**Power Apps Component Framework (PCF)**

## To allow PCF code controls in Power Apps, perform these 2 actions:

Ref: <https://d365demystified.com/2021/04/13/enable-custom-code-components-pcf-controls-to-be-imported-in-a-canvas-power-app-quick-tip/>

1. Enable setting on **Environement** level:

Admin Center >> Select Environement >> Settings >> Product >> Features >> "Power Apps component framework for canvas apps"

1. Enable setting on **Power App** level:

Select Power App >> Edit App >> Settings >> Upcoming features >> Preview >> Components

## Steps to create PCF component:

Ref: <https://docs.microsoft.com/en-us/powerapps/developer/component-framework/implementing-controls-using-typescript>

**Prerequisites:**

* VS Code
* Node.js
* [Microsoft Power Platform CLI](https://docs.microsoft.com/en-us/powerapps/developer/data-platform/powerapps-cli#install-power-apps-cli) (Use either the Visual Studio Code extension or the MSI installer)
  + [Visual Studio 2019 for Windows & Mac](https://visualstudio.microsoft.com/downloads/). Select at minimum the workload .NET build tools.
  + [Build Tools for Visual Studio 2019](https://visualstudio.microsoft.com/downloads/#build-tools-for-visual-studio-2019). Select at minimum the workload .NET build tools.

**Steps**

1. Open VS Code
2. Open new terminal
3. Run commands:
   1. mkdir LinearInput
   2. cd LinearInput
   3. pac pcf init --namespace SampleNamespace --name LinearInputControl --template field

(Update code changes as per instructions in MS reference article)

* 1. npm run build
  2. npm start watch
  3. mkdir MyPCFSolutions
  4. cd MyPCFSolutions
  5. pac solution init --publisher-name MyPCFSamples --publisher-prefix pcfctrls
  6. pac solution add-reference --path ..\

(Open Visual Studio – Continue without code >> Tools >> Command Line >> Developer PowerShell)

* 1. navigate to MyPCFSolutions folder in Visual Studio – Developer PowerShell
  2. msbuild /t:restore
  3. msbuild

1. Upload solution zip file (from debug folder) to Power Platform environment
2. Use code component in Power App (Click on “+” icon >> Get more components >> Code tab >> Select “LinearInputControl” >> Import >> Add to app >> Publish app and test)

## Adding code components in model-driven apps

To add a code component like a linear input component, follow the steps mentioned in the article [Add components to columns and tables](https://docs.microsoft.com/en-us/powerapps/developer/component-framework/add-custom-controls-to-a-field-or-entity).

## Adding code components to a canvas app

To add the code components to a canvas app, follow the steps in the article [Add code components to a canvas app](https://docs.microsoft.com/en-us/powerapps/developer/component-framework/component-framework-for-canvas-apps#add-components-to-a-canvas-app).

## Adding code components to a portal

To add the code component to a portal, follow the steps in the article [Use code components in portals](https://docs.microsoft.com/en-us/powerapps/maker/portals/component-framework-tutorial).