Microsoft

# Microsoft 365 & Power Platform Development – Bi-weekly call

June 9th, 2022

# Agenda

- Latest on PnP Framework and Core SDK extension
- Latest on PnP PowerShell
- Latest on yo Teams
- 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!

- **Nanddeep Nachan & Smita Nachan** - Independent Publishing Connectors Sessionize Demo

- **André Lage** - List Formatting - Payment Registration

- **Paolo Pialorsi** - Understanding Sites.Selected permissions in SharePoint Online

# 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.
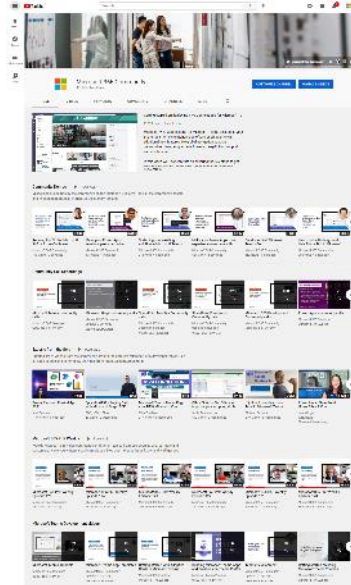
Request a demo spot on the call
https://aka.ms/m365pnp/request/demo
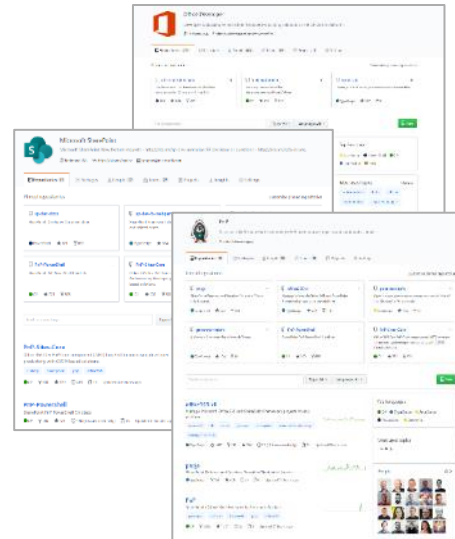
# Microsoft 365 developer videos
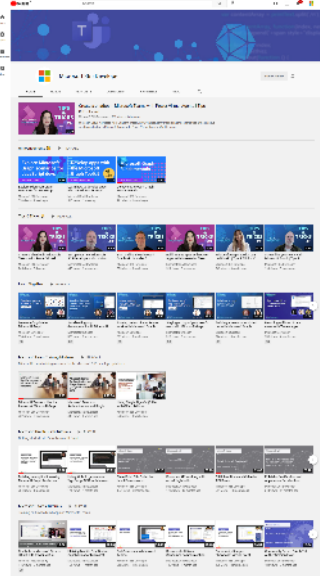


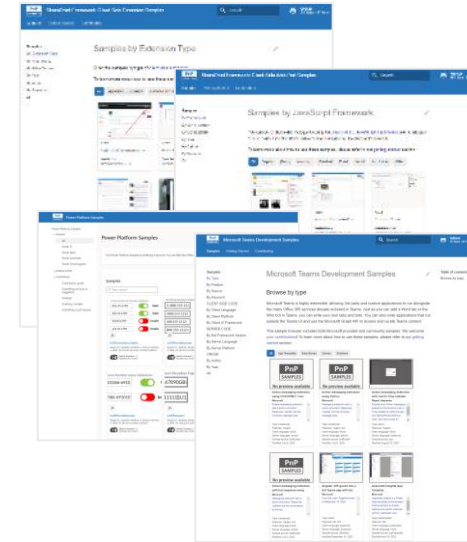aka.ms/m365devyoutube

# 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
(Notice. This call is on a summer break between July 1st and 31st of August 2022)

Adaptive Cards                                    https://aka.ms/adaptivecardscommunitycall
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
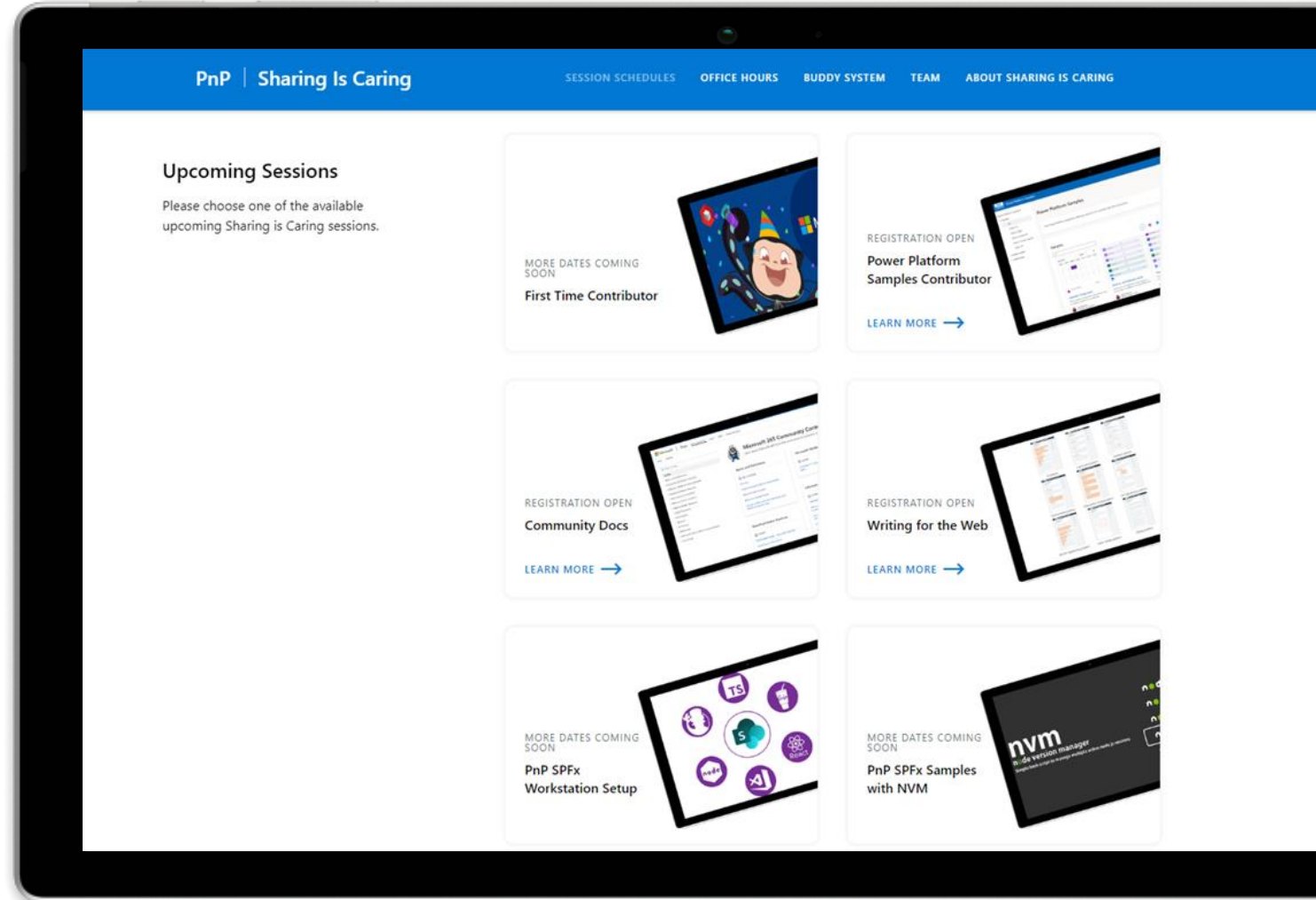**https://aka.ms/m365/calls**

# 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**

**Power Platform – Power Pages**

**COMING SOON**



PnP | Sharing Is Caring

SESSION SCHEDULES    OFFICE HOURS    BUDDY SYSTEM    TEAM    ABOUT SHARING IS CARING

### Upcoming Sessions

Please choose one of the available upcoming Sharing is Caring sessions.

MORE DATES COMING SOON
**First Time Contributor**

REGISTRATION OPEN
**Power Platform Samples Contributor**
LEARN MORE →

REGISTRATION OPEN
**Community Docs**
LEARN MORE →

REGISTRATION OPEN
**Writing for the Web**
LEARN MORE →

MORE DATES COMING SOON
**PnP SPFx Workstation Setup**

MORE DATES COMING SOON
**PnP SPFx Samples with NVM**

**https://aka.ms/sharing-is-caring**

# PnP .NET libraries

A set of libraries that helps Microsoft 365 .NET developers to be more productive when working with SharePoint and Teams

# PnP .NET libraries

| PnP Framework | PnP Core SDK |
|---|---|
| ■ 563,000 downloads!<br>■ Version 1.9.0 released!<br>■ Prepping 1.10.0 (**end of June**):<br>　■ Merge pending PRs<br>　■ General fixes and improvements: 👍 Miguel Angel García Martínez, Eduard Paul, Patrik Hellgren, Riccardo, Gautam Sheth, Daniel Pastoor and André Gouveia | ■ 758,000 downloads!<br>■ Version 1.6.0 released!<br>■ Prepping for 1.7.0 (**end of June**):<br>　■ Creating and updating document sets, event receiver support on ISite : Mathijs Verbeeck 👍 🤝 🚀<br>　■ Support for group creation using application permissions: Daniel Pastoor 👍<br>　■ Fixes and improvements: Daniel Pastoor, Bert Jansen 👍 |

**Working on it**

**Roadmap**

What key scenarios are still missing?

https://github.com/pnp/pnpcore/blob/dev/src/sdk/CHANGELOG.md
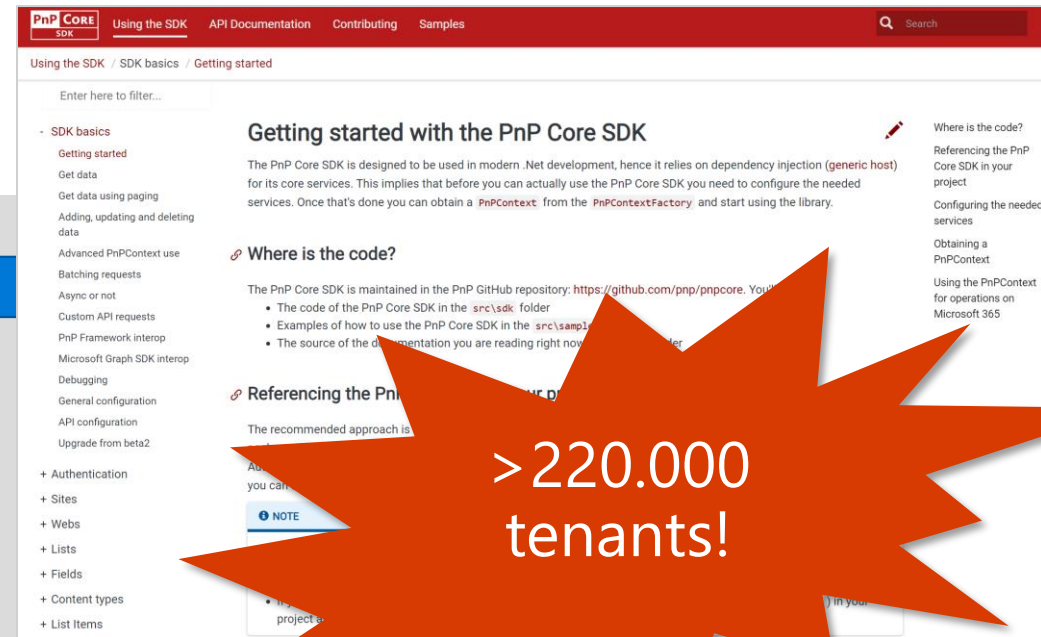
| | nuget.org/profiles/pnp | | nuget.org/profiles/pnp |
|---|---|---|---|
| | aka.ms/pnp/framework | | aka.ms/pnp/coresdk |

## PnP CORE SDK

Using the SDK   API Documentation   Contributing   Samples          Search

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
  - Async 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

### Getting started with the PnP Core SDK

The PnP Core SDK is designed to be used in modern .Net development, hence it relies on dependency injection (generic host) for its core services. This implies that before you can actually use the PnP Core SDK you need to configure the needed services. Once that's done you can obtain a `PnPContext` from the `PnPContextFactory` and start using the library.
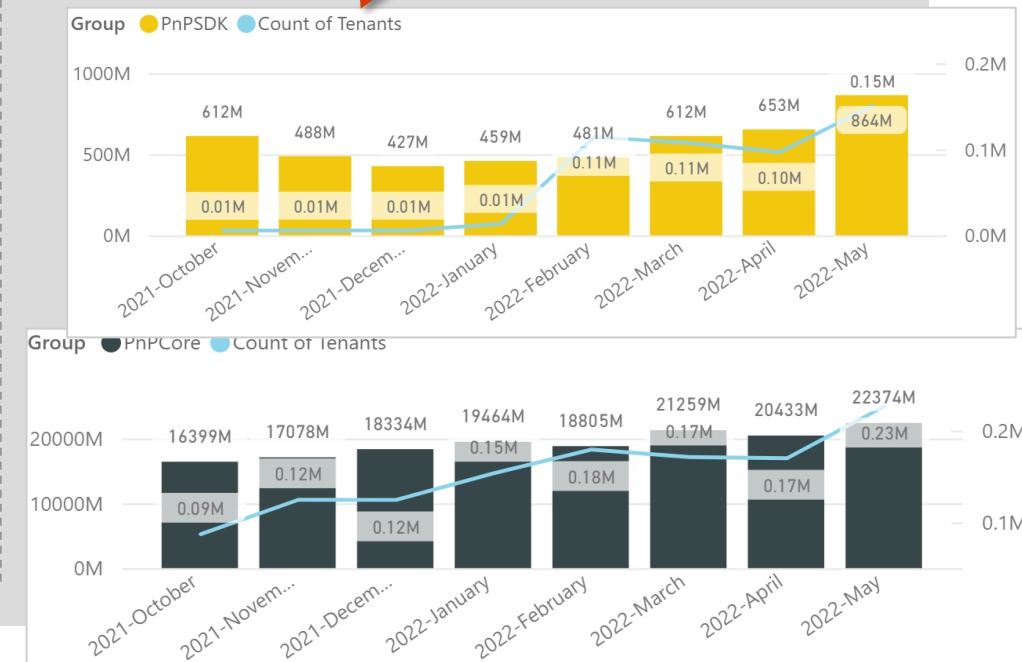
#### 🔗 Where is the code?

The PnP Core SDK is maintained in the PnP GitHub repository: https://github.com/pnp/pnpcore. You'll
- The code of the PnP Core SDK in the `src\sdk` folder
- Examples of how to use the PnP Core SDK in the `src\sampl`
- The source of the documentation you are reading right now

#### 🔗 Referencing the Pn

The recommended approach is
you can

ℹ NOTE

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

**>220.000 tenants!**

**Group** ● PnPSDK ● Count of Tenants

| | 2021-October | 2021-November | 2021-December | 2022-January | 2022-February | 2022-March | 2022-April | 2022-May |
|---|---|---|---|---|---|---|---|---|
| PnPSDK | 612M | 488M | 427M | 459M | 481M | 612M | 653M | 864M |
| Count of Tenants | 0.01M | 0.01M | 0.01M | 0.01M | 0.11M | 0.11M | 0.10M | 0.15M |

**Group** ● PnPCore ● Count of Tenants

| | 2021-October | 2021-November | 2021-December | 2022-January | 2022-February | 2022-March | 2022-April | 2022-May |
|---|---|---|---|---|---|---|---|---|
| PnPCore | 16399M | 17078M | 18334M | 19464M | 18805M | 21259M | 20433M | 22374M |
| Count of Tenants | 0.09M | 0.12M | 0.12M | 0.15M | 0.18M | 0.17M | 0.17M | 0.23M |

# PnP PowerShell

Open-source cmdlets which provide you an easy way to manage your SharePoint and Teams environment.

# PnP PowerShell

## Cross Platform PnP PowerShell

**V1.10.0 released!**

- **Many updates and fixes!**
- **2.2 million downloads!**
- **100 million cmdlets executed per day!!**
- Docs shifted, no more **docs.microsoft.com**
- Documentation, Articles and tips available at

  **https://pnp.github.io/powershell**

- PnP PS runs in **PS 5**, **PS 7**, **Azure CloudShell**, **Azure Functions, Azure Runbooks & Raspberry Pi**

- **Bug Fixes**
  - Added **Restart-PnPFlowRun** added to allow failed run to be retried.
  - Added **Get-PnPListItemPermission** to retreive item level permissions.
  - **Get-PnPTerm** now also returns deprecated terms if specified.
  - Improvements to **Connect-PnPOnline,** allows better switching, validation and storing of the connection objects
  - Bug fixes and improvements continue to 1.11 release.
  - What next ? Would love to hear your thoughts !

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

github.com/pnp/powershell

www.powershellgallery.com
PnP.PowerShell



PnP PowerShell v3
SPO/ 2013 / 2016 / 2019
.NET 4.6.1 / PowerShell 5

>29.500 tenants!
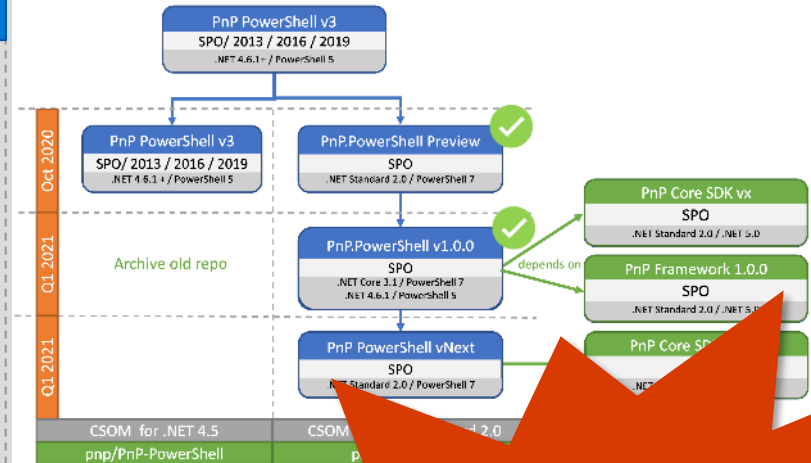
Group ● PnPPS ● Count of Tenants
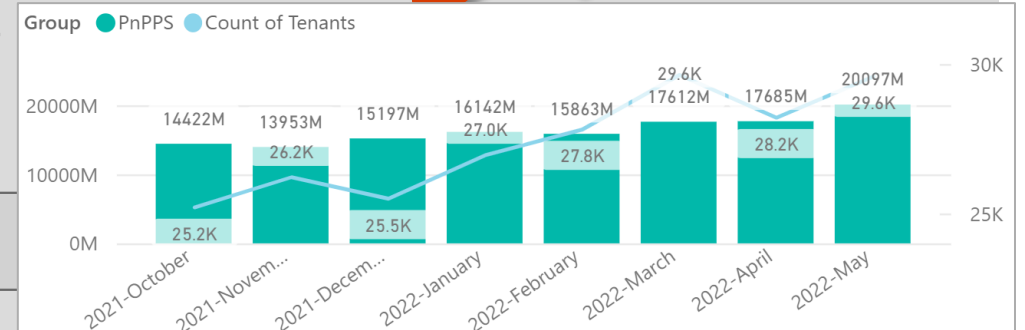
# yo teams

Open-source Yeoman generator for Microsoft Teams development

# yo teams

**43K**
Totals Downloads

## generator-teams – *The Teams apps generator*

📄 Docs published at https://pnp.github.io/generator-teams/

🚀 **Latest release: 3.5.0** [2021-11-18]

Improved telemetry (https://pnp.github.io/generator-teams/about/telemetry/)
Brand new template used for bot scaffolding – better aligned with Bot Fx code samples

👾 **Preview: 4.0.0-preview.3 [2022-05-23]**

Using @microsoft/teams-js version 2.0 (promise
Support for the m365DevPreview manifest
(Deprecation of scaffolding options for v4 · Disc
**Allows you to build Tabs for Outlook and Office.**

🗓 **Roadmap:**

4.0.0 GA release for //Build

### Package Downloads



> Version 4.0 is imminent – pending an issue with the new Teams JS SDK

## yoteams-build-core

🚀 **Latest release: 1.6.0** [2022-02-17]

PR #278, from Paul Schaeflein, with additional gulp-inject options
Support for schema m365DevPreview and 1.12

👾 **Preview: 1.7.0-preview.3** [2022-05-23]

Support for the m365DevPreview manifest
Fixed telemetry bug

🗓 **Roadmap:**
n/a

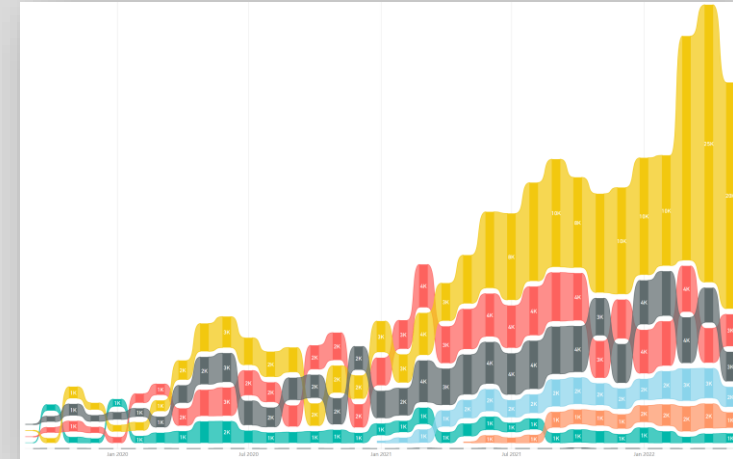## yoteams-deploy

🚀 **Latest release: 1.1.0** [2021-11-18]

Telemetry for tasks

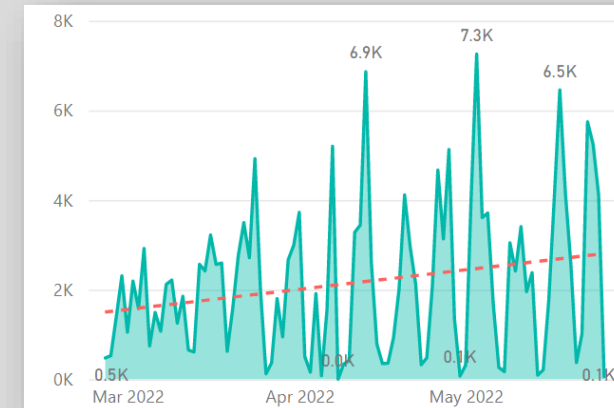👾 **Preview: : 1.2.0-preview.2** [2022-05-12]

Dependency updates

🗓 **Roadmap:**

n/a

### Daily build events

# Microsoft Graph Toolkit

Web Components powered by Microsoft Graph

# Microsoft Graph Toolkit

👀 More information: aka.ms/mgt

## What's new 🎉

- The MGT samples repository is now LIVE! https://aka.ms/mgt/samples
- v2.5.2 was released! Update your packages! https://aka.ms/mgt/v2.5.2
    - Updates to our Msal2 and Teams providers
    - GA release of our TeamsFx provider
    - Thanks @jocsch, @stniemin and @estruyf for your contributions 🎉
- Our playground is now a PWA! Have a look https://aka.ms/mgt/dev

## What's next? 💻

- Aligning all Toolkit components to Fluent UI Web Components
- More generic components and theming capabilities

## We need your help 🤍

- 🐛 Help us fix bugs
- [NEW] Help us build/improve features
- help-wanted & good-first-issue -> https://aka.ms/mgt/issues
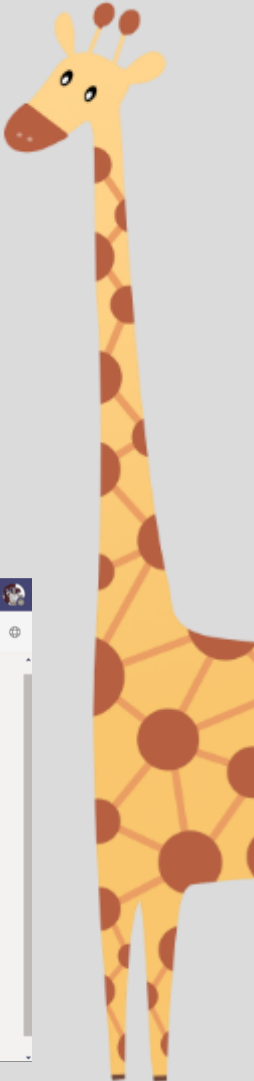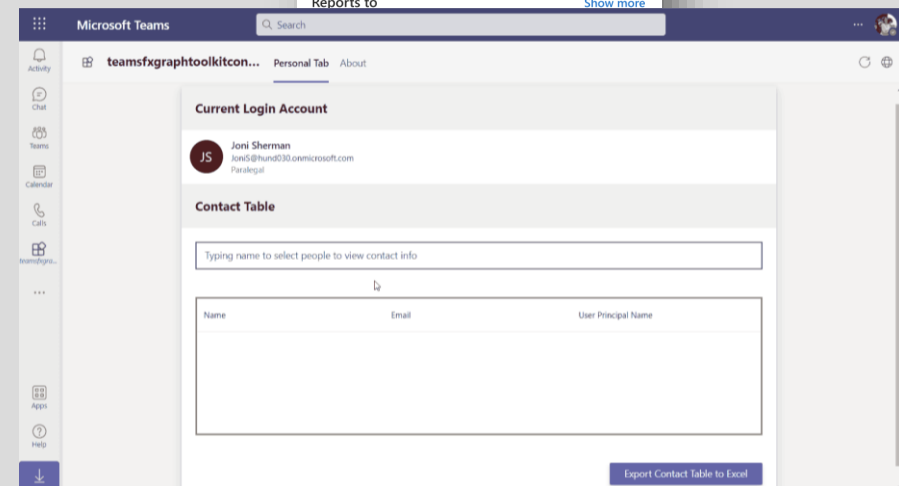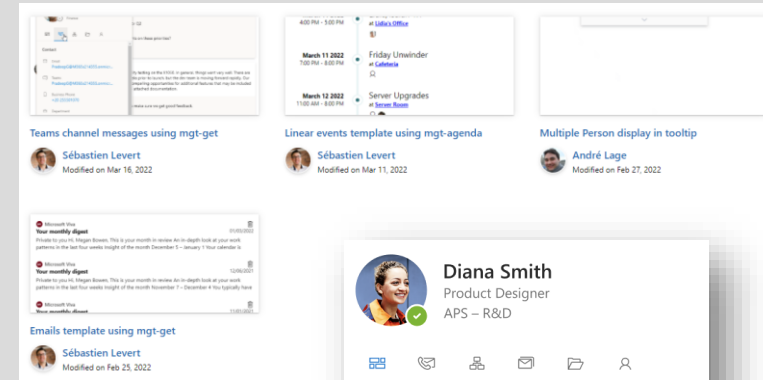
# Independent Publisher Connectors

## What's new

- **48 Awesome Independent Publishers!**
- **132 Independent Publisher connectors!**
- **4 New connectors:**
  - **Jay Jani-** MS Graph Groups and Users
  - **Mitanshu Garg-** RegEx Matching
  - **Troy Taylor-** Meme
  - **Troy Taylor-** Unofficial Netflix Search
- **1 Update to existing connectors:**
  - **Woong Choi-** GoQR (originally built by Rui Santos)

## We need your help

- **Become an Independent Publisher by building one of these connectors: [Top Connector Asks · microsoft/PowerPlatformConnectors Wiki (github.com)](https://github.com)**
- **Attend the next Power Platform LABs call on June 29 at 11am ET** at [aka.ms/PowerPlatformIntegrationLABs](https://aka.ms/PowerPlatformIntegrationLABs)
  - Welcome to the Community that will fuel and empower your dream towards building integration solutions! From key connector topics, such as implementing webhook triggers, to gateways- our goal is to learn together, ask questions, & provide the tools and knowledge needed to build your next integration to the Power Platform.

# SCRIPT SAMPLES

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

Site now has **152 scenarios** and **228 scripts**, using Microsoft Graph, CLI for Microsoft 365, PnP PowerShell, SPO Management Shell tooling and more...😄 AND samples integrated into "**Unified**" Solution Gallery

**Samples Include (Bumper Edition 🤩)**

*New scenarios using CLI for Microsoft*

- Copy planner plan by **Milan Holemans**

*Updated Scenarios with CLI for Microsoft 365 Scripts*

- Fetch User Profile Properties from Site Collection and export to CSV by **Mathijs Verbeeck**
- SharePoint Online Hub Site Association by **Jasey Waegebaert**
- Get SharePoint List or Library Permissions and export to CSV by **Nanddeep Nachan**
- Reset files permissions unique to inheritance by **Nanddeep Nachan**
- Script allow copy column format in SharePoint and appl to different column by **Jasey Waegebaert**
- Bulk Library generation by **Milan Holemans**
- Run a search query and export to CSV by **Smita Nachan**

*Updated Scenarios with PnP PowerShell Scripts*

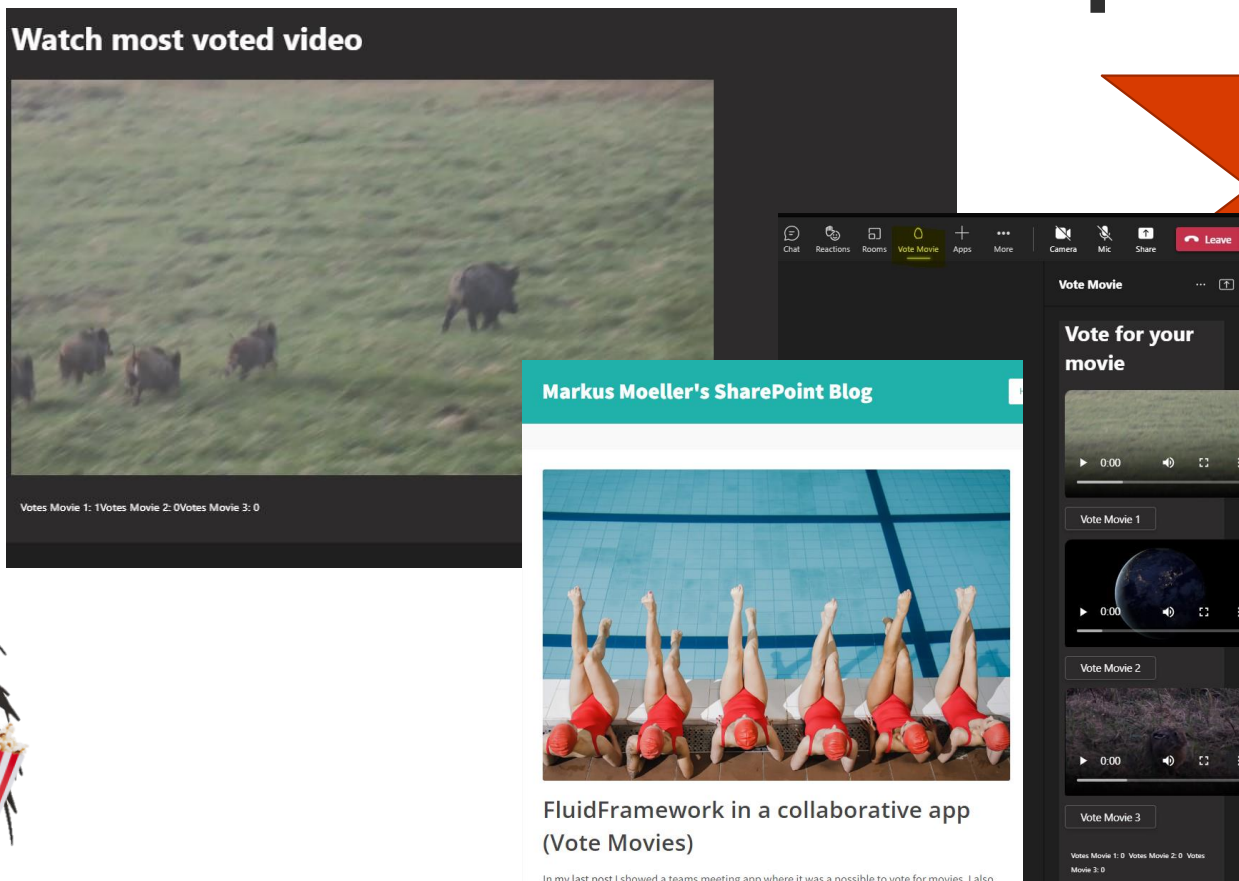- Planner migration to SharePoint List by **Reshmee Auckloo**

We have `good first issue` in the GitHub Repo with sample ideas of scripts you could write – thank you **Adam Wójcik**! *https://github.com/pnp/script-samples*

Thank you for your samples and contributions! 👏
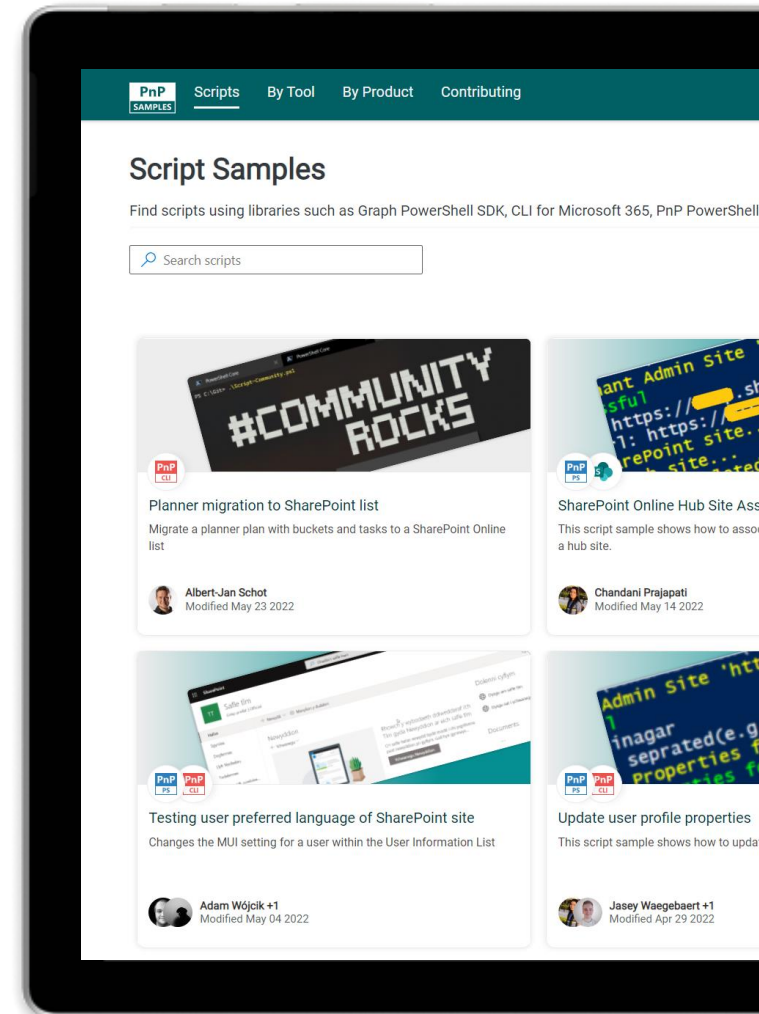
Microsoft

aka.ms/script-samples

# Microsoft Teams Samples

**Watch and vote for movies in a Teams meeting!**

- Meeting app with sidebar and stage view
- Vote and watch movies together
- Uses Fluid Framework
- Detailed blog article https://mmsharepoint.wordpress.com/

https://aka.ms/tab-meeting-stageview-vote-movie

Many thanks to
Markus Moeller (@Moeller2_0)
for yet another amazing sample!

Check out all the samples!
https://aka.ms/m365-samples

Teams samples w/filtering
https://aka.ms/teams-samples

# 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

**TwoPoints**
Calculate distance in unit of meter and compass heading.
Hiroaki Nagao
Modified Mar 06 2021

**AddTopValue**
Adds a value to a list of values ready to use in a drop down box. Returns a single column, named Result, table.
Laura GB
Modified Mar 05 2021

**IsTime**
Regex to validate time format [hh:mm:ss]/[hr:min:sec]/[mm:ss]/[m:s]/[ss]/[s]
Geetha Sivasaiam +1
Modified Feb 28 2021

**Custom Font Samples**
177 custom font samples for Power Apps
Matthew Devaney
Modified May 12 2021

**timer**
Example of how to use the timer function as a stopwatch
Michael Roth
Modified May 03 2021

**Expandable Navigation**
This Canvas Application is an example for a expandable navigation using Fluent UI icons.
Luise Freese
Modified Apr 25 2021

**Tag Box**
Contains a textbox that adds items into a dynamic list.
Carmen Ysewijn
Modified Apr 23 2021

**Status Indicator**
Shows how to add a status indicator in a display form.
Derek Cash-Peterson
Modified Feb 23 2021

**chkContrast**
Calculates the contrast between two colors
P3N
Modified May 07 2021

**getLuminance**
Calculates the relative luminance of linearized RGB colors
P3N
Modified May 07 2021

**HexToDecimal**
This function is used to convert hex to decimal.
Korune
Modified Mar 13 2021

**ConvertUnit**
Perform unit conversion for length.
Hiroaki Nagao
Modified Mar 06 2021

**IsInCurrentDay**
Checks if a date occurs within the current day
Matthew Devaney
Modified Feb 07 2021

**IsLeapYear**
Checks if a date belongs to a leap year
Matthew Devaney
Modified Feb 07 2021

**IsUSPhoneNumber**
Regex to validate whether a string matches a valid US phone number pattern
Geetha Sivasaiam +1
Modified Apr 17 2021

**IsURL**
Regex to validate whether a string matches a valid URL pattern
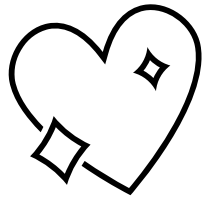Geetha Sivasaiam +1
Modified Apr 17 2021

Join the Power Platform Contributors
Sharing is Caring Session – Wednesday June 29th

# 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.*

# DEMO

- Independent Publishing Connectors Sessionize Demo
  – Nanddeep Nachan
  – Smita Nachan

- List Formatting - Payment Registration
  – André Lage

- Understanding Sites.Selected permissions in SharePoint Online
  – Paolo Pialorsi

# 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 | @M365PnP

Next M365 General Dev call: **June 23rd at 07:00am PT**
Next Viva Connections & SharePoint Framework call: **June 16th at 07:00am PT**
See all other community calls from https://aka.ms/m365/community

Microsoft

Microsoft

Thank you