<ul> <li>If the <u>Default Selected Item Layout</u> is defined it is shown, if not, the grid's Highlighted Background color is shown.</li> <li>The selection ends when another selection is done.</li> <li>This value only makes sense when the <u>Default Selected Item Layout</u> is defined.</li> <li>If an item is selected, and the user selects it again, the item is going to be deselected and the Default Action is executed again</li> </ul>

que permite indicar el comportamiento cuando se selecciona una línea (un ítem) del grid.

### Observe los valores

Designing

Designing		GeneXus
Controls in layouts	Platform Default:	•Uses the platform default behavior. •This is the default value.
Properties 3 X Control Name Grid1	Auto Deselect:	•The grid's Highlighted Background color is shown while the user interacts with the control. •The <u>Default Selected Item Layout</u> is not going to be shown even if it is defined or not.
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	Keep Until New Selection:	•If the <u>Default Selected Item Layout</u> is defined it is shown, if not, the grid's Highlighted Background color is shown. •The selection ends when another selection is done. •This value only makes sense when the <u>Default Selected Item Layout</u> is defined. •If an item is selected, and the user selects it again, the item is going to be deselected and the Default Action is executed again

Dependiendo de cada uno y de si se ha definido un layout diferente del default en la propiedad **Default Selected Item Layout** que habíamos visto

GeneXus

Controls in layo	uts		Multiple layouts per row		
		Platform Default:	•Uses the platform default behavior. •This is the default value.		
Properties  Control Name Properties	۵ X	Auto Deselect:	•The grid's Highlighted Background color is shown while the user interact with the control. •The <u>Default Selected Item Layout</u> is not going to be shown even if it is defined or not.		
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Contro d'110		Keep Until New Selection:	•If the <u>Default Selected Item Layout</u> is defined it is shown, if not, the grid's Highlighted Background color is shown. •The selection ends when another selection is done. •This value only makes sense when the <u>Default Selected Item Layout</u> is defined. •If an item is selected, and the user selects it again, the item is going to be		

Y también dependiendo del valor de la propiedad Default Action

	Designing			GeneXus
	Controls in layout	s		Multiple layouts per row
			Platform Default:	•Uses the platform default behavior. •This is the default value.
	Properties  Control Name Properties	Ģ X	Auto Deselect:	<ul> <li>The grid's Highlighted Background color is shown while the user interacts with the control.</li> <li>The <u>Default Selected Item Layout</u> is not going to be shown even if it is defined or not.</li> </ul>
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	- Control Info		Keep Until New Selection:	<ul> <li>If the <u>Default Selected Item Layout</u> is defined it is shown, if not, the grid's Highlighted Background color is shown.</li> <li>The selection ends when another selection is done.</li> <li>This value only makes sense when the <u>Default Selected Item Layout</u> is defined.</li> <li>If an item is selected, and the user selects it again, the item is going to be deselected and the Default Action is executed again</li> </ul>

será el comportamiento.

Designing

Si desea ahondar en este tema

GeneXus

Controls in layou	ts			Multiple layouts per row	
			Platform Default:	•Uses the platform default behavior. •This is the default value.	
Properties		<b>д Х</b>	Auto Deselect:	•The grid's Highlighted Background color is shown while the user interacts with the control. •The <u>Default Selected Item Layout</u> is not going to be shown even if it is	
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Default Action Show Selector	<default></default>		<ul> <li>If the <u>Default Selected Item Layout</u> is defined it is shown, if not, the gri Highlighted Background color is shown.</li> </ul>		
Selection Type Selection Flag Plu Selection Flag Field Speci A Default Selected Item La Control Infn Ke	Platform Default Alform Default uto deselect eep selection while exect eep until new selection	uting	Keep Selection While Executing:	<ul> <li>The selection ends when the Default Action ends.</li> <li>This value only makes sense when the Default Action of the Grid is defined.</li> <li>If an item is selected, and the user selects it again, the item is still go to be selected and the Default Action of the Grid is executed again.</li> </ul>	
Concerne			Keep Until New Selection:	<ul> <li>If the <u>Default Selected Item Layout</u> is defined it is shown, if not, the grid's Highlighted Background color is shown.</li> <li>The selection ends when another selection is done.</li> <li>This value only makes sense when the <u>Default Selected Item Layout</u> is defined.</li> </ul>	

sugerimos visite nuestro wiki.

Designing



Hemos estudiado aquí la posibilidad de definir varios layouts para las líneas de un grid y elegir cuál se cargará en cada oportunidad. Paralelamente hemos visto cómo configurar las características de la selección.

En el próximo video, veremos la posibilidad de modificar para un control, su tipo, para que luzca y se comporte de una manera diferente a la predefinida.



