



SEPTEMBER 18–20, 2024 • Workshops: Sept 16, 17 & 21

MGM GRAND • Las Vegas, NV



GETTING STARTED WITH PCF CONTROLS

Ahmad Pirani

Carl de Souza

AHMAD PIRANI

- 15+ years Dynamics experience
- First time speaker
- HSO booth 228
- Parent of a teenager







Principal Solution Architect

CARL DE SOUZA

- 20+ years Dynamics experience
- 3 x Microsoft MVP (2021 2024)
- Worked in the Partner channel
- Parent of a toddler



youtube.com/@carldesouza







FastTrack Solution Architect

HAVE YOU BUILT A PCF CONTROL BEFORE?

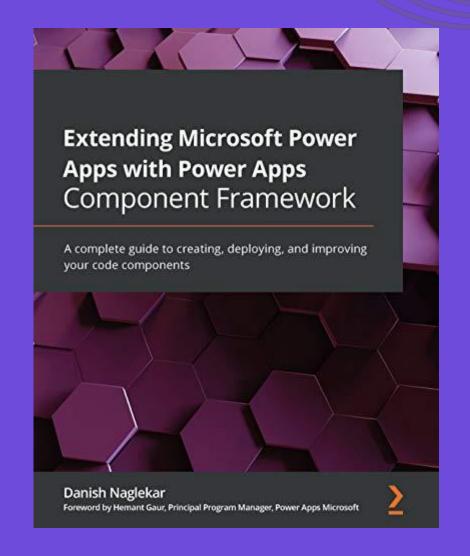
SCAN CODE TO VOTE

GIVEAWAY!

We're giving away

1 free SIGNED copy of

Danish's book at the end.



WHAT WE WILL COVER TODAY





LET'S LOOK AT SOME PCF CONTROLS

REAL-WORLD EXAMPLES

- Model-driven apps
- Canvas Apps and Custom Pages
- Power Pages

PCF GALLERY MOST ACCESSED CONTROLS (RECENTLY)



Thanks to Guido Preite

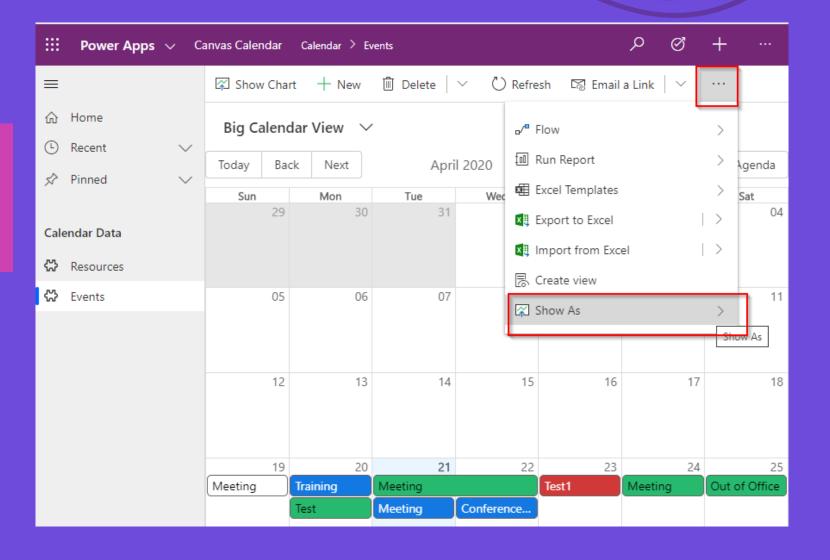
https://pcf.gallery

- Multi-select Lookup
- Multi-select Records
- Calendar
- N to N Multi-select
- AG Grid (Canvas)
- Colorful Optionset / Colorful Optionset
 Grid
- IFrame / Responsive IFrame
- Easy Reports
- Power Drag and Drop
- Smart Grid
- PolyLookup

CALENDAR CONTROL

Author: Richard Wilson

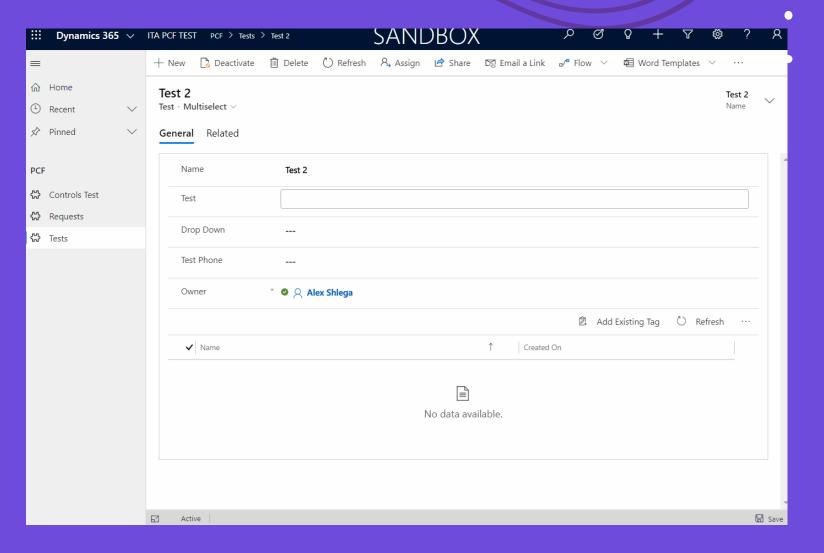
PCF.GALLERY MOST VIEWED CONTROLS



N TO N MULTISELECT

Author: Alex Shlega

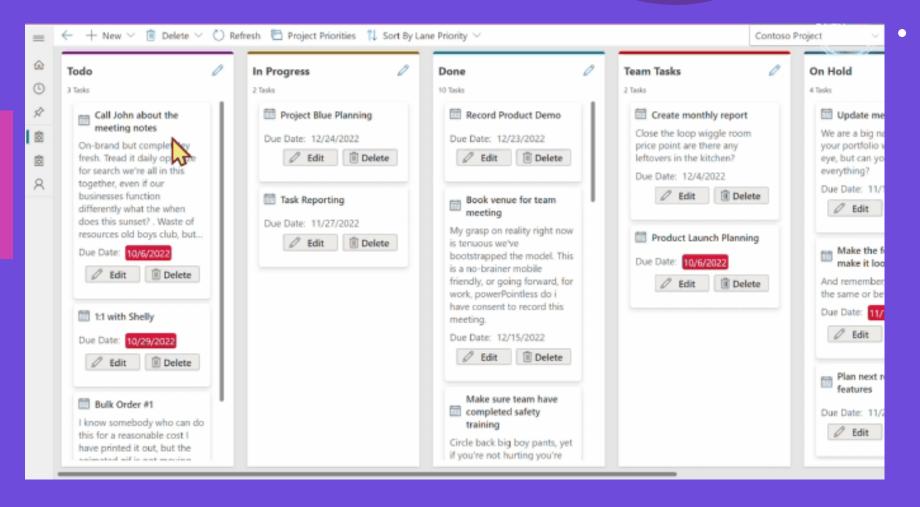
PCF.GALLERY MOST VIEWED CONTROLS



POWER DRAG DROP

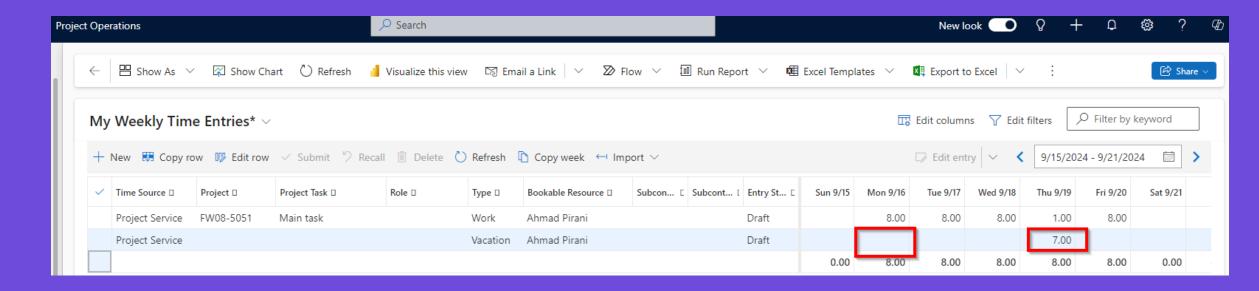
Author: Scott Durow

PCF.GALLERY MOST VIEWED CONTROLS



PROJECT OPERATIONS LITE

Time Entry Grid



WHAT AND WHY



Customization and flexible



Reusable



Change behavior of a control



Performance



Enhance user experience



WHEN TO USE THEM



STANDARD CONTROLS DON'T MEET THE NEED



NEED TO
CREATE
CUSTOM
USER
EXPERIENCE



IMPROVE DATA INPUT AND ACCURACY

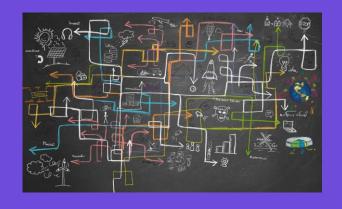


INTEGRATE THIRD
PARTY
COMPONENTS

WHEN NOT TO USE THEM (IT DEPENDS)



EXCESSIVE COMPLEXITY





LIMITED
DEVELOPMENT
EXPERTISE





INSTEAD: CUSTOM PAGES CANVAS APPS

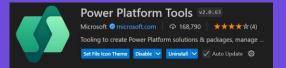


WHAT TO INSTALL

- Node LTS Version https://nodejs.org/
- 2. VS Code https://code.visualstudio.com/dow nload
- 3. Microsoft Power Platform CLI
- https://aka.ms/PowerAppsCLI (MSI)
- dotnet tool install --global Microsoft.PowerApps.CLI.Tool
- VS Code Extension
- 4. Then run:
 - pac install latest



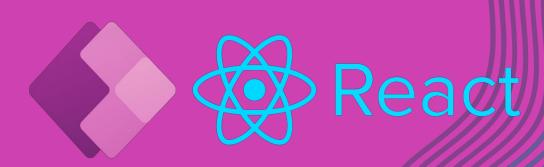




STANDARD (NONE)	VIRTUAL (REACT) CONTROLS
You don't know React (maybe you should learn)	You know React
Outputs HTML Div	Outputs ReactElement
Bring your own libraries	Use React and Fluent platform libraries + Bring your own other libraries
Maybe larger file size	Lightweight
Not as fast depending on what you're doing	Better performance / rendering
If using Fluent, use Virtual	Fluent UI platform look and feel (v8 templates with Fluent 2 / v9 support)
	Note the version restrictions (React and Fluent)

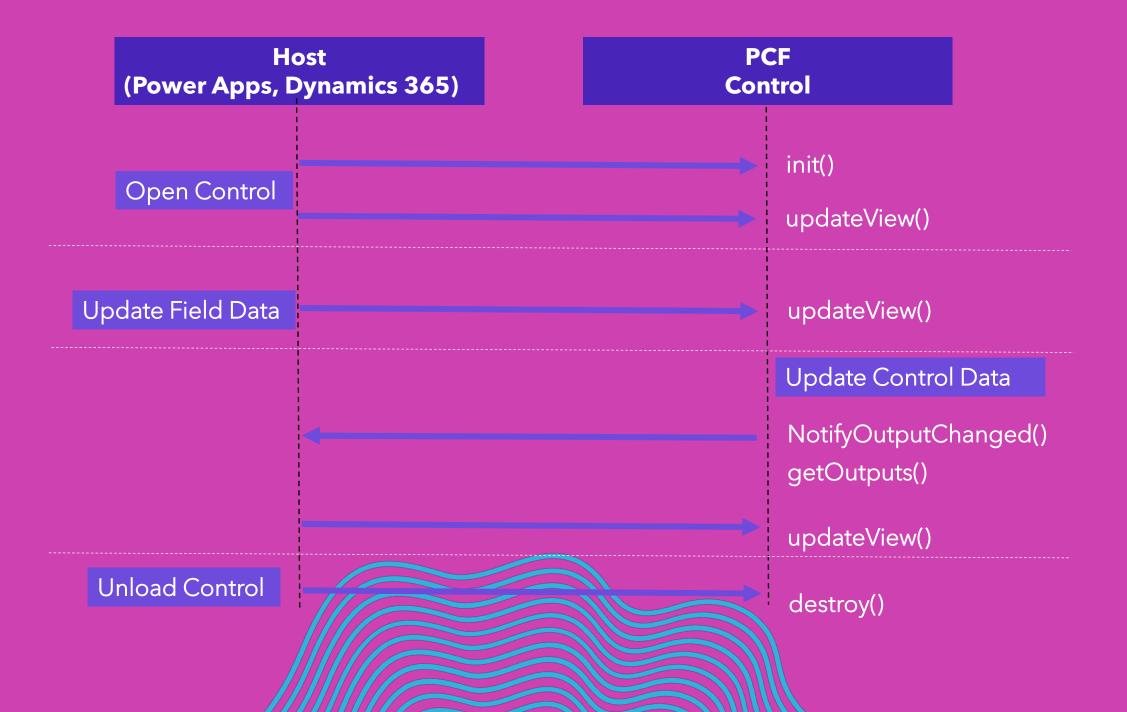
WHICH FRAMEWORK?

STANDARD OR REACT





- 1. Build a standard control, basic Dice
- 2. Look at a React Dice control



Resources:

- Microsoft Learn
- Carl's Video on YouTube (2.5 hours)
- Scan the Linktree QR Code

Build your 1st control!

- 1. Download and install VS Code, pac cli, Node.js
- 2. Run this command:
 - 1. pac pcf init -n PCFName -ns PCFNamespace -fw standard -t field -np
- 3. Create your first control
- 4. Deploy your control
- 5. Be known as a PCF Genius!

NEXT STEPS AND RESOURCES



Scan for more resources https://linktr.ee/ppcc24

THANK YOU! AND GIVEAWAY @