

Xojo Floating-Objects UI

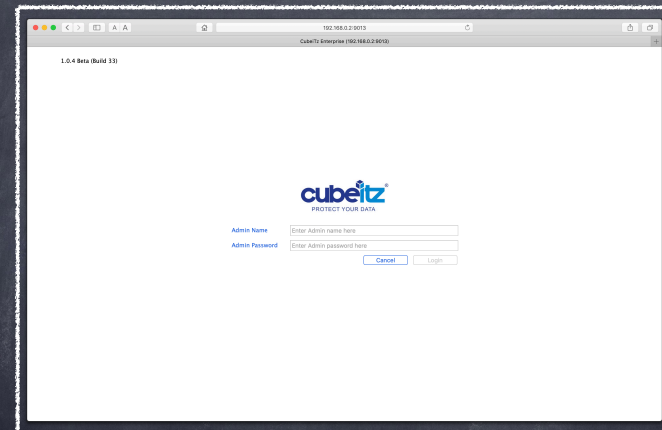
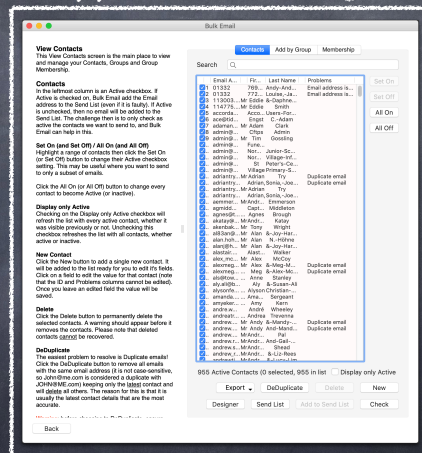
David Cox

My Dilemma

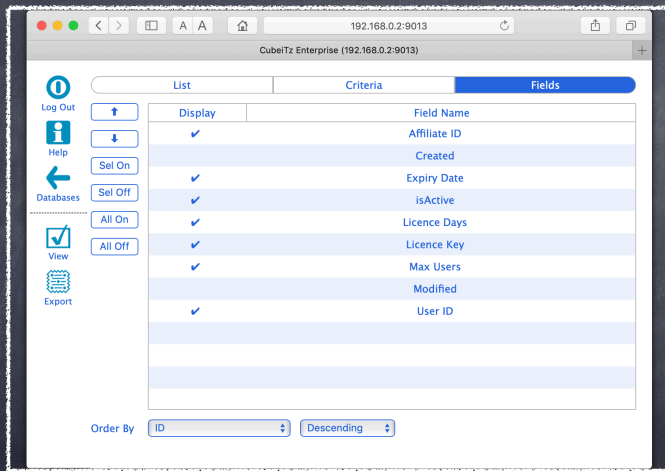
- Searching for the best-UI Design
- Drill-down through a series of objects
- Use an intuitive, zero-training UI
- Handle any number of objects
- Work for both Desktop and Web
- 'Beautiful' to the eye
- Flexible for the user
- How to 'flow' screen objects?

My usual approach is Ugly!

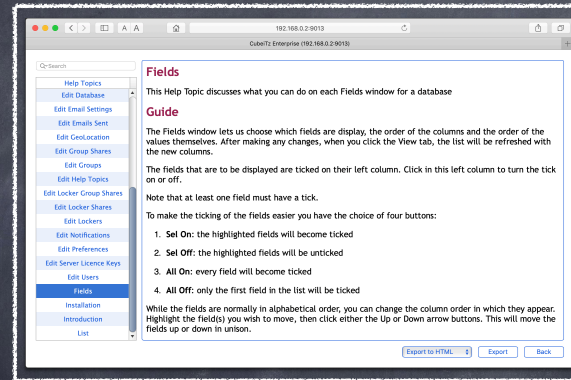
- Try to fit too much on each page
- Lots of tabs, popup menus and buttons
- Cramped ListBoxes
- Help is too large and always visible
- Hard to tell what to click on



Its OK to have lots of white space!

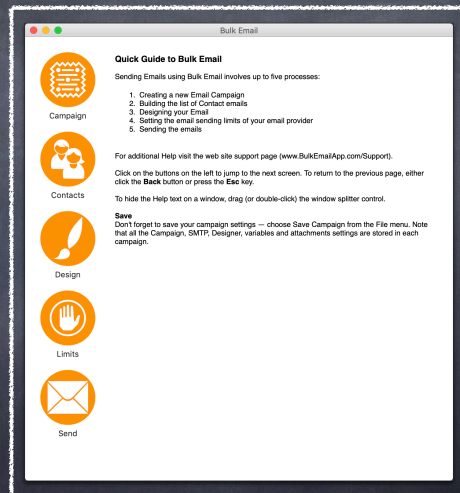


Let the user choose what columns to display, plus record & column order



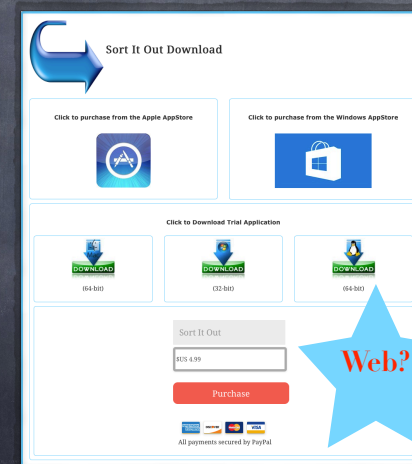
Hide the Help behind a button, with more!

Page Panels are your friend



Any other benefits?

1. Window
2. macOS
3. Linux
4. Rasp Pi
5. MAS
6. Win Store
7. Public Web App
8. Private Web App
9. Personal Web App

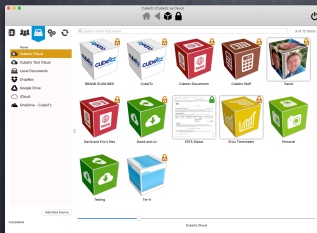


And on the Web...



Demo Cubeitz

How does it work?



- Every cube/file is a Container (array) floating on Canvas
- Top toolbar is Xojo
- Left toolbar is PagePanel
- Einhugur Window Splitter (ultra-clean)
- Proportional, coloured Padlocks (RAG) & text size
- Files encrypted with AES 256 (MBS)
- Files transferred to AWS with CURL (MBS)
- SQL Database (CubeSQL, MySQL or PostgreSQL) with MBS
- Item highlights is a round-border 4 pixels wide
- Cube drawn with Einhugur Aspects 512x512
- Contact icons from Gravatar
- 2FA and PC Authorisation via MBS
- Local folders=OS, Cloud folders=fake

Xojo Object-flow code

```

getGridLocationsWAD(objectNumberArray As Integer, objectWidth As Integer, objectHeight As Integer, availableWidth As Integer, horizontalGap As Integer, verticalGap...)
Dim numAcross As Integer
Dim leftPosition As Integer
Dim topPosition As Integer
Return commonStrings.tab

If objectWidth = 0 or (objectWidth + horizontalGap) = 0 then
end if

numAcross = availableWidth \ (objectWidth + horizontalGap)
leftPosition = (objectNumberInArray Mod numAcross)
leftPosition = leftPosition * (objectWidth + horizontalGap)
leftPosition = leftPosition + leftMargin

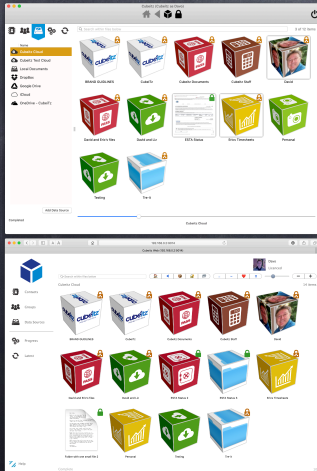
topPosition = Floor(objectNumberInArray / numAcross)
topPosition = topPosition * (objectHeight + verticalGap)
topPosition = topPosition + topMargin

Return commonStrings.getLargeIntegerWAD(leftPosition) + commonStrings.tab + commonStrings.getLargeIntegerWAD(topPosition)
    
```

Small, but effective, Desktop and Web!

Feel free to improve it!

Hybrid Desktop/Web App?



- All large common routines are in external modules
- The application name is a contact in App.
- All interface elements are given the same IDE name
- At the start of each method you DIM every item you need to access (see below)
- Ask questions before you run the Method
- Share graphical objects
- Store only basic user data locally (window sizes, last user logged in, etc)
- Store all other objects in a server database (so user experience is same on all environments)

```
#if app.applicationName = "myDesktopApp" then
Dim myField As TextField = myWindow.myField
#elseif app.applicationName = "myWebApp" then
Dim myField As WebTextField = myWindow.myContainer.myField
#Endif

myField.Text = myField.Text + "do something here"
```

Problems to solve

- How to make a Contact icon round
- Dark mode
- Web Up/Downloading (menu app ie DropBox?)
- iOS/Android UI and feature set (ie URLConnection)
- Drag rectangle selection
- Web Modern UI feel
- Will it scale? # Users, # files and massive # objects (list view/placeholders?!)
- Multi-variable size objects
- Drag and drop - moving files & folders

Questions?