

Microsoft 365 & Power Platform Development – Bi-weekly call

December 8th, 2022

Your host in this call:
David Warner (Microsoft)



Agenda

- Latest Updates on community
- PnP .NET libraries
- PnP PowerShell
- Latest on yo Teams
- Latest on the Microsoft Teams Toolkit
- Latest on Microsoft Graph Toolkit
- Independent Publisher Connectors

- Latest on script samples
- Latest Microsoft Teams samples
- Latest on Power Platform samples

- Picture time with the **Together Mode!**

- **Giuliano De Luca** - How to create or migrate SharePoint pages with Microsoft Graph API and Power Automate

- **Chris Kent** (DMI) - List Formatting Magic



Opportunities to Participate in the community

Demo solution
or technical
pattern

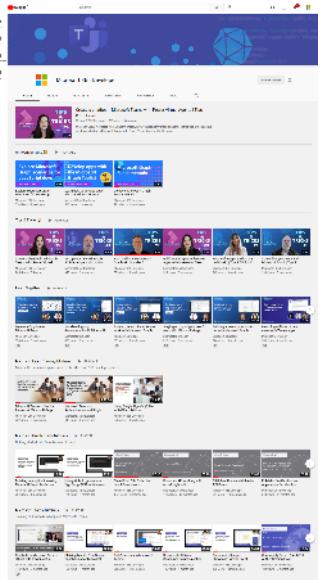
Contribute on
GitHub

Provide
feedback

Great opportunity to get visibility for you or your company. Demo sample or explain how you extend or customize SharePoint Online with live demo in your projects. Reach out to team for volunteering.

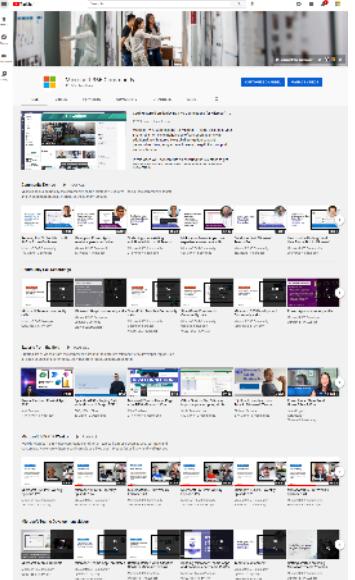
Request a demo spot on the call
<https://aka.ms/m365pnp/request/demo>

Microsoft 365 developer videos



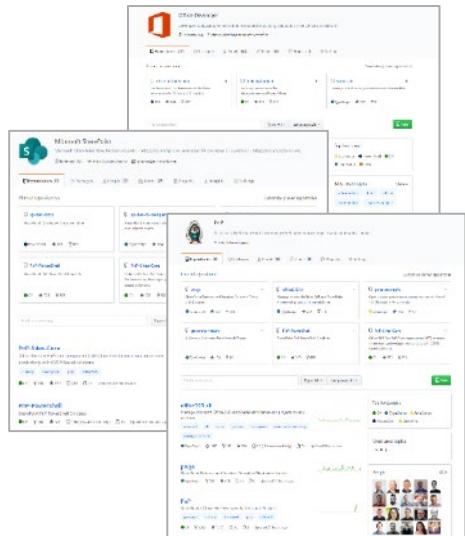
aka.ms/m365devyoutube

Microsoft 365 community videos



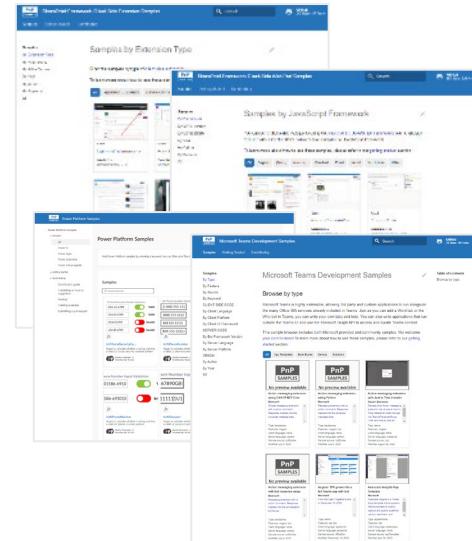
aka.ms/m365pnp/videos

Open-source



github.com/sharepoint
github.com/pnp
github.com/OfficeDev
github.com/microsoftgraph

Sample galleries



aka.ms/m365/samples
aka.ms/teams-samples
aka.ms/spfx-webparts
aka.ms/powerplatform-samples
aka.ms/spfx-extensions
aka.ms/list-formatting

Open-source initiatives and samples



aka.ms/m365/community

Microsoft 365 developer community calls

Microsoft 365 platform (weekly) <https://aka.ms/m365-dev-call>

Microsoft identity platform

<https://aka.ms/IDDevCommunityCalendar>

Office Add-ins

<https://aka.ms/officeaddinscommunitycall>

Power Platform

<https://aka.ms/PowerPlatformMonthlyCall>

Microsoft 365 & Power Platform Development (bi-weekly)

<https://aka.ms/m365-dev-sig>

Viva Connections & SharePoint Framework (bi-weekly)

<https://aka.ms/spdev-spfx-call>

Download recurrent invites from

<https://aka.ms/m365/calls>

Microsoft 365 platform call

13th of December @8 AM PT

<https://aka.ms/m365-dev-call>

- Latest news from Microsoft engineering on the [Microsoft 365](#) topics
- Community together mode group photo
- **Patrick Rodgers** – Using dynamic SVG images with Viva ACEs for business charts
- **Sreekanth Thirthala Venkata & Yan Jin**
 - Introduction to Microsoft 365 App Compliance Automation tool
- **Sébastien Levert** - Introduction to Microsoft Graph Developer Proxy



GUIDANCE

Learn how to get started in the open-source PnP community!

Upcoming Sessions:

- First-time contributor
- Power Platform Samples Contributor
- Writing for the Web
- Community Content Docs
- SPFx Developer Workstation Setup
- Using PnP SPFx samples w/ NVM
- More than code with VS Code
- First-time presenter
- M365 Maturity Model Practitioners

New Dates
Scheduled for
January 2023



<https://aka.ms/sharing-is-caring>



Community Recognition Program

- Showcasing your contributions
- Powered by Credly
- More achievement levels coming soon



<https://aka.ms/m365/recognition>



Project specific updates

Updates and progress on the different open-source tooling lead by Microsoft and community members.

You are welcome to join the projects – your feedback matters! 🚀 ❤️



PnP .NET libraries

Working on it

Roadmap

PnP Framework

- >921,000 downloads!
- Released version 1.11.0
- Support for .NET 7, C# 10
- Documentation site ([PnP Framework documentation](#) | [PnP Framework](#)) started by Paul Bullock 🎉🔗🚀
- New PnP Provisioning Schema v. 202209 is now released:
 - Feedback welcome on GitHub repo (<https://github.com/pnp/PnP-Provisioning-Schema>)
 - Thank you Paolo Pialorsi and Paul Bullock 🎉🔗🚀

<https://github.com/pnp/pnpprovisioningschema/blob/dev/src/sdk/CHANGELOG.md>

PnP Core SDK

- >1,165,000 downloads!
- Released version 1.8.0
- Support for .NET 7, C# 10
- Support for Access Request settings : Patrick Lamber 🎉🔗🚀
- PR to allow using a certificate instance in our OnBehalfOfAuthenticationProvider : Martin Loitzl 🎉🔗🚀

What key scenarios
are still missing?

nuget.org/profiles/pnp
aka.ms/pnp/framework

nuget.org/profiles/pnp
aka.ms/pnp/coresdk

PnP Core SDK Using the SDK API Documentation Contributing Samples

Using the SDK / SDK basics / Getting started

Enter here to filter...

- SDK basics
Getting started
Get data
Get data using paging
Adding, updating and deleting data
Advanced PnPContext use
Batching requests
Asyn or not
Custom API requests
PnP Framework interop
Microsoft Graph SDK interop
Debugging
General configuration
API configuration
Upgrade from beta2

+ Authentication
+ Sites
+ Webs
+ Lists
+ Fields
+ Content types
+ List Items

Where is the code?
The PnP Core SDK is maintained in the PnP GitHub repository: <https://github.com/pnp/pnpprovisioningschema>

- The code of the PnP Core SDK in the `src\ sdk` folder
- Examples of how to use the PnP Core SDK in the `src\samples` folder
- The source of the documentation you are reading right now

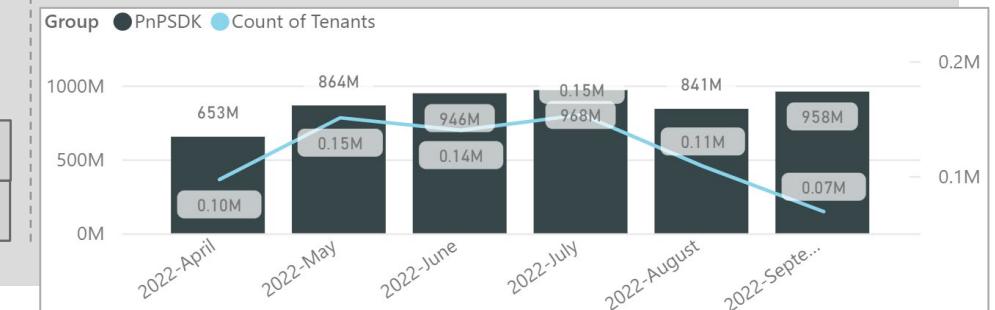
Referencing the PnP Core SDK

The recommended way to reference the PnP Core SDK is to add the following NuGet package to your project:

NOTE

- If you are using the PnP Framework, make sure to add the `PnP Core` package to your project.

>130.000 Tenants in a month!



Where is the code?
Referencing the PnP Core SDK in your project
Configuring the needed services
Obtaining a PnPContext
Using the PnPContext for operations on Microsoft 365



PnP PowerShell

Working on it

Cross Platform PnP PowerShell

V1.12.0 is out !!!

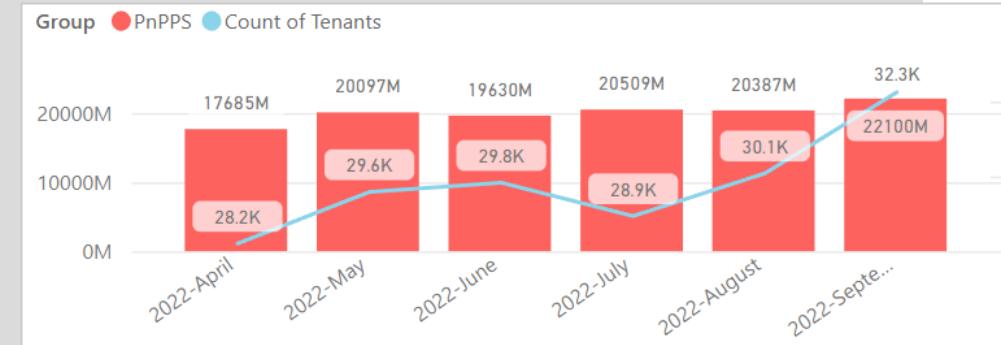
Many updates, improvements and fixes!

- **4.1 million downloads!**
- **140 million cmdlets executed per day!!**
- Docs shifted, no more **docs.microsoft.com**
- Documentation, Articles and tips available at :
<https://pnp.github.io/powershell>
- Thinking of dropping support for PS 5, any strong objections ???
- PnP PS runs in **PS 5, PS 7, Azure CloudShell, Azure Functions, Azure Runbooks & Raspberry Pi**

▪ New Stuff

- Bug fixes and improvements continue in nightly builds
- **.NET 6.0 support** is now available. Requires PS 7.2.x or later
- This unfortunately **doesn't work in Azure functions with PS 7.2** due to a product bug, works everywhere else like Windows, Mac, Linux, Azure Runbooks etc.
- **.NET Core 3.1 support** is removed, it won't work on **PS 7.0.x and 7.1.x**
- Improved **Viva Dashboard** related cmdlets, like **Set|Get|Remove-PnPVivaConnectionsDashboardACE**
- Would love to hear from you. Discussion/feedback/issues - head to **Github** ?

>32.000
tenants in
a month!



<https://github.com/anoopt/PnP.PowerShell.Predictor>



github.com/pnp/powershell



www.powershellgallery.com
PnP.PowerShell

<https://github.com/pnp/powershell/blob/dev/CHANGELOG.md>



yo teams

<https://aka.ms/yoteams>

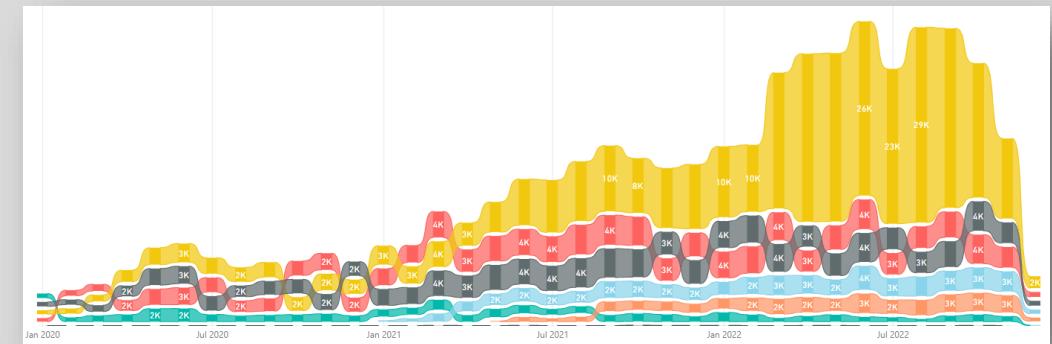
47K

Totals Downloads

What's new 🎉

- yoteams-build-core v1.8.0 is out
 - Fix typing mistakes by **Robert Pocklington**
 - Update codeql-analysis.yml by **Rick Van Rousselt**
- Branch updates
 - We switched from **master** to **main**
 - Branch cleanups were done

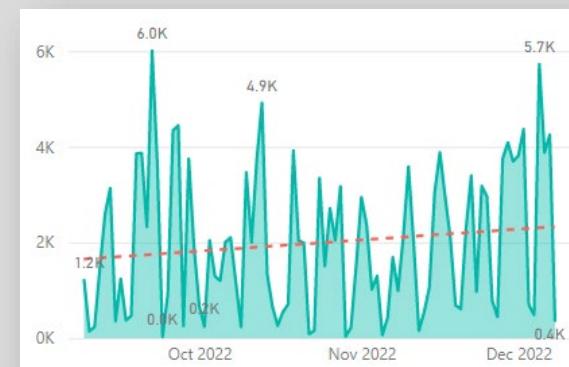
Package Downloads



What's next? 💻

- Docs, Docs, Docs
- VS Code extension for yo teams (We would love your feedback) → **We're already working on that 😊**
- Support for SSO, MGT, meeting apps and many more
- Idea to produce videos for yo teams (tutorial-like)

Daily build events



We need your help ❤️

- 🛠 Help us fix bugs
- 💡 Help us build/improve features
- Watch out for "help wanted" & "good first issue" issues → <https://aka.ms/yoteams>



Microsoft Teams Toolkit

What's new 🎉

- Latest version currently is 4.1.3 in VS Code – released 17th of November
 - Bump up version of @microsoft/teamsfx used in templates and samples to 2.0.0 that depends on @microsoft/teams-js version 2.0.0 and above. Starting from this version, it enables Teams app to run in Outlook and Office.
 - A/B testing on in-product documentation to display tutorial articles inside Visual Studio Code.
- Teams Toolkit for VS updated in version 17.4 - released 8th of November
 - Create a Tab with/without SSO, add it later with Add Authentication Code menu
 - Add SSO for bot project types

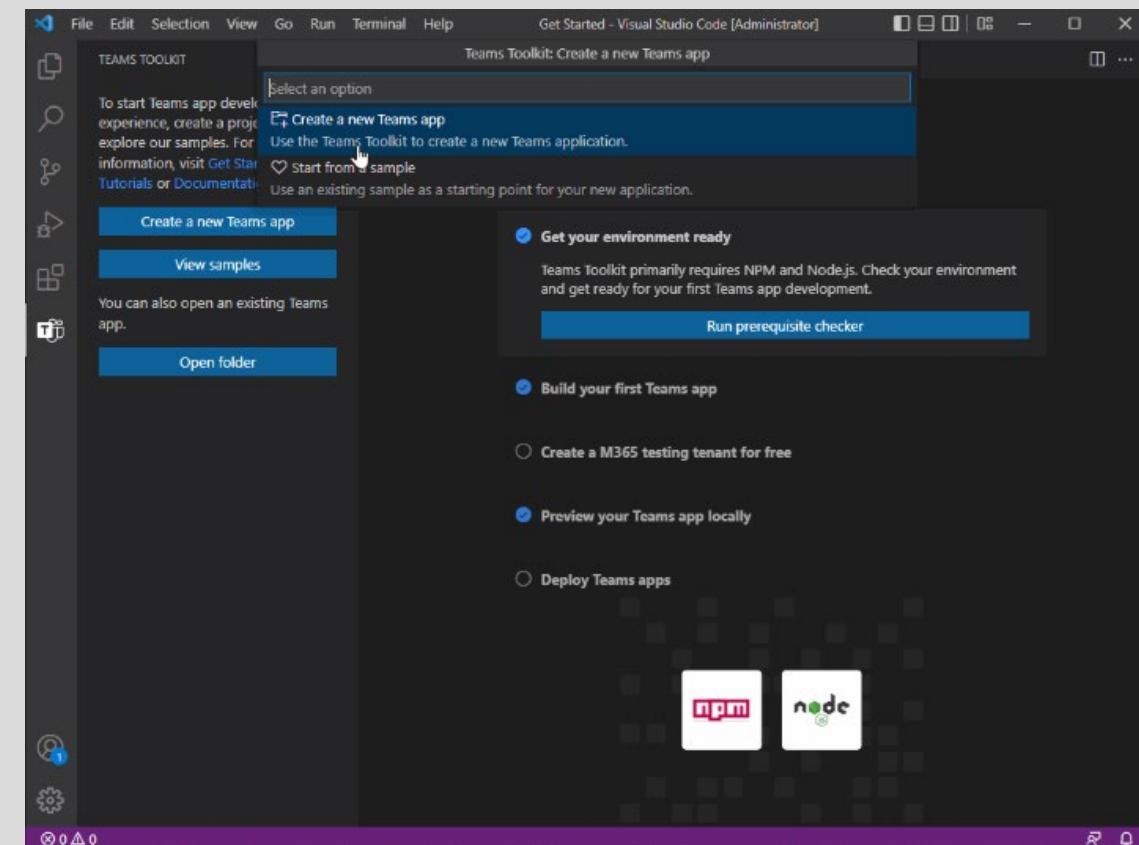
What's next? 📈

- We're making the orchestration and app model configurable so that each step of the app life-cycle is configurable.
 - Use a different tunneling tool; use scripts to Provision and Deploy; etc.

We need your help

🐞 Share issue and bug findings at
<https://github.com/OfficeDev/TeamsFx/issues>

- Provide us feedback to further improve the tooling – tell us what you need!





Microsoft Graph Toolkit

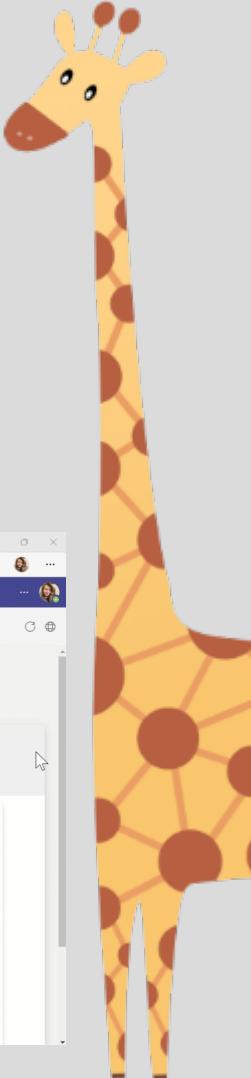
More information: aka.ms/mgt

What's new 🎉

- Just shipped! V2.8.0 is our latest release! Update your packages! <https://aka.ms/mgt/2.8.0>
 - Thanks @devdavest, @aslynblohm, @NatZ21 and @SLdragon for your contributions 🎉
- The MGT samples repository is live! Keep your contributions coming! <https://aka.ms/mgt/samples>

The collage of screenshots illustrates various Microsoft Graph Toolkit components in action:

- Teams channel messages using mgt-get:** Shows a card with a profile picture, name, and a message.
- Linear events template using mgt-agenda:** Displays a list of events with times and locations.
- Multiple Person display in tooltip:** Shows a tooltip with two user profiles and their names.
- Emails template using mgt-get:** Shows an email message with a recipient's profile picture and name.
- Contact card:** Shows a contact card for "Diana Smith" with a photo, name, title, and department.
- OneProductivityHub-local-debug:** A Microsoft Teams window showing a productivity hub with sections for Calendar events, To-do tasks, and Files.



What's next? 💻

- Aligning all Toolkit components to Fluent UI Web Components
- More generic components and theming capabilities
- Install our v3.0 preview!
 - `npm i @microsoft/mgt@next.fluentui`

We need your help ❤️

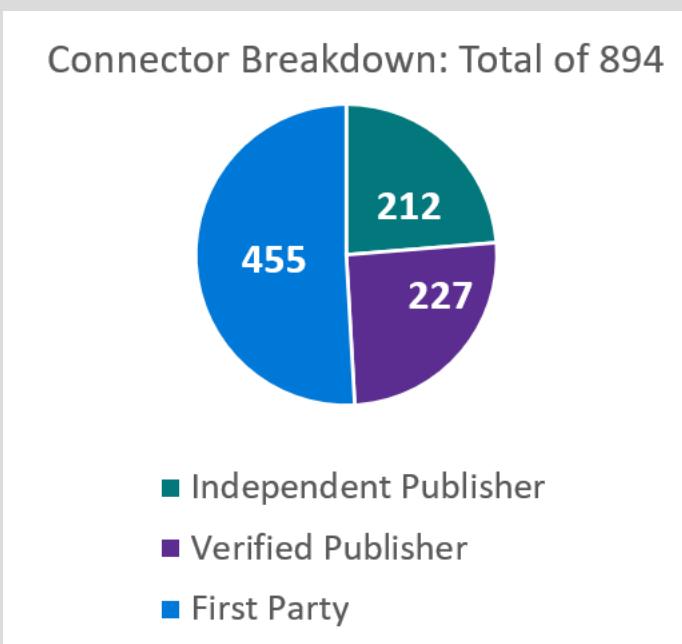
- Help us fix bugs
- Help us build/improve features
- help-wanted & good-first-issue -> <https://aka.ms/mgt/issues>



Independent Publisher Connectors

What's new ?

- **70 Amazing Independent Publishers!**
- **212 Independent Publisher connectors! + 10**
 - Troy Taylor: GitHub Gists, Tumblr, and Today in History
 - Julia Muiruri: Google Photos
 - Artesian Software: QuickBooks Time and eBay
 - Ashwani Kumar: Google BigQuery
 - Sean Kelly: Microsoft Learn Catalog
 - Rene Koch: Snowflake



We need your help

Become an Independent Publisher by building one of these connectors: [Top Connector Asks · microsoft/PowerPlatformConnectors Wiki \(github.com\)](#)

OR

By adding more functionality to one of the existing Independent Publisher connectors on the Power Platform



Do you have a cool flow? I want to write about it!
#FlowOfTheWeek is coming back!
[Aka.ms/FlowOfTheWeekForm](https://aka.ms/FlowOfTheWeekForm)



SCRIPT SAMPLES

Site now has 192 scenarios and 280 scripts, using Microsoft Graph, CLI for Microsoft 365, PnP PowerShell, SPO Management Shell tooling and more... 😊 AND samples integrated into *Microsoft Sample Solution Gallery*

Awesome 🎅😊🎉👏 Samples Include :

New Scenarios using PnP PowerShell

- Remove modern web parts from pages by **Ramin Ahmadi**
- Create a multi-hub set of communication sites by **Paul Bullock**

Updated Scenarios using PnP PowerShell

- Activate a site feature in SharePoint online by **Dan Toft**



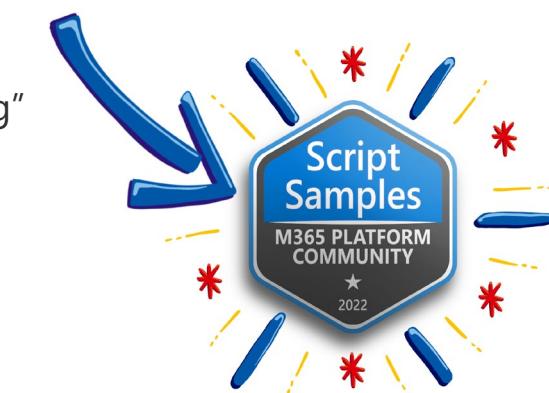
<https://marketplace.visualstudio.com/publishers/adamwojcikit>

Extensions include **SCRIPT SAMPLES!** 🎉👏

Want to contribute:

- We have contribution guidance to get going using the "contributing" link on the site navigation or reach out to **Paul Bullock** on Twitter (@pkbullock), open to DMs, if you need help to get going.

Thank you for your samples and contributions – your awesome!



One centralized location for all scripts
for helping your day-to-day life.
Contribution's welcome!

The screenshot shows the 'Script Samples' page with a navigation bar for 'PnP SAMPLES', 'Scripts', 'By Tool', 'By Product', and 'Contributing'. A search bar is present. Below, there are several cards for different scenarios:

- SharePoint Modern Page Publishing Report**: Scan through modern pages within a site and reports out the publishing status of the pages.
- Get Flows Connected to SharePoint**: This script Gets all the flows connected to a SharePoint site.
- Add bulk users to SharePoint**: Add bulk users to SharePoint.
- Add bulk users to SharePoint Online**: Add bulk users to SharePoint Online.
- Chandani Prajapati**: Modified Jul 05 2022.
- #COMMUNITY ROCKS**: PowerShell cmdlet to add multiple folders in a SharePoint site.

aka.ms/script-samples



Microsoft Teams Samples

Teams App Sample of the Week

« Useful and inclusive »

Meeting tab that records names so everyone can pronounce them properly
Markus Moeller | @moeller2_0
<https://aka.ms/tab-meeting-record-name>

Please share your Teams app samples!
<https://github.com/pnp/teams-dev-samples>



Also, check out all the samples at
<https://aka.ms/m365/samples>

Leave

Pronounce name

User name recordings

Markus Möller	
Hans Hansen	
Jens Jensen	



Power Platform Samples

aka.ms/powerplatform-samples

- Power Apps templates
- Power Apps components
- Power Apps connectors
- Power Fx Custom Functions

- Power Automate flow templates
- PowerBI
- Power Virtual Agents

Power Platform Contributors Sharing is Caring Session January 10th

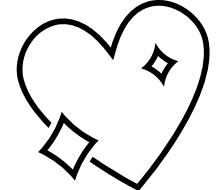
The collage includes the following samples:

- TwoPoints**: Calculate distance in unit of meter or compass heading.
- AddTopValue Examples**: Examples for adding top values to lists.
- Custom Font Samples**: A grid of font samples.
- timer**: A stopwatch application using Fluent UI icons.
- Expandable Navigation**: An example of expandable navigation using Fluent UI icons.
- Tag Box**: A dynamic list containing shapes (Square, Circle, Rectangle, Triangle).
- Status Indicator**: Shows how to add a status indicator in a display form.
- chkContrast**: Calculates the contrast between two colors.
- getLuminance**: Calculates the relative luminance of linearized RGB colors.
- HexToDecimal**: Converts hex to decimal.
- ConvertUnit**: Performs unit conversion for length.
- IsInCurrentDay**: Checks if a date occurs within the current day.
- IsLeapYear**: Checks if a date belongs to a leap year.
- JS Phone Number Validation**: Regex validation for US phone numbers.
- IsURL**: Regex validation for URLs.
- Input Validation**: Validation rules for input fields.
- Power Fx Date Functions Library**: A library of Power Fx date functions.

Optional picture time!

Video on and we'll grab
a Together Mode pic
with those who are
willing to do this.

We are together on this
as a community!



By enabling your camera for the picture, you'll give us the permission to share your picture in social media.

A photograph of a man and a woman looking at a laptop screen. The man is on the left, wearing a grey sweater, and the woman is on the right, wearing a dark blue patterned top. They are both looking down at the laptop. A white coffee cup with a cartoon character on it sits on the desk in front of them.

DEMO

- **How to create or migrate SharePoint pages with Microsoft Graph API and Power Automate**
– Giuliano De Luca
- **List Formatting Magic**
– Chris Kent (DMI)

Thank you

Recording will be available in 24 hours on
Microsoft 365 Community (PnP) YouTube channel

<https://aka.ms/m365/videos>

(subscribe today)

Follow us on Twitter
[@Microsoft365Dev](https://twitter.com/Microsoft365Dev) | [@M365PnP](https://twitter.com/M365PnP)

Next M365 General Dev call: **December 22nd at 07:00am PT**

Next Viva Connections & SharePoint Framework call: **December 15th at 07:00am PT**

See all other community calls from <https://aka.ms/m365/calls>



Thank you