

User Group
Summit
NORTH AMERICA

5 steps to create PowerApps for Any Device

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CRM-Konsulterna, Sweden



Jonas Rapp

```
var jonas = (WhoAmIResponse)service.Execute(new WhoAmIRequest());
```

Microsoft MVP (2017-)

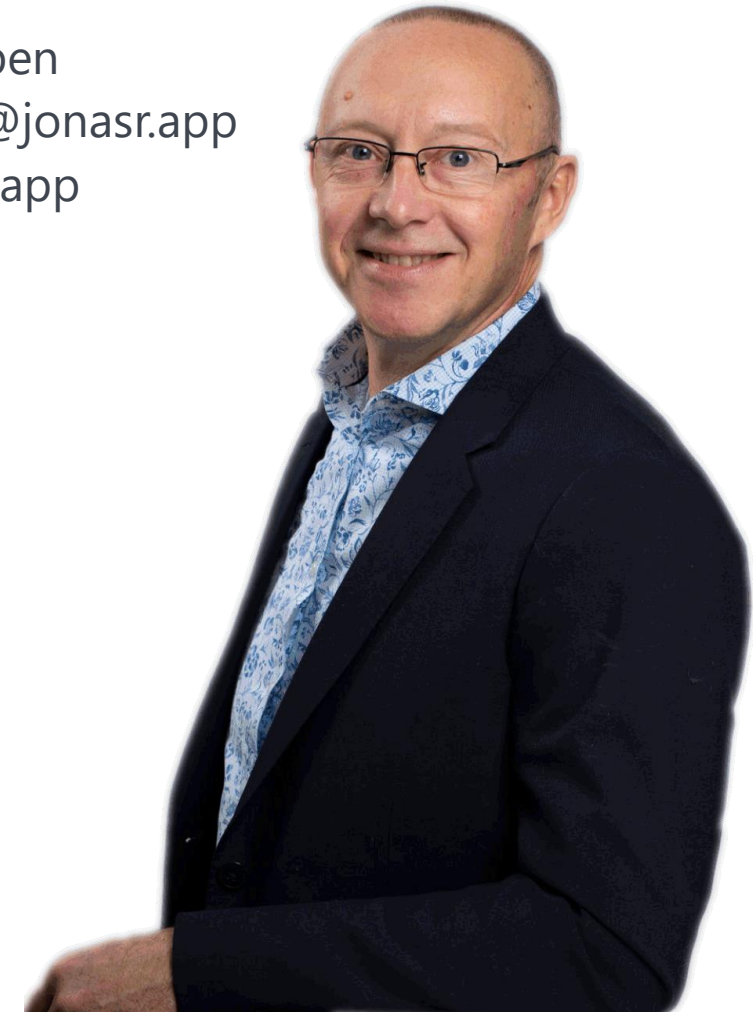
Tech Lead etc. at CRM-Konsulterna, Sweden

Open source tools (2014-)

100% MS Dynamics "CRM" (2009-)

Software Developer (1994-)

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Audience

```
var you = (WhoAreYouResponse)service.Execute(new WhoAreYouRequest());
```

Know what a Canvas App is?

Built a Canvas App?

Using it in production?

~~Cursed~~ Complained over UI limitations?

Classic developer?



Emma Cooper, Microsoft:

this announcement is to say that
creating responsive apps is possible,

unfortunately, not that it is easy

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jonasr.app/responsive

What is Responsive?

It's about real estate

It's about information

It's about usability

5 Steps

- Disable scaling
- Size
- Position
- Spatial awareness
- Geometry



Step 1 – Disable scaling

- Scaling is our enemy
- Use the canvas, don't abuse
- Take control



Step 2 – Size

- Width, Height formulas
- Optimize required space
- Optimize occupied space
- Utilize real estate



Step 3 – Position

- X, Y formulas
- Positioning
- Relative to
 - other controls
 - orientation



Step 4 – Spatial awareness

- Sorry about this, but...
- ...you need to think
- Usability focus
- Resize or show/hide?



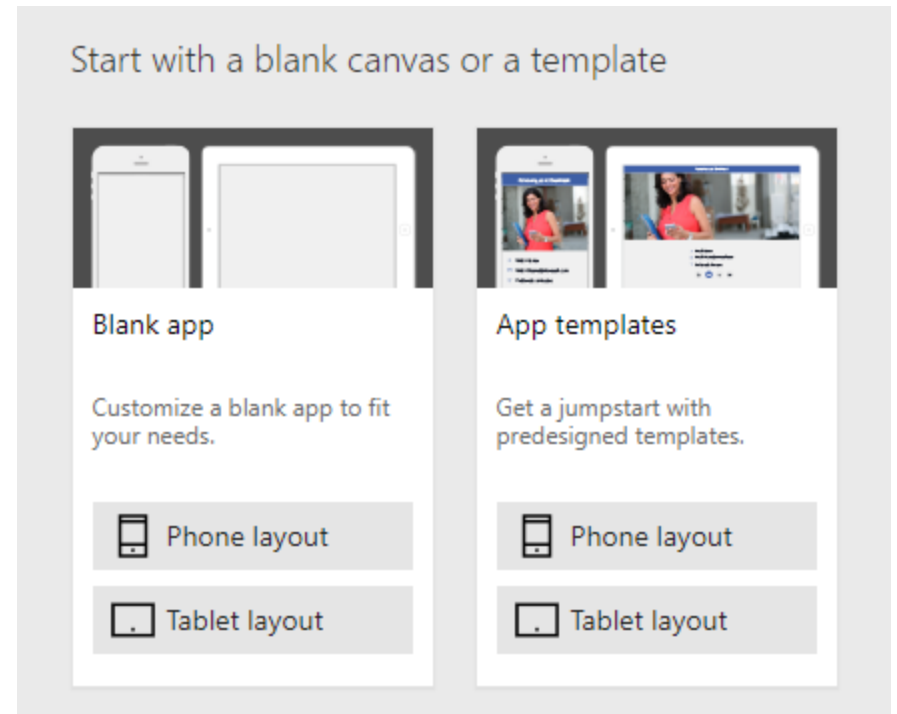
Step 5 - Geometry

- Don't be scared
(it's not university algebra)
- It's simple plus/minus and ratios
- Find your thresholds
- Be smart – use containers



The Default Experience

- New app
 - Select phone or tablet
- Use tablet to get freedom
 - Not available for App From Data
- Scaling always On
- Designer + Preview always scales

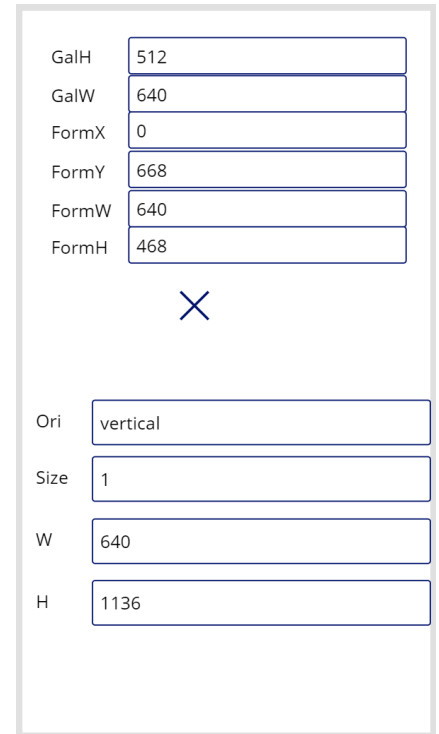
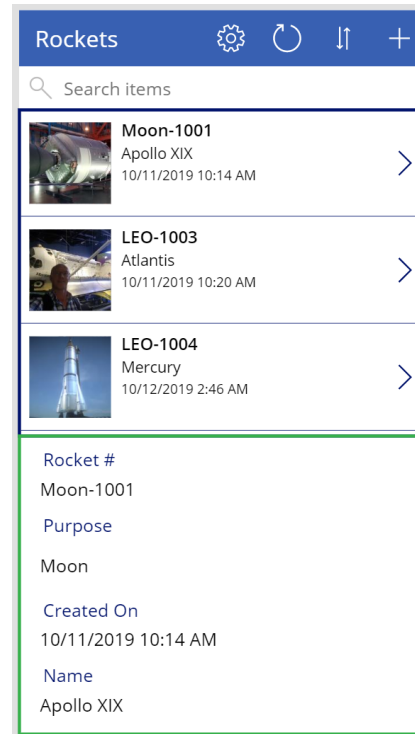


DEMO

Time for some live ~~coding~~ formula writing

Demo notes

1. Create App from Data for Rockets
2. Disable scaling, etc
3. Advanced options, enable containers etc
4. Cut-Paste DetailForm to Browse Screen
5. Remove DetailScreen
6. Add arrow formula
`EditForm(EditForm1);Navigate(EditScreen1)`
7. Add borders to DetailForm1 and BrowseGallery1 during dev
8. Formulas for gallery and form
 1. Gallery Height
`DetailForm1.Y-BrowseGallery1.Y`
 2. Form Y
`Parent.Height-DetailForm1.Height`
9. Add Geo-screen
 1. GalH
`If(BrowseScreen1.Orientation="vertical",DetailForm1.Y-BrowseGallery1.Y,App.Height-BrowseGallery1.Y)`
 2. GalW
`If(BrowseScreen1.Orientation="vertical",App.Width,App.Width/2)`
 3. FormX
`If(BrowseScreen1.Orientation="vertical",0,BrowseGallery1.Width)`
 4. FormY
`If(BrowseScreen1.Orientation="vertical",App.Height-DetailForm1.Height,BrowseGallery1.Y)`
 5. FormW
`App.Width-FormX.Text`
 6. FormH
`If(App.Height<1000,0,468)`
10. Update formulas to reference Geo screen control values
 1. BrowseGallery1.Height = GalH.Text
 2. Etc...



Dos & Don'ts

- Try, reiterate, try again
 - Use Containers
 - Use "variables"
-
- Don't touch! It kills your formulas...

What's coming / Wish list

- Anchors
- Tables / Grids
- Docking
- Overflow
- Thresholds
- Designer awareness
- Preview awareness



**Thank you for
attending!**



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the survey!**

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