

Microsoft 365 & Power Platform Development – Bi-weekly call

January 5th, 2023

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!**

- **Luise Freese** - Building Find Time solution with Microsoft Graph and Power Apps

- **Chris Kent** – List Formatting Magic



Opportunities to Participate in the community

Demo solution
or technical
pattern

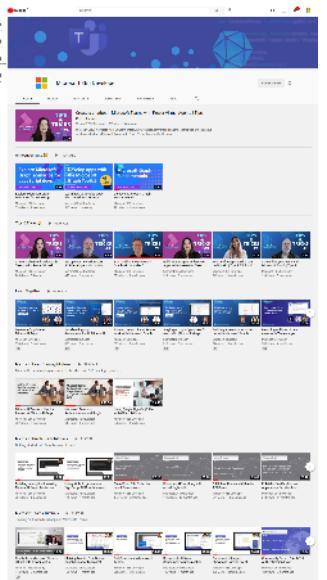
Contribute on
GitHub

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.

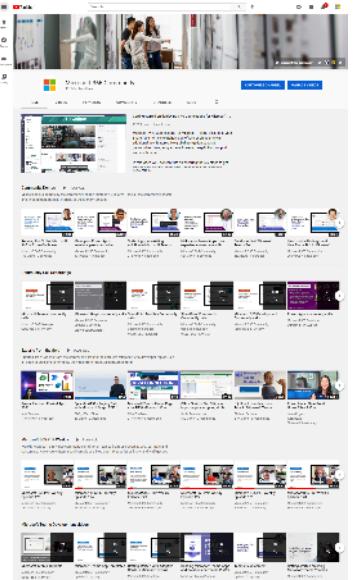
Request a demo spot on the call
<https://aka.ms/community/request/demo>

Microsoft 365 developer videos



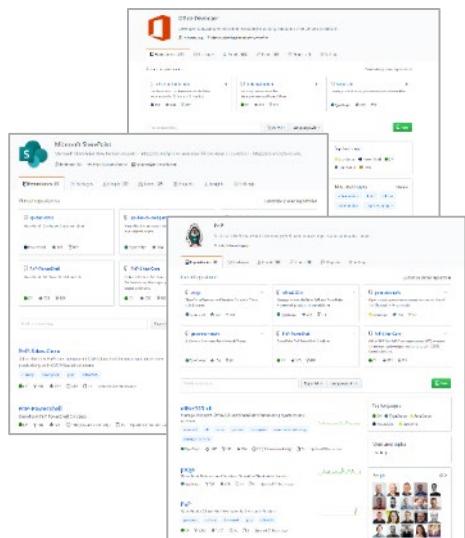
aka.ms/m365devyoutube

Microsoft 365 community videos



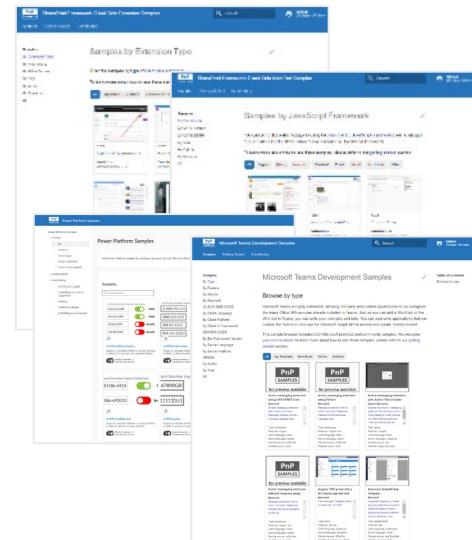
aka.ms/m365pnp/videos

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/community/calls>

Microsoft 365 platform call

10th of January @8 AM PT

- Latest news from Microsoft engineering on the [Microsoft 365](#) topics
- Community together mode group photo
- **Maisa Rissi** and **Peter Ombwa**– Introduction Microsoft Graph PowerShell v2 preview release
- **Vesa Juvonen** and **Andrew Connell** (Voitanos) – Introduction to Viva Connections learn module - Tutorial part 1
- **Waldek Mastykarz** – Test how your SPFx solutions respond to throttling with Graph Developer Proxy

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



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

The screenshot shows the homepage of the "Sharing Is Caring" website, which is part of the "PnP" community. The top navigation bar includes links for "SESSION SCHEDULES", "OFFICE HOURS", "BUDDY SYSTEM", "TEAM", and "ABOUT SHARING IS CARING". The main content area is titled "Upcoming Sessions" and displays six session cards, each featuring a cartoon character and a "MORE DATES COMING SOON" message. The sessions listed are: "First Time Contributor" (Power Platform Samples Contributor), "Community Docs" (Microsoft 365 Community Docs), "Writing for the Web" (Writing for the Web), "SPFx Workstation Setup" (PnP SPFx Samples with NVM), and "PnP SPFx Samples with NVM". Each card also has a "LEARN MORE" button.

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

COMMUNITY



<https://aka.ms/community/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

PnP Framework

- >971K downloads!
- Released version 1.11.0
- Support for .NET 7, C# 10
- Documentation site ([PnP Framework documentation](#) | [PnP Framework](#)) started by Paul Bullock 🎉 & 🚀
- viewTypeKind property being ignored when provisioning views: Giacomo Pozzoni 🎉 & 🚀

Roadmap

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

nuget.org/profiles/pnp

aka.ms/pnp/framework

PnP Core SDK

- >1.218M downloads!
- Released version 1.8.0
- Support for .NET 7, C# 10
- Several small changes for supporting the upcoming Classic assessment module of the Microsoft 365 Assessment tool : Bert Jansen 🎉 & 🚀

What key scenarios
are still missing?

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/pnppcore>. You'll find:

- 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 in the `docs` folder

Referencing the PnP Core SDK in your project

The recommended approach is to use the preview `PnPCore.nuget package` together with the preview `PnPCore.Auth.nuget package`. The former is the actual PnP Core SDK library, while the latter is an helper library that provides a useful set of Authentication Providers to authenticate against Azure Active Directory. Each night these preview packages are refreshed, so you can always upgrade to the latest dev bits by upgrading your nuget package to the latest version.

NOTE

- If you want to use the PnP Core SDK authentication providers then simply add the `PnPCore.nuget package`, the correct `PnPCore.nuget package` will be automatically added as a dependency.
- If you want to debug the SDK code you can include the `PnPCore` folder (and its `PnPCore.csproj`) in your project as a reference.

~43 billion
requests a
month!





PnP PowerShell

Working on it

Cross Platform PnP PowerShell

V1.12.0 is out !!!

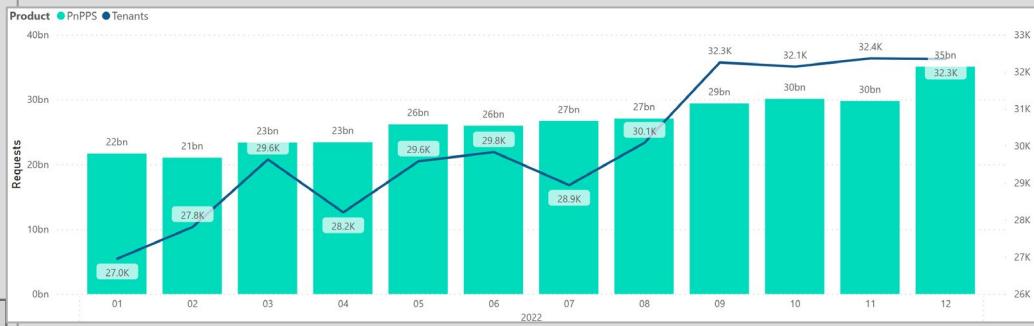
Many updates, improvements and fixes!

- **4.4 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
- Fix **Export-PnPUserInfo** and **Remove-PnPUserInfo** cmdlets
- Added **-EnvironmentVariable** parameter to **Connect-PnPOnline**, so that you can reuse Azure env variables and authenticate
- **Coming soon – HTTP/2 support which improves performance**
- **Would love to hear from you. Discussion/feedback/issues - head to Github ?**
- **Would love to have you contribute to the repo, we have around 88 open issues and feature requests :)**

>32.000 tenants in a month!



github.com/pnp/powershell



www.powerShellGallery.com
PnP.PowerShell

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



yo teams <https://aka.ms/yoteams>

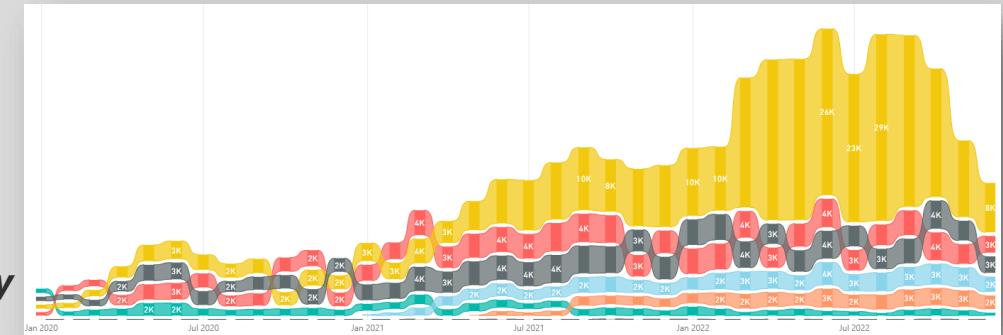
48K

Totals Downloads

What's new 🎉

- Preparing a new release for generator-teams v4.1.0 & yoteams-build-core v1.9.0
 - Added support for Teams manifest versions 1.14 and 1.15
 - Fixed some minor things in the generator

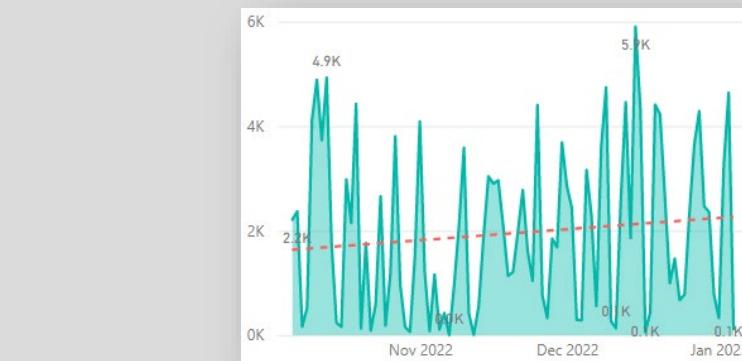
Package Downloads



What's next? 💻

- Release version 4.1.0 of yo teams
- 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 4.2.1 in VS Code – released 23rd of December
 - ***Use the new Dashboard tab template to create a personal and collaborative canvas in Teams. Learn more about this new template in the documentation.***
- Step-by-step guidance in Visual Studio Code to assist you while creating a free Microsoft 365 testing tenant.
- Scaffolds that use SharePoint Framework (SPFx) have been updated to use SharePoint Framework version 1.16 which introduces the ability to build experiences for Outlook and Office.com (Microsoft 365 app) in addition to Teams.
- 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

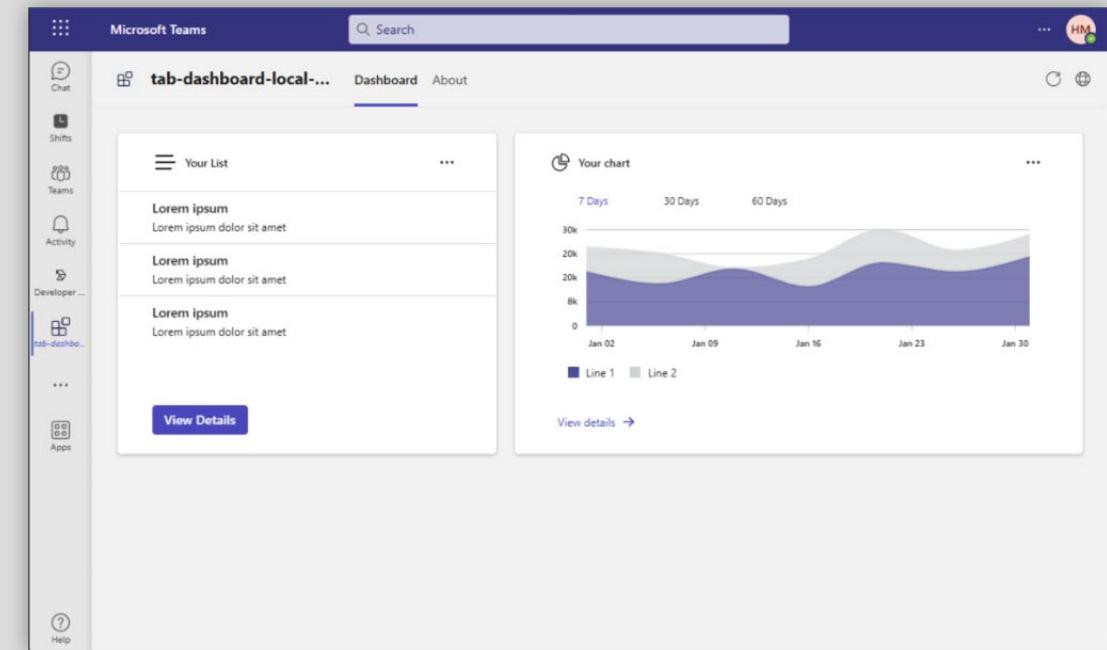
What's next? 📈

- 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>

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





Microsoft Graph Toolkit

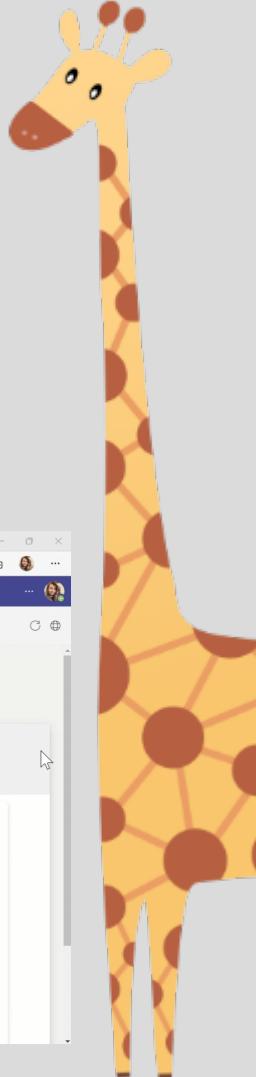
More information: aka.ms/mgt

What's new 🎉

- Just shipped! V2.9.0 is our latest release! Update your packages! <https://aka.ms/mgt/2.9.0>
 - Updates to the mgt-person-card and mgt-people-picker
 - Thanks @nmtoblum and @sympmarc for your contributions 🎉
- The MGT samples repository is live! Keep your contributions coming!
<https://aka.ms/mgt/samples>

The collage includes:

- Teams channel messages using mgt-get
- Linear events template using mgt-agenda
- Multiple Person display in tooltip
- Emails template using mgt-get
- A Microsoft Teams contact card for Diana Smith
- A Microsoft Teams personal tab showing Ayca Bas's profile and activity
- A One Productivity Hub interface displaying 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 of 2022!

Top Publishers

1. Troy Taylor
2. Paul Culmsee
3. Tomasz Poszytek
4. Andras Fordos
5. Roy Paar

Top Connectors

1. Snowflake
2. OpenAI
3. GitHub Gists
4. Google Books
5. eBay

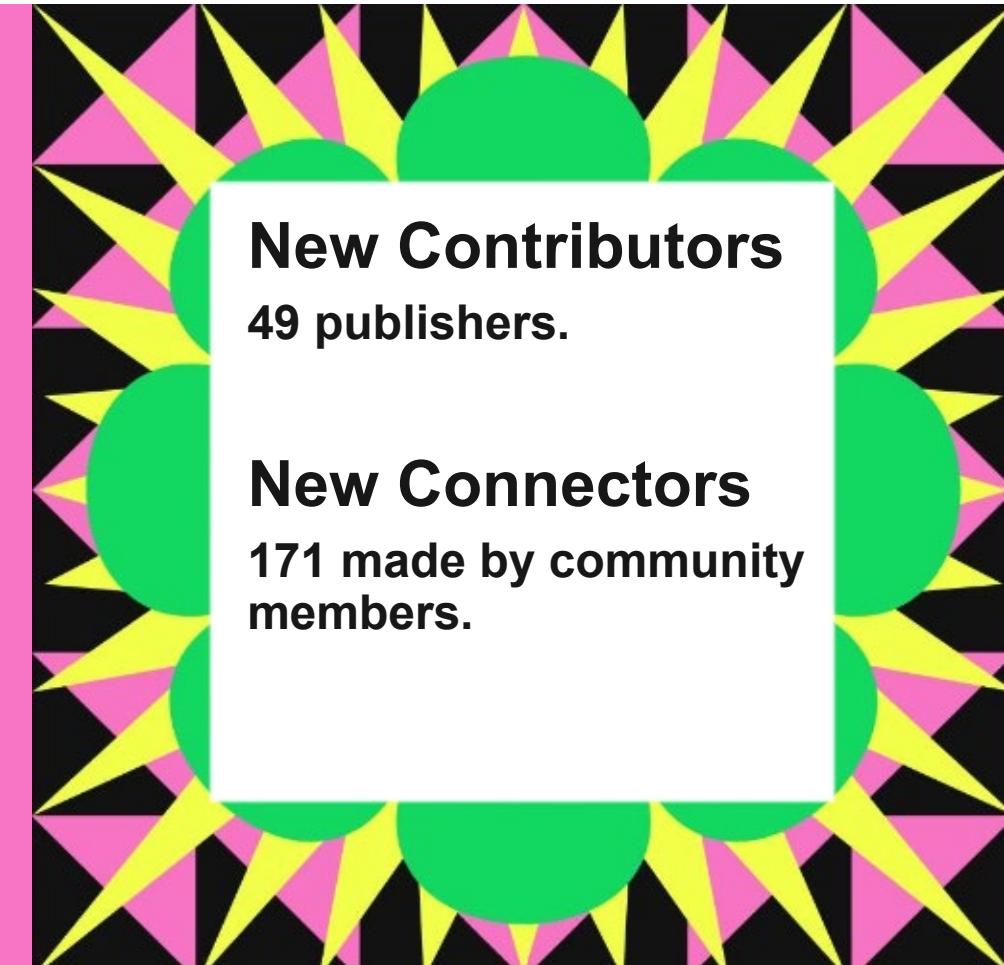


We need your help

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



SCRIPT SAMPLES

Site now has 149 scenarios and 199 scripts, using Microsoft Graph, PnP PowerShell, SPO Management Shell tooling, CLI for Microsoft 365 and more... 😊 AND samples integrated into *Microsoft Sample Solution Gallery*

Awesome 🎉 😊 🎉 Samples Include :

New Scenarios using PnP PowerShell

- How to extract the employees shown in the People Web part on pages in a selection of Site Collections to CSV by **Kasper Larsen**

Remember to opt-in to the recognition program



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.

We have **sample idea** in the GitHub Repo with sample ideas of scripts that you could contribute to, please comment to assign ☺ <https://github.com/pnp/script-samples>

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!

A screenshot of a web application titled "Script Samples". The header includes tabs for "PnP SAMPLES" (which is active), "Scripts", "By Tool", "By Product", and "Contributing". On the right, there are navigation links for "All", "Modernize", "Data", "Deploy", "Provision", "Configure", "Report", and "Security". Below the header is a search bar labeled "Search scripts". The main content area displays several cards, each representing a different script scenario. The cards include:

- "Extract the employees shown in the People Web part on pages in a selection of Site Collections to CSV" by Kasper Larsen (Modified Dec 23 2022)
- "Extract the configuration of a PnP Modern Search results web part and apply it on another site collection" by Kasper Larsen (Modified Dec 14 2022)
- "Activate a site feature in SharePoint online" (This sample script shows how to Activate a site feature in SharePoint online site.)
- "Remove modern web parts from pages" (Remove modern web parts from pages by their Id, Instance Id, or Title)
- "Create a multi-hub set of communication sites" (This sample builds 9 SharePoint communication sites, creates three hub sites and associates them to a main hub site)
- "Deploy sppkgs and install apps" (Deploy all packages from a local folder and install the apps to the SharePoint site.)

The GitHub logo and a link to "GitHub p76 ⭐ 103" are visible in the top right corner of the screenshot.

aka.ms/script-samples



Microsoft Teams Samples

OpenAI Bot in Teams

With special thanks to
Lee Ford!

[@lee_ford](https://aka.ms/bot-openai)

Check out all the samples at
<https://aka.ms/m365/samples> !



The screenshot shows a Microsoft Teams chat window titled "OpenAI Bot Chat". The sidebar lists recent conversations with "OpenAI Bot", "Good Vibes", and "Power Automate". The main area shows messages from the "OpenAI Bot" bot:

- 11:12 Why does cheese taste so good?
Cheese contains umami, which is a savory flavor that increases its pleasurable. Cheese also contains fatty acids and amino acids, which activate the receptors on our tongues and make it taste even better.
- 11:13 Tell me a haiku for Microsoft Teams
One collaboration Teamwork made easy Power in unity.
- What is the meaning of life?



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

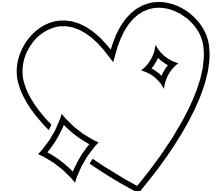
The collage includes the following samples:

- TwoPoints**: Calculate distance in unit of meter or compass heading.
- AddTopValue Examples**: Add items to top of lists.
- Custom Font Samples**: Showcase various fonts.
- timer**: Example of how to use the timer function as a stopwatch.
- Expandable Navigation**: An example of expandable navigation using Fluent UI icons.
- Tag Box**: Contains a textbox that adds items into a dynamic list.
- 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 values to decimal.
- ConvertUnit**: Perform 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 to validate US phone numbers.
- IsUSPhoneNumber**: Regex to validate US phone numbers.
- input Validation**: Validates input fields against URL patterns.
- IsURL**: Validates input fields against URL patterns.

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 laptop screen displays a woman's face and a Star Wars character. The background is a blue gradient.

DEMO

- **Building Find Time solution with Microsoft Graph and Power Apps**
 - Luise Freese
- **List Formatting Magic**
 - Chris Kent

Q&A



Thank you

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

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

(subscribe today)

Follow us on Twitter

[@Microsoft365Dev](https://twitter.com/Microsoft365Dev) | [@M365PnP](https://twitter.com/M365PnP)

Next M365 General Dev call: **January 19th at 07:00am PT**

Next Viva Connections & SharePoint Framework call: **January 12th at 07:00am PT**

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



Thank you