



From CPI to CPIX

Gerrit de Bolster



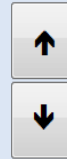
Statistics Netherlands

From CPI...



CPI Manager 0.9.6 - Survey period: January ten. - Article list EL TROPICAL RESTAURANT, Done: 0 of 20

St	Article
▶	bami, Bami goreng grandi, 1 st
	bier, GUINNESS, Guinness stout per flesje 330ml, 1 consumptie
	bier, AMSTEL, Bier per flesje 25cl, 1 consumptie
	bier, POLAR, Bier per flesje 237ml, 1 consumptie
	bier, HEINEKEN, Bier per flesje 25cl, 1 consumptie
	Fried rice, Fried rice chikitu, 1 st
	loempia, Lumpia, 1 st
	maaltijd kip, Chicken chicharon chikitu, 1 st
	maaltijd kip, Sweet & sour chicken chikitu, 1 st



1:20

Restaurants binnenland

zonder merk, bami, 1 st

Bami goreng grandi, 1 st, \$10,00

Qty st

Route

to be done

Undo	1	2	3
Add	4	5	6
Note	7	8	9
Search	,	0	⊗
	←	→	Del



...to CPIX

Consumer price index

MORE FOR LESS

- commodity 1 - 10 of 428, done 0

Commodity	Index	Actions
maggi, MAGGI (DE ENIGE ECHTE), Maggi fles? (echte fles, 0,2 l, \$3,50		= - X ...
shampoo, Palmo, ive, 400 g		= - X ...
pizza, , Wagner (Cheese & Onion), 1 st	1	= - X ...
Bruine rijst, BLUE RIBBON, 2 lbs, \$1,61	1,1	= - X ...
Bruine rijst, BLUE RIBBON, 10 lbs, \$8,80	1,1	= - X ...
Bruine rijst, BLUE RIBBON, 5 lbs, \$4,40	1,1	= - X ...
Bruine rijst, BLUE RIBBON, 20 lbs, \$17,05	1,1	= - X ...
Bruine rijst, spap, basmati RIJST, 1000 g	1,1	= - X ...
Witte rijst, BLUE RIBBON, 5 lbs, \$3,85	1,1	= - X ...
Witte rijst, BLUE RIBBON, 2 lbs, \$1,53	1,1	= - X ...



Consumer Price Index (CPI)

- Monthly survey
- Every interviewer gets every month a unique list of shops
- For each shop a list of products
- Checking:
 - Shop closed/re-opened
 - Product
 - Availability (temporary not/not anymore: new product)
 - Price (equal/higher/lower)
 - Quantity (equal/more/less)

First implementation: Stand alone

- Introduction end of 2013
- Maniplus 4.8 solution
 - Based on dialog boxes
 - Small shell for import new list, export completed list
 - Download from and upload to the office using separate means
- Still in production

Blaise 5 implementation (CPIX)

- Use of the CAPI Logistics System (CPLS: see IBUC 2015)
- Blaise 5 form instead of Maniplus solution
- Running as DEP stand alone mode on Windows tablets
- Experiment to learn Blaise 5: not in production



Inline table (1)

aVariants

```
"<table><column width=525><column width=*><row><cell>^ShopName<br>- ^{aHeader}</cell>
<cell>^{aNavigation}</cell></row></table>
<table><column width=20><column width=*><column width=70><column width=225>
<row background=#FFECECEC><cell>^{aStatus[1]}</cell><cell>^{aVariant[1]}</cell><cell>^{aLocation[1]}</cell><cell>
^{aImg1[1]} ^{aImg2[1]} ^{aImg3[1]} ^{aImg4[1]}</cell></row>
<row><cell>^{aStatus[2]}</cell><cell>^{aVariant[2]}</cell><cell>^{aLocation[2]}</cell><cell>
^{aImg1[2]} ^{aImg2[2]} ^{aImg3[2]} ^{aImg4[2]}</cell></row>
...
<row background=#FFECECEC><cell>^{aStatus[7]}</cell><cell>^{aVariant[7]}</cell><cell>^{aLocation[7]}</cell><cell>
^{aImg1[7]} ^{aImg2[7]} ^{aImg3[7]} ^{aImg4[7]}</cell></row>
<row><cell>^{aStatus[8]}</cell><cell>^{aVariant[8]}</cell><cell>^{aLocation[8]}</cell><cell>
^{aImg1[8]} ^{aImg2[8]} ^{aImg3[8]} ^{aImg4[8]}</cell></row>
<row background=#FFECECEC><cell>^{aStatus[9]}</cell><cell>^{aVariant[9]}</cell><cell>^{aLocation[9]}</cell><cell>
^{aImg1[9]} ^{aImg2[9]} ^{aImg3[9]} ^{aImg4[9]}</cell></row>
<row><cell>^{aStatus[10]}</cell><cell>^{aVariant[10]}</cell><cell>^{aLocation[10]}</cell><cell>
^{aImg1[10]} ^{aImg2[10]} ^{aImg3[10]} ^{aImg4[10]}</cell></row>
</table>"
```

: SET OF (_yes),EMPTY,NODK,NORF



Inline table (2)

MORE FOR LESS

- commodity 1 - 10 of 428, done 0



```
<table>
```

```
  <column width=525><column width=*>
```

```
  <row>
```

```
    <cell>^ShopName<br>- ^{aHeader}</cell>
```

```
    <cell>^{aNavigation}</cell>
```

```
  </row>
```

```
</table>
```

Inline table (3)

MORE FOR LESS

- commodity 1 - 10 of 428, done 0

**aHeader := 'commodity '+STR(aNr)+' - '+STR(aNrEnd)+
' of '+STR(NrMax)+'', done '+STR(aStatusCount)**

aHeader := 'closed'

MORE FOR LESS

- closed

Inline table (4)



aNavigation :=

```
'<img source=FirstSmall OnClick="\{Action AssignField(aNr, \'-6\')}\}">'+  
' <img source=PreviousSetSmall OnClick="\{Action AssignField(aNr, \'-5\')}\}">'+  
' <img source=PreviousSmall OnClick="\{Action AssignField(aNr, \'-4\')}\}">'+  
' <img source=JumpUp OnClick="\{Action AssignField(aJump, \'-1\')}\}">'+  
' <img source=JumpDown OnClick="\{Action AssignField(aJump, \\'1\')}\}">'+  
' <img source=NextSmall OnClick="\{Action AssignField(aNr, \'-3\')}\}">'+  
' <img source=NextSetSmall OnClick="\{Action AssignField(aNr, \'-2\')}\}">'+  
' <img source=LastSmall OnClick="\{Action AssignField(aNr, \'-1\')}\}">'+  
'<space count=3><img source=Search OnClick="\{Action  
GotoURI(\'+REPLACE(aKBopen, '\\', '\\\\')+  
'\');AssignField(SearchVariant.aSearchNext, \\'0\');SetParallel(\\'SearchVariant\')}\}">'+  
'<space count=4>  
<img source=Lock OnClick="\{Action AssignField(ShopClosed, \\'1\')}\}">
```



Inline table (5)



```
aNavigation := '<img source=Unlock onClick="{Action  
AssignField(ShopClosed,\'0\');AssignField(aNrCur,\'0\')}">'
```

Action images (1)

<img

source=FirstSmall

OnClick="{Action AssignField(aNr, \'-6\')}">

<img

source=Search

OnClick="{Action

GotoURI('\'+REPLACE(aKBopen, '\\', '\\\\')+\'');

AssignField(SearchVariant.aSearchNext, \\'0\');

SetParallel(\'SearchVariant\')}">

Action images (2)

```
<table>  
<column width=20><column width=*><column width=70><column  
width=225>  
<row background=#FFECECEC>  
  <cell>^{aStatus[1]}</cell>  
  <cell>^{aVariant[1]}</cell>  
  <cell>^{aLocation[1]}</cell>  
  <cell>^{almg1[1]} ^{almg2[1]} ^{almg3[1]} ^{almg4[1]}</cell>  
</row>
```

...

Action images (3)

Consumer price index

MORE FOR LESS

- commodity 1 - 10 of 428, done 2

Commodity	Index	Actions
maggi, MAGGI (DE ENIGE ECHTE), Maggi fles? (echte fles, 0,2 l, \$3,50		= - X ...
shampoo, Palmo, ive, 400 g		= - X ...
pizza, , Wagner (Cheese & Onion), 1 st	1	= - X ...
> Bruine rijst, BLUE RIBBON, 2 lbs, \$1,61	1,1	...
Bruine rijst, BLUE RIBBON, 10 lbs, \$8,80	1,1	= - X ...
Bruine rijst, BLUE RIBBON, 5 lbs, \$4,40	1,1	= - X ...
Bruine rijst, BLUE RIBBON, 20 lbs, \$17,05	1,1	= - X ...
Bruine rijst, spap, basmati RIJST, 1000 g	1,1	= - X ...
<< Witte rijst, BLUE RIBBON, 5 lbs, \$3,85	1,1	...
Witte rijst, BLUE RIBBON, 2 lbs, \$1,53	1,1	= - X ...



Edit product screen (1)

Consumer price index

MORE FOR LESS: Commodity 4

Rijst

- BLUE RIBBON, MAHATMA, e.a., Bruine rijst, 2 lbs
- BLUE RIBBON, Bruine rijst, 2 lbs, \$1,61
- BLUE RIBBON, Bruine rijst, 2 lbs, \$2,00 [>]

Brand

Notes

Variant

Quantity \$

Aisle



Edit product screen (2)

Page 1	
<i>Commodity[1] (Groupable)</i>	
aProduct	
VarInfo [TableRow]	
Variant [TableRow]	
Var_Brand	
Var_Variant	
Notes	
gProperties [TableRow]	
Var_Qty	
Var_Unit	
Price	
Location	
aSave	
aReset [TableRow]	

Search function



Search ← →

tonijn (blikje), Sa pac, tuna shredded in water, 425 g, \$1,75	...
tonijn (blikje), PERFECT CATCH, tuna in stukken water, 130 g, \$2,35	...
mondwater, colgate, plax, 600 ml	...
mondwater, COLGATE, Mondwater -plax original-, 500 ml, \$6,75	...
mondwater, ander, mondwater antibac -gold-, 33,8 oz	...
mondwater, Listerine, Cool mint, 500 ml, \$7,35	...

IF POSITION(UPPERCASE(aSearch),UPPERCASE(aSearchString)) > 0 THEN



Search function



<img

source=Edit

stretch=\Center

height=34

OnClick=\{Action

GotoURI(\'+REPLACE(aKBclose,\'\',\'\\\\\')+\'');

AssignField(aNr, \'+STR(x)+\'');

SetParallel(\')}\>

On Screen Keyboard (1)

Consumer price index

MORE FOR LESS: Commodity 176

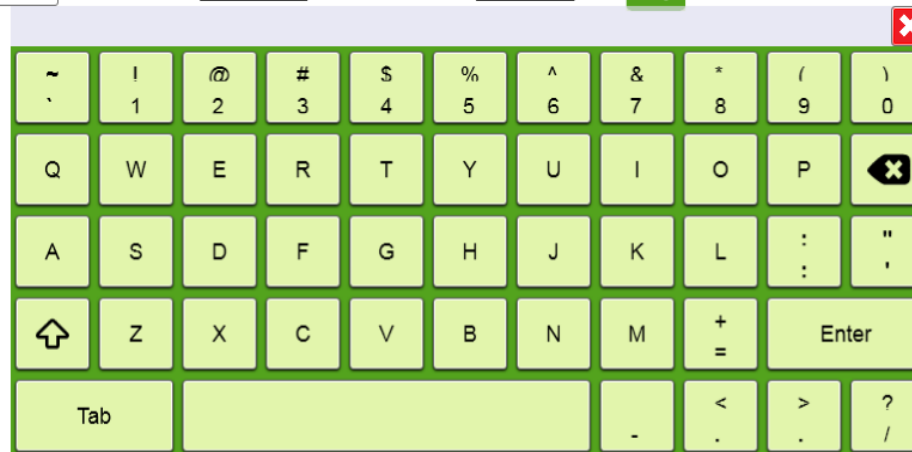
Toiletartikelen

- diverse merken, stuk zeep, 1 st
- camay, toiletzeep, 150 g

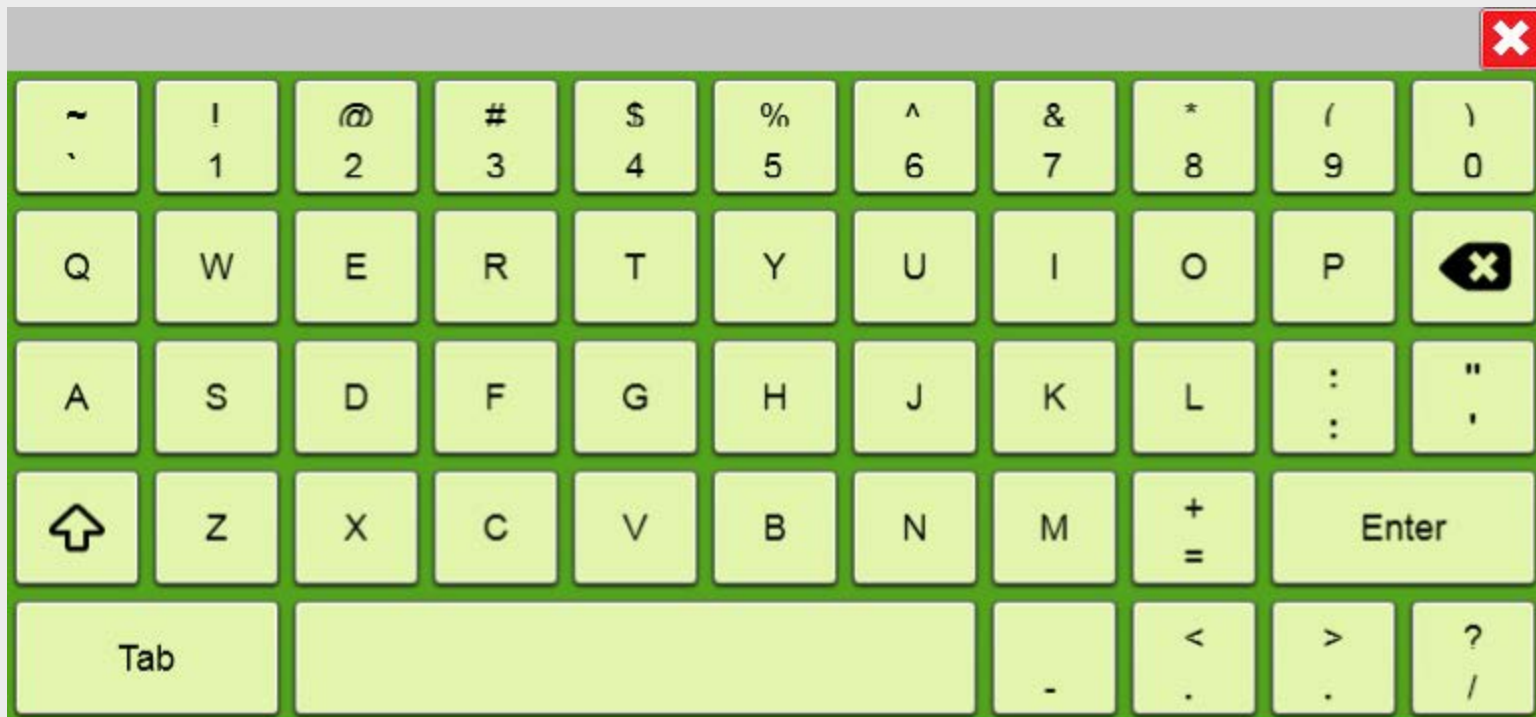
Brand Notes

Variant

Quantity \$ Aisle



On Screen Keyboard (2)



On Screen Keyboard (3)

```
<?xml version="1.0" encoding="utf-8"?>
<UserControl
xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
xmlns:sys="clr-namespace:System;assembly=microsoft.windows.common-usercore.dll"
Height="200"
Width="768" > <!-- keyboard height, width -->
<UserControl.Resources>
<!-- keyboard bottom margin -->
<sys:Int32 x:Key="BottomMargin">80</sys:Int32>
<!-- keyboard center offset -->
<sys:Int32 x:Key="CenterOffset">0</sys:Int32>
<DropShadowEffect
x:Key="DropShadowEffect"
ShadowDepth="1"
Direction="-90"
BlurRadius="3" />
```



Conclusion

With Blaise 5 it is now possible to create very exotic instruments. Although not always easy the CPIX proves the richness and power of Blaise 5. The only things you need are a creative mind and a solid knowledge of the Blaise language and layout functions. The creative mind is given to you by birth 😊 (or not 😞), the solid knowledge is a matter of learning and practicing.