



# Uniface 9.6 + 2013/2014

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UNIFACE USER EVENTS

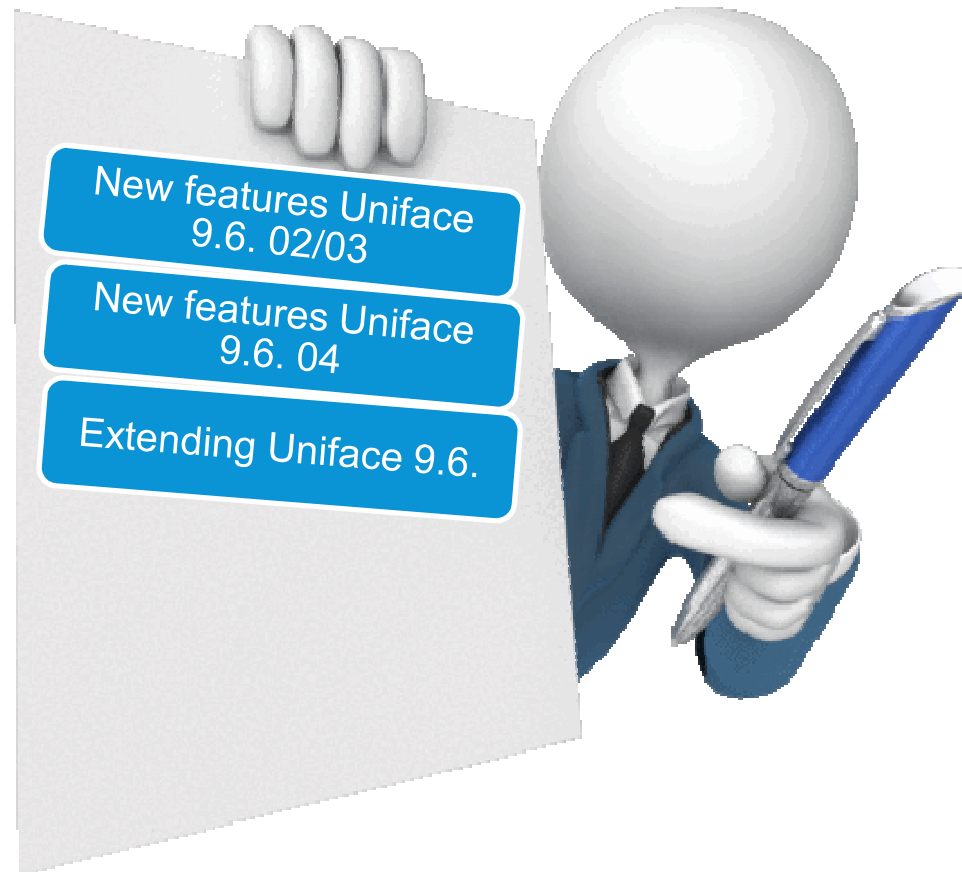
UNIFACE 9.6

UNIFACE 10

MODERNIZATION



# Agenda



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# Features Uniface 9.6. 02/03

## Struct as parameter

Structs can be passed as parameters:

- By reference (Default: partner operations and entries)
- By value (Default: public operations)
- Behavior can be changed during declaration
  - By reference only works with local instances

“Null” is represented as a collection of zero references



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# Features Uniface 9.6. 02/03

## Startup Shell

- Hide Message Line
  - Dynamic via proc code
- Remove scroll bars (ini file setting)

[application]

shell=ushell(scrollbars=off)



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# Features Uniface 9.6. 02/03

## HTML5-Container

- Javascript type parameters in JS call
- \$widgetoperation parameters mapped and translated to a JavaScript data type

### Uniface

Boolean

Date

DateTime

Float

Image

Numeric

Raw

String

Time

XmlStream

### JavaScript

Boolean

Date

Date (local time)

Number

base64 encoded string

Number

base64 encoded string

String

Date but only time part set

String



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# Features Uniface 9.6. 02/03

\$fieldproperties attach

- HMOVE,VMOVE,HSIZE,VSIZ

Form Container and Tabex resize event

- extended Trigger

```
trigger Resized
params
    numeric widthPx      : in
    numeric heightPx     : in
endparams

<your code>

end ; trigger Resized
```



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# Show me how that works



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# Features Uniface 9.6. 02/03

## Unicode Support

- Drivers
  - TXT
  - DB2 also supports pagination
  - UHTTP



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# Features Uniface 9.6. 02

## GUI

- Message line hiding
- Padding around labels
- Specify margin size around attached widgets
- Checkbox supports attach and transparency
- Radio group supports transparency
- Active Tab Line Color property for Extended Tab  
(Introduced to highlight tabs without images)

## Web

- uniface.DSPInstance renamed to uniface.instance, old name remains for compatibility



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# Features Uniface 9.6. 03

## GUI

- Radio group supports attach and attach margin
- Form container and TabEx new on resize extended trigger
- DB2 supports paging

## Web

- USP enhanced so that labels can be bound to fields
- USP XHTML attributes to generate ids + supported assignment file settings



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# Features Uniface 9.6 - X301

## SOAP connector

- \$signatureproperties

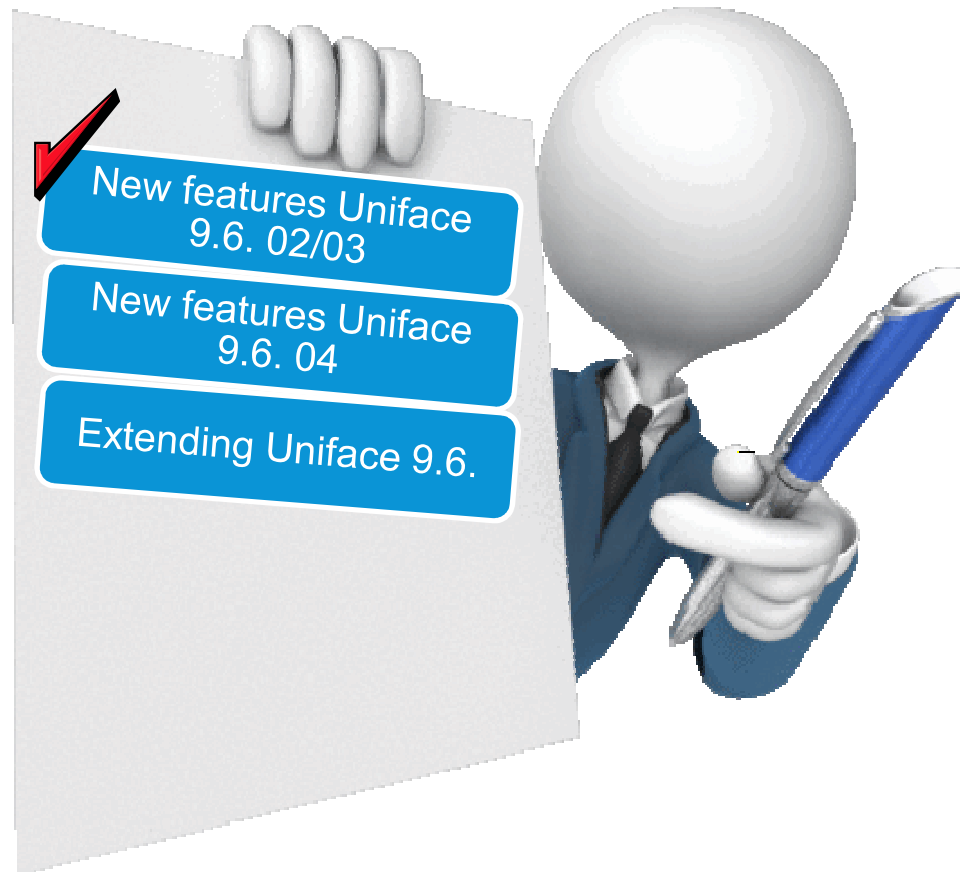
## Currency

- Oracle: 1000 fields per table (before 254)



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# Features Uniface 9.6. 04

New proc instructions

- STRUCTTOJSON
- JSONTOSTRUCT

subswitches

<none> - output formatted for easier reading

/whitespace – Expands output for easier reading

/bmp - characters outside of the Unicode BMP  
(Basic Multilingual Plane)range are escaped

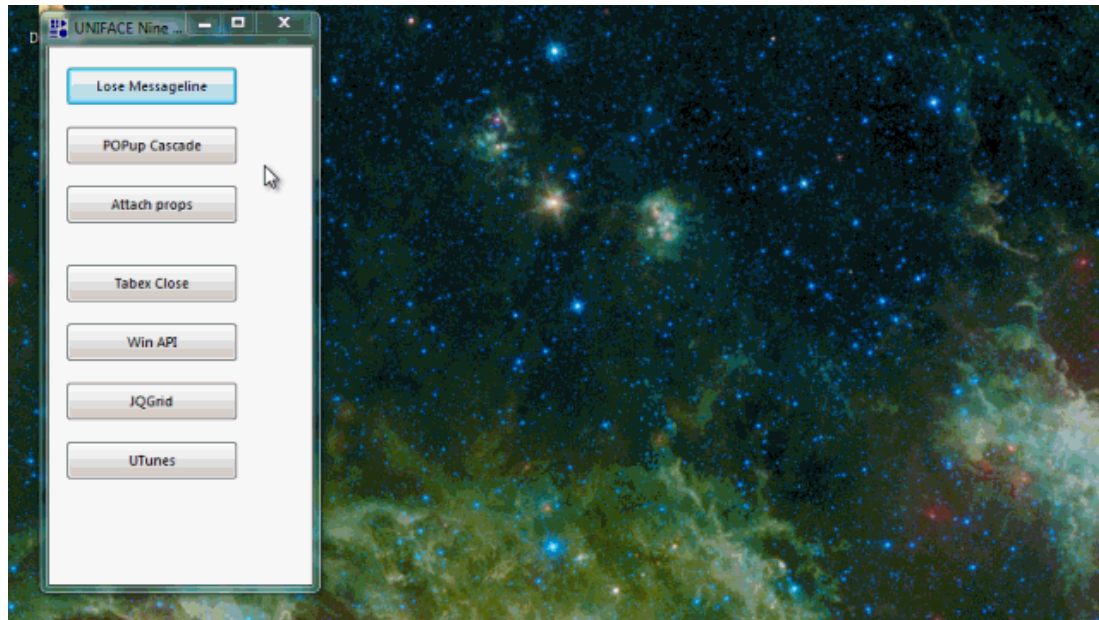


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# Features Uniface 9.6. 04

POPUP Form cascade





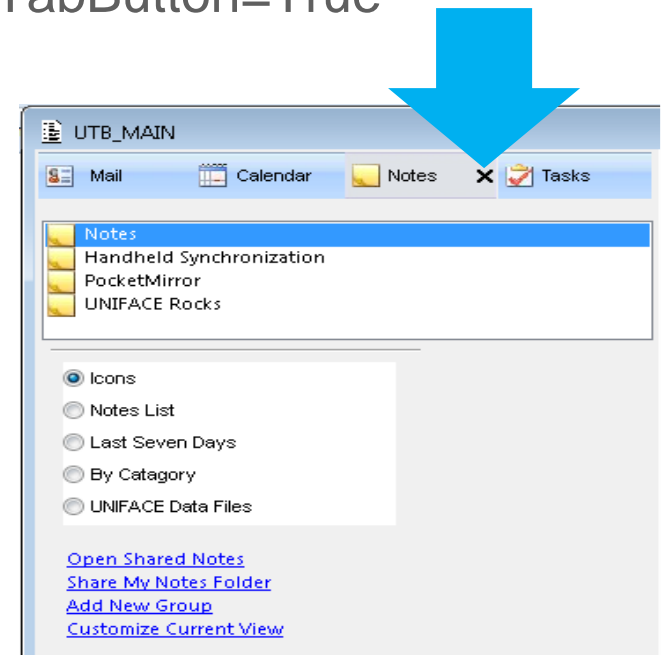
# Features Uniface 9.6. 04

## Close option on extended TAB

Set via \$FIELDPROPERTIES(UTAB) = "TabButton=True"

Extended trigger fired when clicked

```
trigger onTabButton
...
vcurrvalrep=$valrep(utb)
delitem/id vcurrvalrep, utb
getitem vfirst, vcurrvalrep, 1
utb=$idpart(vfirst)
deleteinstance utb
$valrep(utb)=vcurrvalrep
....
end ; trigger onTabButton"
```



## Ability to change Image via \$fieldproperties

"TabButtonImg", "@CloseBtn.png"

"TabButtonImgHover", "@CloseBtnHover.png"





# Features Uniface 9.6. 04

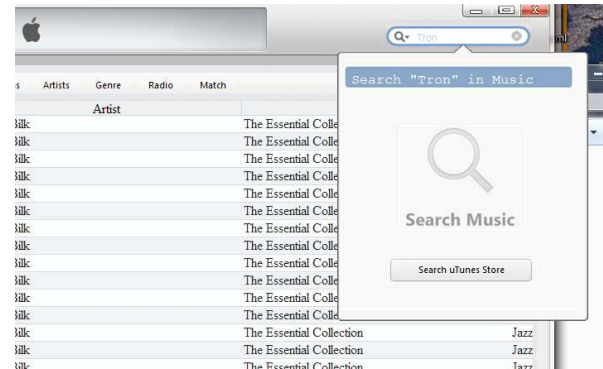
## Editbox OnEdit extended trigger

- Speed Search
- Fired 200ms after user starts modifying field content
  - EditDelay=True
- Contents of field passed to trigger (field value)
- Enabled via INI setting

SearchEditBox=ueditbox(font=editfont;onEdit=true)

```
; -- start triggers for editbox widget  
trigger onEdit
```

```
end ; trigger onChar
```





# Show me how that works



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# Features Uniface 9.6. 04

## Database and Currency

- sql/data: returns data as a nested Uniface list
- MSS U5.0 connector on Linux



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# Features Uniface 9.6 – X401

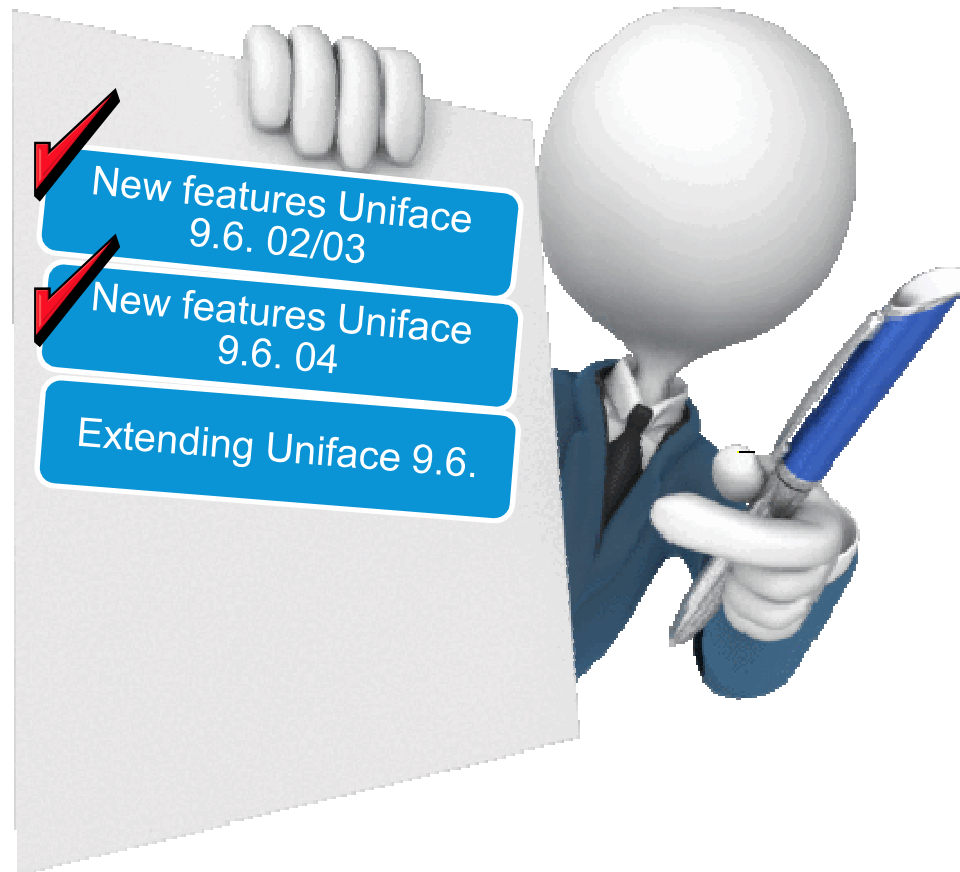
## GUI

- edit/nofocus
  - Instance property InitialFocus
- Drop Down List widget in Grid
  - Active Background Color (BackColorSelect)
  - Active Foreground Color (ForeColorSelect)
  - Gradient Fill Style (BackcolorFill)



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# Extending Uniface 9.6 +

Using alternate Technologies – Is it real or is it Uniface?

- Interfacing Windows API
- HTML based JQGrid



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# Extending Uniface 9.6 +

- Windows API
  - ✓ No 3-GL dlls
  - ✓ Uniface signatures only
  - ✓ Helps eliminate that annoying.....  
“The application sXs configuration is incorrect.....Blah,  
Blah, Blah”



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# Extending Uniface 9.6 +

- ✓ Can deliver:
  - Transparency
    - Startup Shell/Forms/Field
  - Form Opacity
  - Application/Form Desktop Hiding
  - Form Entrance/Exit effects
  - Form size, Min, Max.

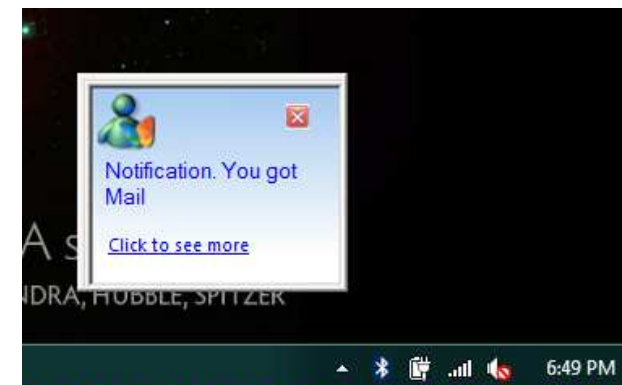
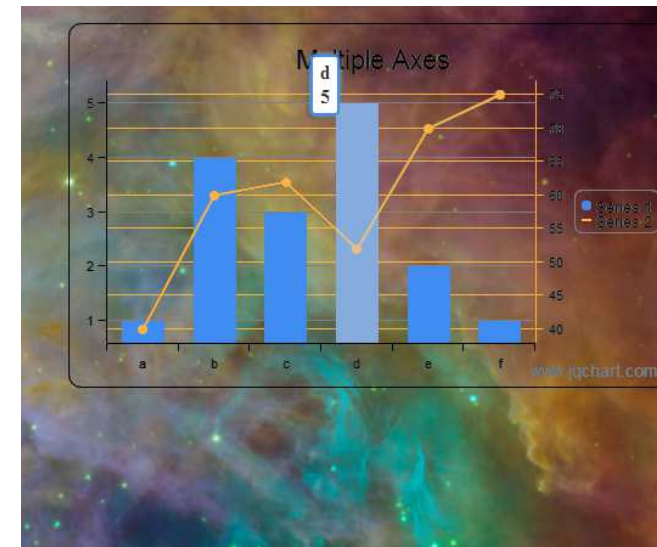


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# Extending Uniface 9.6 +

## Windows API Effects





# Extending Uniface 9.6 +

OK so what's the “down side”?

It's unsupported by Uniface

Support from Microsoft at extra cost same as using 3-GL/.Net

You need knowledge of Windows and Win API

On a positive note you will get to appreciate what Uniface does for you



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# Show me how that works



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# Extending Uniface 9.6 +

## JQGRID

- Based on JQuery delivers HTML5/CSS/JavaScript grid.
- Embedded via HTML5 container
- No web server required

Why JQGrid?

It's JavaScript based so it will run in our HTML5 container

There are others:

DOJO, JQGRID, DataTables, EditableGrid, Flexigrid, Inigrid, Slickgrid, Tablesorter, Recline, Backgrid, JqxGrid, Gridster  
.....etc



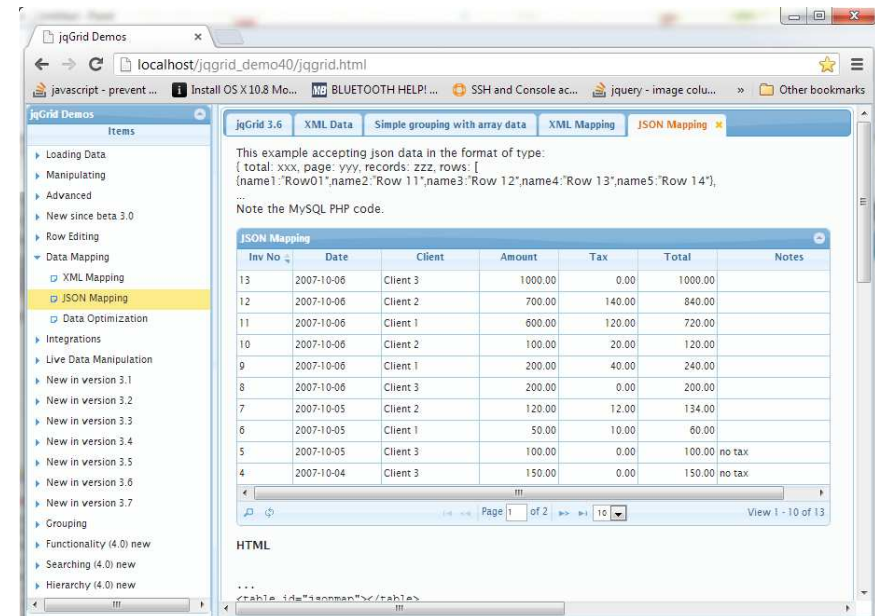
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# Extending Uniface 9.6 +

## Many features including

- Multiple data sourcing XML/JSON/Arrays etc
- Inline field updating
- Column sorting
- Data Paging
- Column reordering including drag-n-drop options
- Grouping Headers/Trailers
- Sub Grids
- RTL Support
- Table to Grid
- And lot's more



The screenshot shows a web browser window titled "jqGrid Demos" displaying the "JSON Mapping" tab. The page shows a table with 7 columns: Inv No, Date, Client, Amount, Tax, Total, and Notes. The table contains 13 rows of data. Below the table, there is a pagination control showing "Page 1 of 2" and "View 1 - 10 of 13".

Inv No	Date	Client	Amount	Tax	Total	Notes
13	2007-10-06	Client 3	1000.00	0.00	1000.00	
12	2007-10-06	Client 2	700.00	140.00	840.00	
11	2007-10-06	Client 1	600.00	120.00	720.00	
10	2007-10-06	Client 2	100.00	20.00	120.00	
9	2007-10-06	Client 1	200.00	40.00	240.00	
8	2007-10-06	Client 3	200.00	0.00	200.00	
7	2007-10-05	Client 2	120.00	12.00	134.00	
6	2007-10-05	Client 1	50.00	10.00	60.00	
5	2007-10-05	Client 3	100.00	0.00	100.00	no tax
4	2007-10-04	Client 3	150.00	0.00	150.00	no tax

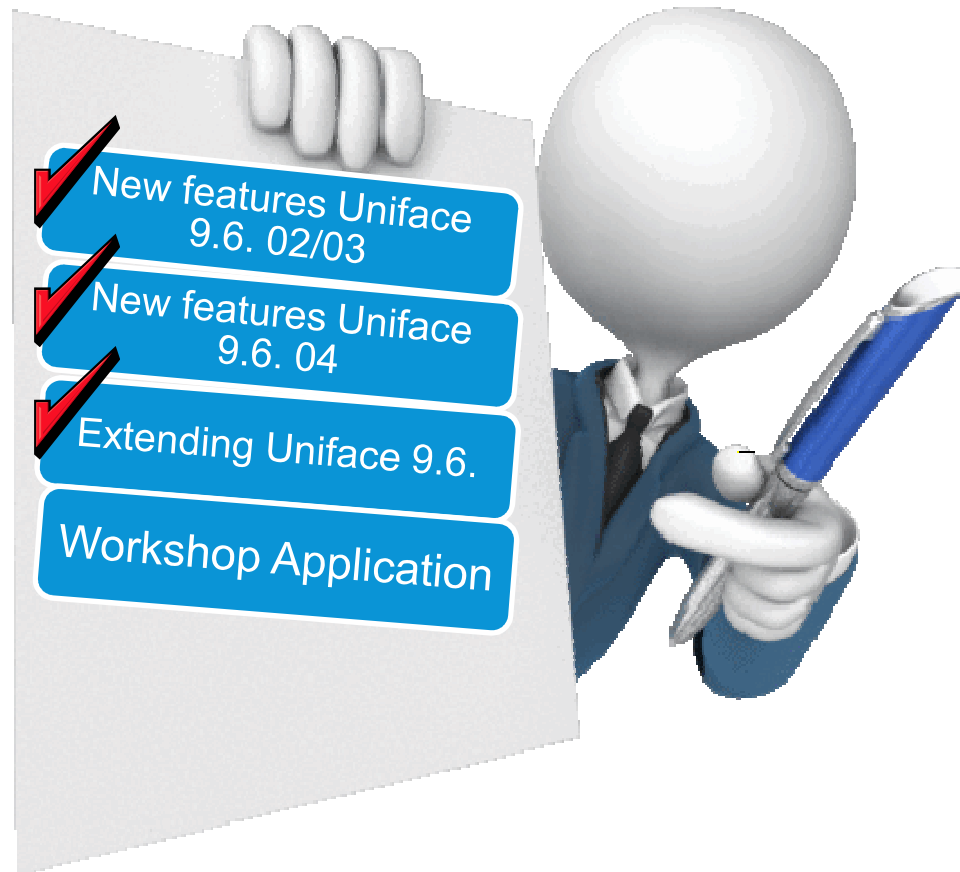


# Show me how that works



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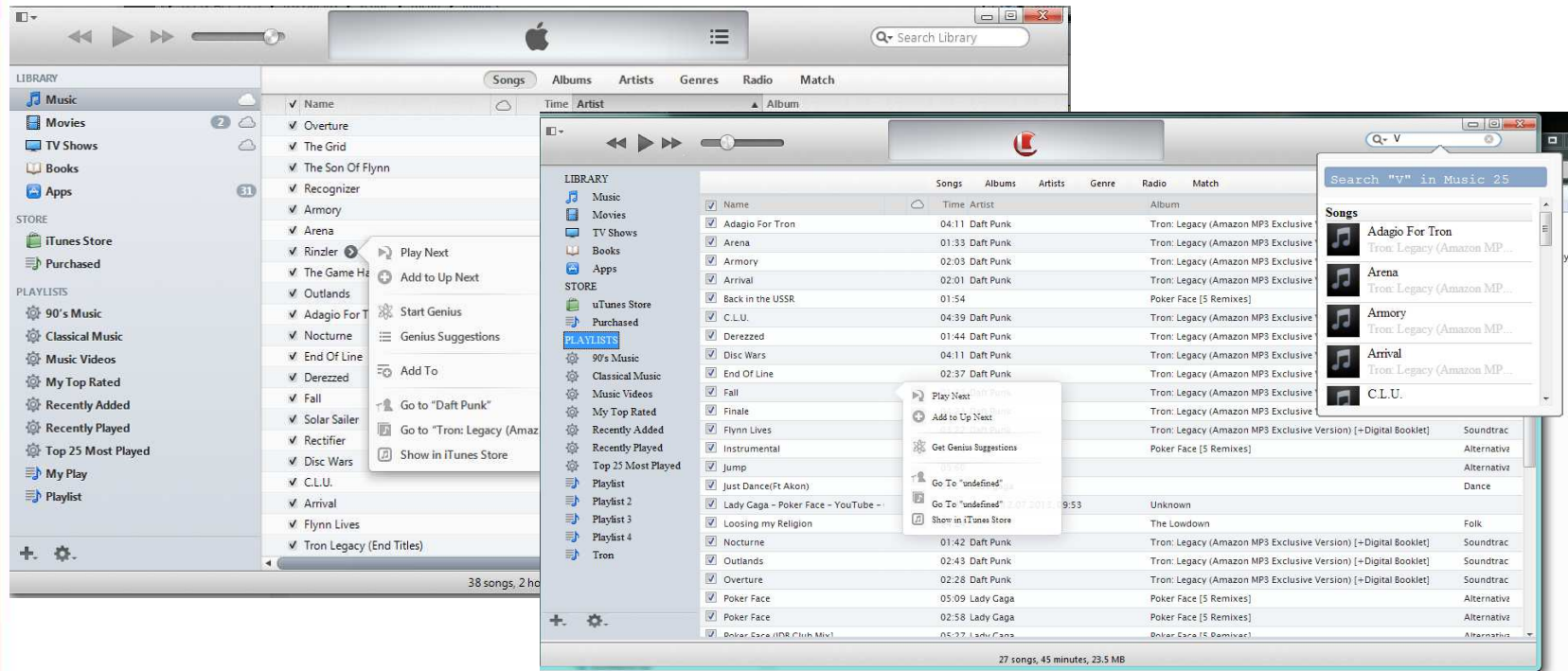




# Putting it all together

9.6 + functionality to deliver visually appealing applications.

Such as ~~iTunes~~  iTunes





# Thanks



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MODERNIZATION

## Welcome to the New

