

Your host in this call:  
Marc D Anderson (Sympraxis)

# Viva Connections & SharePoint Framework Bi-weekly sync

November 17<sup>th</sup>, 2022

Microsoft 365 Platform Community team



# Agenda

- Latest update on the SharePoint Framework
- Patterns and Practices Updates
  - PnPJs
  - CLI for Microsoft 365
  - Reusable PnP SPFx controls
- New Community Samples
- Picture time with Together Mode!
- Demos
  - **Siddharth Vaghasia** (Tata Consulting) – Add form customizers to list web part
  - **Nick Brown** (Jisc) - Using Fluent UI 9 in SPFx solutions
  - **Niklas Wilhelm** (NetForce 365) – Visualizing dynamically SharePoint data within SPFx solutions using ERD model



# Opportunities to Participate in Microsoft 365 platform community

## SPFx Demo

- Web Part
- Application Customizer
- Provisioning
- Teams
- Outlook
- Anything you create!

## @pnp Demo

- PnPjs
- CLI for Microsoft 365
- SPFx Reusable Controls
- SPFx Community Yeoman

## Contribute on GitHub

- Report Issues
- Submit Pull Requests
- Help with issues/questions

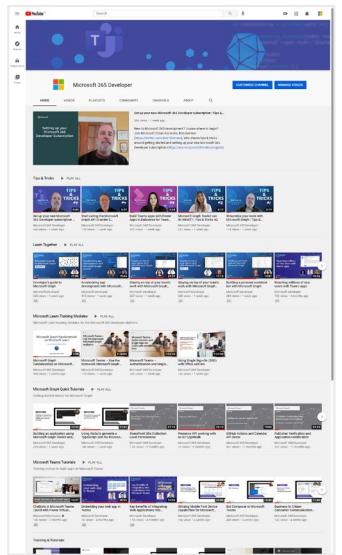
## Provide Feedback

- How are the calls?
- Documentation needs?
- Where can we help?
- Positive is OK too!

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.

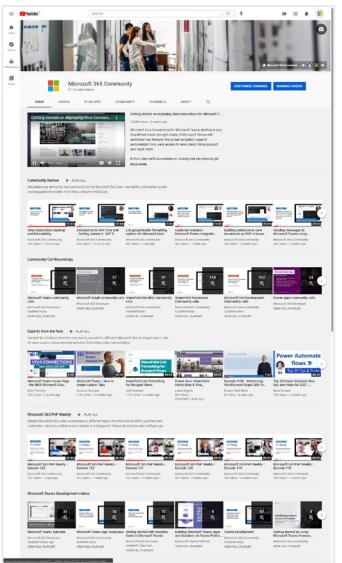
Request a demo spot on the call  
<https://aka.ms/m365pnp/request/demo>

## Microsoft 365 developer videos



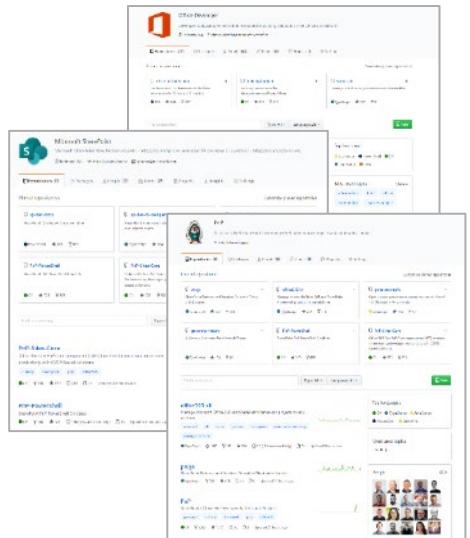
[aka.ms/m365devyoutube](https://aka.ms/m365devyoutube)

## Microsoft 365 community videos



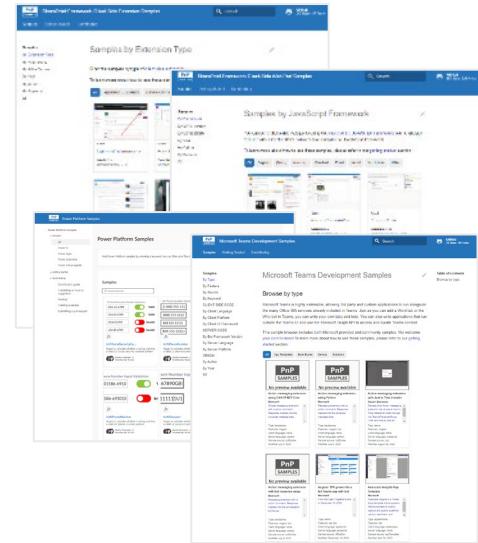
[aka.ms/m365/videos](https://aka.ms/m365/videos)

## Open-source



[github.com/pnp](https://github.com/pnp)  
[github.com/OfficeDev](https://github.com/OfficeDev)  
[github.com/microsoftgraph](https://github.com/microsoftgraph)  
[github.com/sharepoint](https://github.com/sharepoint)  
[github.com/OneDrive](https://github.com/OneDrive)

## Sample galleries



[aka.ms/m365/samples](https://aka.ms/m365/samples)  
[aka.ms/teams-samples](https://aka.ms/teams-samples)  
[aka.ms/spfx-webparts](https://aka.ms/spfx-webparts)  
[aka.ms/spfx-aces](https://aka.ms/spfx-aces)  
[aka.ms/powerplatform-samples](https://aka.ms/powerplatform-samples)  
[aka.ms/spfx-extensions](https://aka.ms/spfx-extensions)  
[aka.ms/list-formatting](https://aka.ms/list-formatting)

## Open-source initiatives and samples



[aka.ms/m365/community](https://aka.ms/m365/community)

# Microsoft 365 developer community calls

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

Microsoft identity platform  
Office Add-ins  
Power Platform

<https://aka.ms/IDDevCommunityCalendar>  
<https://aka.ms/officeaddinscommunitycall>  
<https://aka.ms/PowerPlatformCommunityCall>

Microsoft 365 & Power Platform community (bi-weekly)  
Viva Connections & SharePoint Framework (bi-weekly)

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

Download recurrent invites from

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

## AGENDA

# Microsoft 365 platform call 22<sup>nd</sup> of November @ 8 AM PT

Weekly call with Microsoft presenters covering the latest Microsoft 365 platform updates

Download recurrent invite from  
<https://aka.ms/m365-dev-call>

- Latest news from Microsoft engineering on [Microsoft 365](#) topics
- Monthly community contributors
- Community together mode group photo
- **Vesa Juvonen** – Creating SPFx powered multi-tab solution using Microsoft Teams Toolkit
- **Bill Baer** – Microsoft Search Usage Reports
- **Ayca Bas** – Build your first Notification bot in C# for Microsoft Teams with Teams Toolkit for Visual Studio

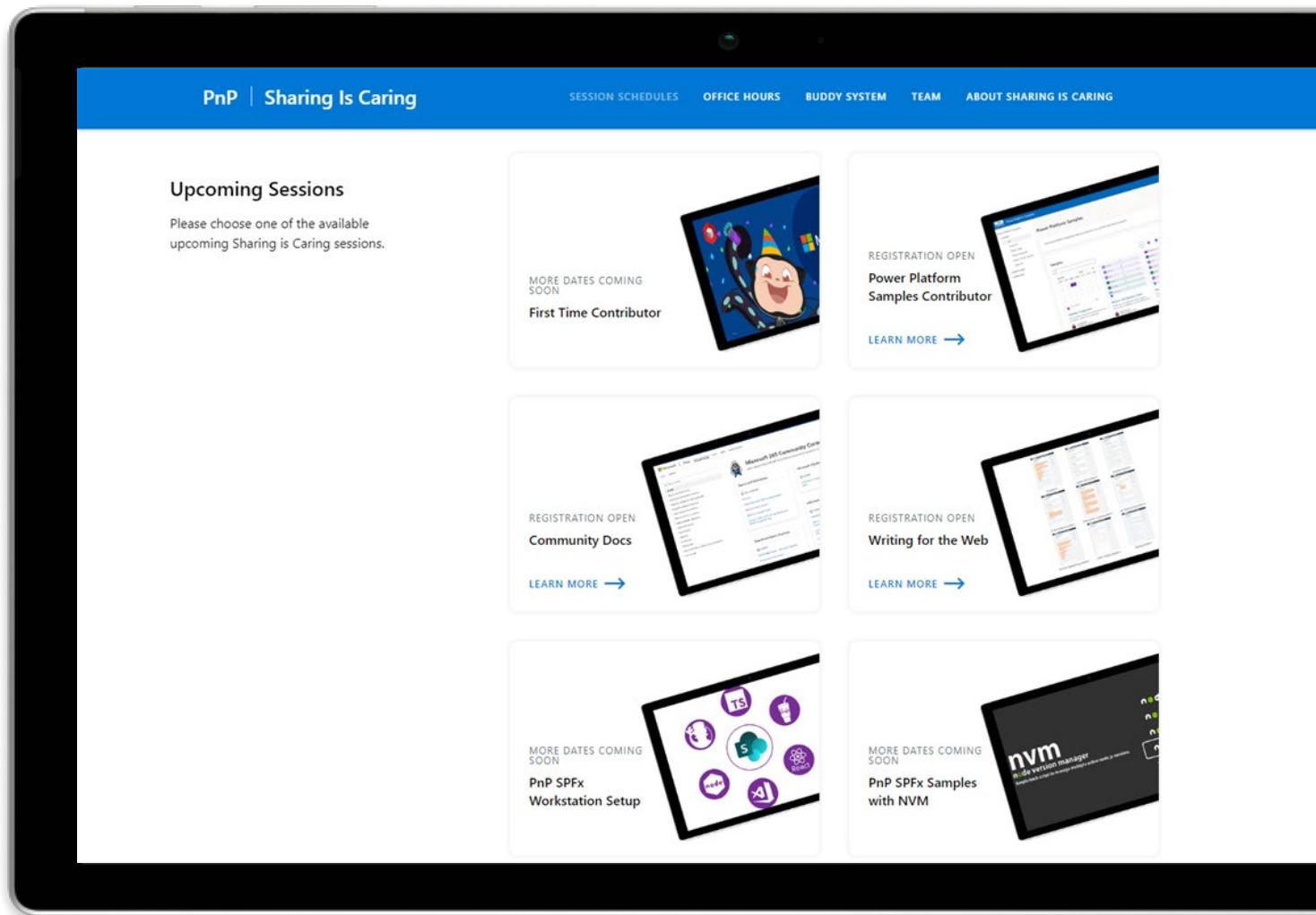


# GUIDANCE

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

- First-time contributor
- Community docs
- **Writing for the Web**
- **Power Platform Samples Contributor**
- Using PnP SPFx samples w/ NVM
- SPFx developer workstation setup
- More than code with VS Code
- First-time presenter
- M365 Maturity Model Practitioners

Power Platform  
Samples Contributor  
Nov 28th



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

# COMMUNITY



# Recognition Program

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



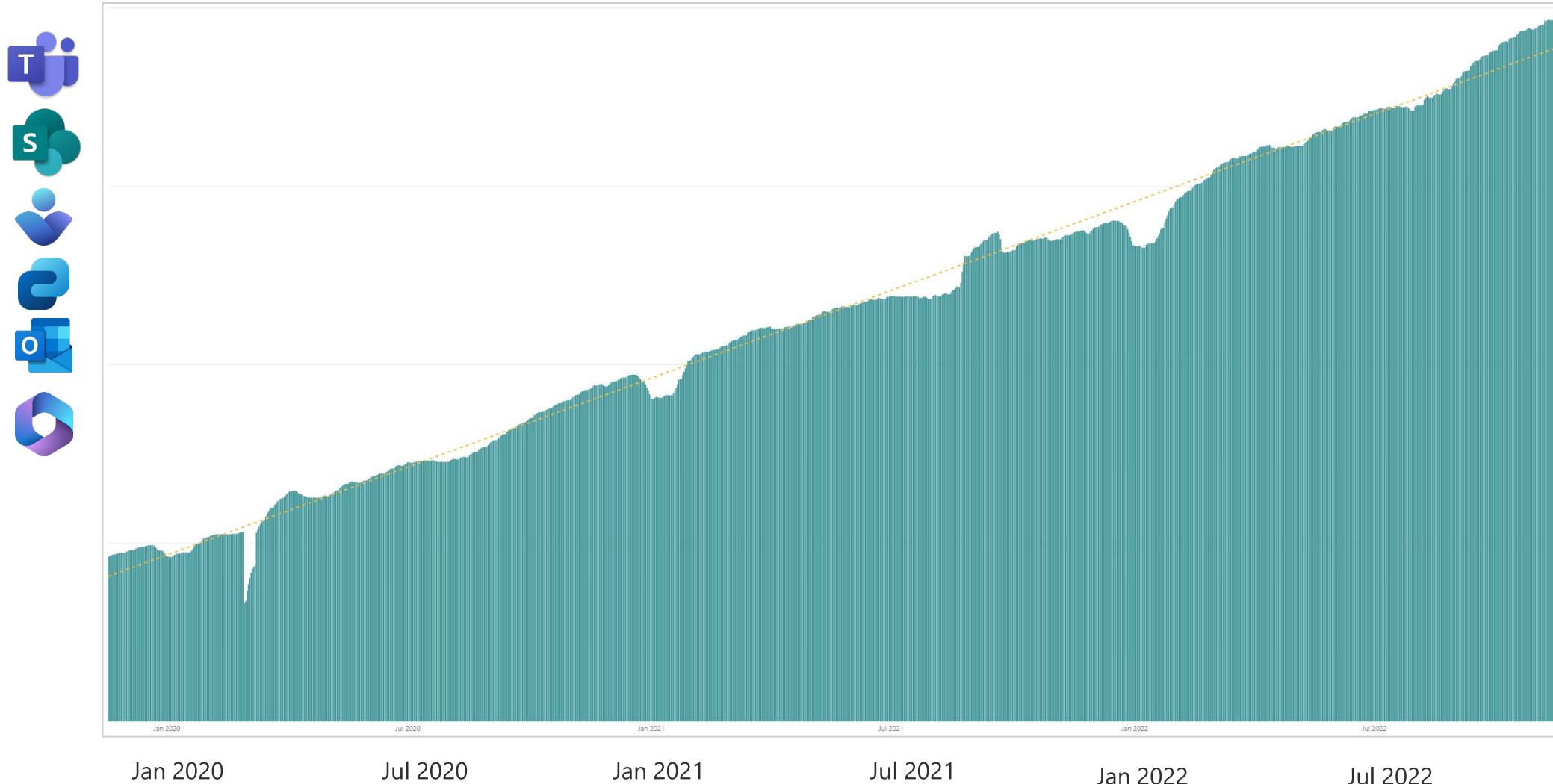
<https://aka.ms/m365pnp-recognition>

# SharePoint Framework

Latest from Microsoft engineering for Microsoft Viva, Microsoft Teams and SharePoint extensibility

# Rolling 28 days active users (MAU) for custom SharePoint Framework components in M365

There are currently tens of millions of monthly active users for custom SharePoint Framework components in Microsoft 365 created by partners and customers





# Announcing SharePoint Framework 1.16 General Availability

Microsoft 365 Developer

<https://aka.ms/SPFx/116>

The screenshot displays a SharePoint site with multiple custom dashboards and apps. At the top, there's a navigation bar with links like 'SharePoint', 'The Landing', 'Leads Dashboard', and 'Edit'. Below the navigation, there are three main dashboard cards:

- Activity overview (Microsoft Teams):** Shows activity levels for Microsoft Teams, including 1130 team calls, 740 emails, and 910 texts from January to July.
- Activity overview (Outlook):** Shows activity levels for Outlook, including 1130 team calls, 740 emails, and 910 texts from January to July.
- Activity overview (Office):** Shows activity levels for Office, including 1130 team calls, 740 emails, and 910 texts from January to July.

On the left side, there's a vertical navigation bar with icons for Chat, Teams, Calendar, Calls, Files, Lead Assist, Create, My Content, Outlook, Teams, Word, Excel, PowerPoint, Admin, and Help. On the right side, there's a sidebar with a 'Button' dropdown menu showing options: Compact, Filmstrip, Grid, Button, List, and Tiles. Below the sidebar, there's a mobile device preview showing the 'Microsoft Viva' app interface with sections for Dashboard, Feed, Resources, Tasks, Viva Learning, To-do, Reflection, and more.



# The Road Ahead – SPFx roadmap

- **1.16 General Availability on 15<sup>th</sup> of November**
  - Teams JavaScript SDK v2 native support in SPFx solutions – rolling out also to existing solution for extending SPFx solutions across the Microsoft 365 areas
  - New Top Actions support for web parts (preview) - Top Actions allow developers to add custom actions to web part's command bar. The feature is like property pane controls but based on cleaner UI approach.
  - ... and more... 🚀
- **1.17 ETA in first quarter of 2023**
  - Bot Framework powered Microsoft Viva cards
  - Node v18 support, React update and more technical updates
  - New features, capabilities and improvements across the feature stack
- **“SPFx v2” planned for 2023 with more comprehensive support for Microsoft 365 all up platform**

and more across Microsoft Viva, Microsoft Teams, Outlook, Microsoft 365 app and SharePoint...even more to come.

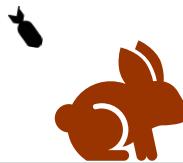


# PnPjs Client-Side Libraries





# PnPjs Client-Side Libraries



**Version 3.9 released Nov 11<sup>th</sup>**

- General documentation updates
- Added ability graph getsite by resourceId
- Added support for multi-line batch responses
- Added the ability to invoke SP Search and Suggest and updated corresponding documentation
- Fix for awaiting the completePromises in batches when using caching.
- Fix graph search endpoint returning improperly formed root drive.

Don't forget about the nightly builds

*npm install @pnp/sp@v3nightly --save*

Docs: <https://pnp.github.io/pnpjs/> @m365pnpjs on twitter



# CLI for Microsoft 365





# CLI for Microsoft 365

## New v6 beta release:

- **Eight** new commands for **Power Platform** with support for managing *cards, tables, solutions and publishers*
- **Eight** new commands for **SharePoint Online** with support for managing *file versions, hub site connections and folder role assignments*
- **Two** new commands for **Azure Active Directory** with support for retrieving *app registrations* and *inviting external user to org*
- And *much more...*

## Install and run v6 beta:

```
npm install -g @pnp/cli-microsoft365@next
```

```
docker run --rm -it m365pnp/cli-microsoft365:next
```

The screenshot shows the GitHub repository page for 'CLI for Microsoft 365'. The repository has 472 tweets. The README file contains a description of the CLI's capabilities, mentioning its ability to manage Microsoft 365 tenants and SharePoint Framework projects across various platforms (Windows, macOS, Linux) using Bash, Cmder, or PowerShell. It also highlights the ability to configure Microsoft 365, manage SharePoint Framework projects, and build automation scripts. A screenshot of a terminal window shows the CLI in action. The repository is owned by '@climicrosoft365' and was joined in February 2018.

## Release notes:

<https://pnp.github.io/cli-microsoft365/about/release-notes/>

🐦 [@climicrosoft365](https://twitter.com/climicrosoft365) #CLIMicrosoft365  
📖 [aka.ms/cli-m365](https://aka.ms/cli-m365)  
💬 [discord.com/invite/7rfW4kg6B5](https://discord.com/invite/7rfW4kg6B5)

# SPFx Reusable Components





# Reusable SPFx Controls

## React Controls – 3.12.0

- Enhancements for DynamicForm and SitePicker
- SPFx v1.16.0 support
- Various fixes

Release notes: <https://pnp.github.io/sp-dev-fx-controls-react/about/release-notes/>



## React Property Controls – 3.11.0

- SPFx v1.16.0 support
- Various fixes

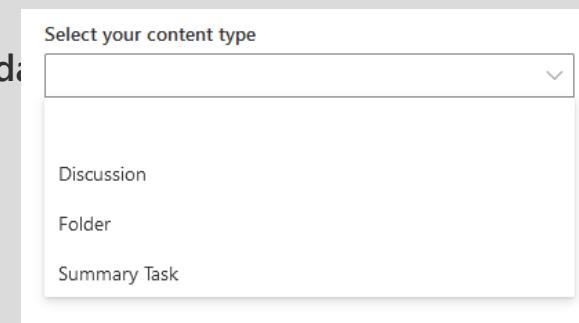
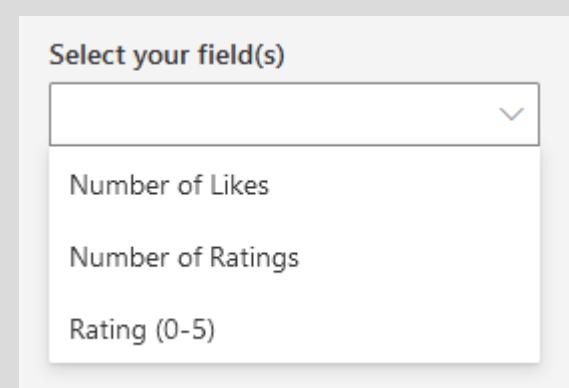
Release notes: <https://pnp.github.io/sp-dev-fx-property-controls/about/release-notes/>

Special thanks to our contributors: Carlos Marins Jr, Chad Eiserloh, Chandan Prajapati, Edin Kacic, Hilton Giesenow, Josef Benda, Nello D'Andrea, Nishkalank Bezawada, Nizar Grindi, Paolo Pialorsi, Patrik Hellgren, Peter Paul Kirschner, Victor Romanov.

### More information:

<https://sharepoint.github.io/sp-dev-fx-property-controls>  
<https://sharepoint.github.io/sp-dev-fx-controls-react>

Twitter: @M365PnPControls



# PnP Modern Search



# PnP Modern Search

<http://aka.ms/pnp-search>

## Building modern Search experiences with flexible web parts

- **v4.8.0-beta – (aiming for ESPC22 release)**
  - <https://github.com/microsoft-search/pnp-modern-search/releases>

Thank you @emilyk0520, @davemehr, @PaoloPia for your support

- Support for actionable Adaptive Cards (like in Viva)
- See release notes for fixes and new features

- **Will stop doing v3 updates as it's been about a year with Mikael caring to code on it 😊**

The screenshot shows the PnP Modern Search interface. At the top, there is a search bar with the text "74 results for '...'". Below the search bar, there are several search results cards:

- Boostez votre recherche SharePoint grâce aux Microsoft Cognitive Services!** (PDF icon) - Preview: Je suis au #MSReBUILD avec @FranckCornu #ndw @nantesfr @communautesms ... Attention, ceci est une session pour les développeurs ... Session basée sur un projet réel ... [Devis technique](#)
- A Guide to Assessing SharePoint Server Licensing** (Word icon) - Preview: This document gives Microsoft® Volume Licensing customers an overview of licensing for Microsoft SharePoint® Server 2010, SharePoint Server 2007, and SharePoint Server 2003, as ... [Plans](#)
- GS09.PPTX** (PPT icon) - Preview: Unlock creativity and empower teamwork in the modern workplace ... Corporate Vice President Office 365 Marketing ... © Microsoft Corporation. All rights reserved. MICROSOFT MAKES NO ... [Fiche d'ouverture de dossier](#)
- Get started: Office 365** (Word icon) - Preview: Microsoft Office 365 is a powerful productivity suite that includes Word, Excel, PowerPoint, OneNote, and more. It's designed to work across devices and platforms, making it easy to collaborate with others and stay organized. [Get started](#)

Below the search results, there is a "Edit results template" dialog box. It contains the following code:

```
1 <content id="template">
2   <style>
3     /* Insert your CSS overrides here */
4   </style>
5 
6   <div class="template_root">
7     {{#if showResultsCount}}
8       <div class="template_resultCount">
9         <label class="ms-fontWeight-semibold">{{getCountMessage}}</label>
10      </div>
11    {{/if}}
12    {{#if promotedResults}}
13      <ul class="template_defaultList template_promotedResults">
14        {{#each promotedResults as |promotedResult|}}
15          <li class="ms-fontWeight-semibold title">{{strings.promotedResultsTitle}}</li>
16          {{#each promotedResults as |promotedResult|}}
17            <ul>
18              <li>
19                <div>
20                  <img alt="Icon for the promoted result" />
21                </div>
22                <div>
23                  <a class="ms-font-1" href="{{Url}}>{{Title}}</a>
24                  <div class="ms-font-s">{{Description}}</div>
25                </div>
26              </li>
27            {{/each}}
28          {{/each}}
29        </ul>
30      </div>
31    {{/if}}
32    <ul class="template_defaultList">
33      {{#each items as |item|}}
34        <li class="template_listItem" tabindex="0">
35          {{item}}
36        </li>
37      {{/each}}
38    </ul>
39  </div>
40</content>
```

At the bottom of the dialog, there are "Save" and "Cancel" buttons.

# PnP SPFx Samples

**PnP  
SAMPLES**



# PnP SPFx Samples

- **PnPs React Hooks**  
Beau Cameron | @beau\_cameron
- **Add form customizer to list**  
Siddharth Vaghisia | @siddh\_me
- **Rhythm of Business Calendar**  
Dan Turley
- **Feedback Sidebar Web Part**  
Alessia De Martino, Andrea Bellini, Matteo Serpi & Michele Catena
- **Find time and Planner experiences**  
Christophe Humbert | @Path2SharePoint
- **Consume Azure Function app**  
Joao Livio | @jlivio
- **Display Sharepoint data as ERD**  
Niklas Wilhelm | @NiklasWilhelm4
- **Zod Usage in SPFx solutions**  
Ari Gunawan | @arigunawan3023
- **CSV Importer**  
Michał Romiszewski | @romiszewski
- **Graph auto batching**  
Marcin Wojciechowski | @mgwojciech
- **Image generation using DALL-E API**  
Luis Mañez | @luismanez
- **Using KIOTA SDK with SPFx solutions**  
Luis Mañez | @luismanez

- **Associated Sites Links**  
Ari Gunawan | @arigunawan3023
- **Flight Tracker**  
João Mendes | @joaojmendes
- **On behalf Azure AD flow with SPFx**  
Paolo Pialorsi | @paolopia

The collage includes:

- A screenshot of the "Rhythm of Business Calendar" showing a calendar view with event details and a sidebar.
- A screenshot of the "Feedback Sidebar Web Part" showing a feedback form and a comment section.
- A screenshot of the "Find time and Planner experiences" feature showing flight arrival and departure information.
- A screenshot of the "Consume Azure Function app" showing a list of customer data.
- A screenshot of the "Display Sharepoint data as ERD" showing a complex Entity Relationship Diagram (ERD) for SharePoint data.
- A screenshot of the "Zod Usage in SPFx solutions" showing a landing page with a CSV importer tool.
- A screenshot of the "CSV Importer" showing a CSV file import interface.
- A screenshot of the "Graph auto batching" showing a graph visualization of data relationships.
- A screenshot of the "Image generation using DALL-E API" showing a generated image of a red car.
- A screenshot of the "Using KIOTA SDK with SPFx solutions" showing a news ticker and list form components.

See all samples from <https://aka.ms/m365/samples>

<https://aka.ms/spfx-webparts>



# PnP SPFx Extensions

See all samples from  
<https://aka.ms/m365/samples>

- **Custom Message Banner for Modern SharePoint Sites**

Brad Schlintz | @bschlitz

Paul Matthews | @cann0nf0dder

- **Share List, Folder or File to Teams**

Russell Gove | @russgove

- **Field Votes**

Ari Gunawan | @arigunawan3023

- **My Followed Sites Application Customizer**

Rahul Suryawanshi |

The image contains two screenshots of SharePoint modern pages. The top screenshot shows a 'SPFx Message Banner Dev' page with a red banner at the top stating 'This site has been archived. Please update your bookmarks and use the new site located [here](#). Thanks!'. Below the banner is a 'Votes' component showing three items: '2 Vote', '1 Voted', and '1 Vote'. To the right is a 'Sharing list Documents to Teams' dialog box. The bottom screenshot shows a 'LearningCenter' page with a 'Hub Clock' and 'Weather' card, and a 'My Followed Sites' application customizer sidebar.

<https://aka.ms/spfx-extensions>



# PnP SPFx ACEs

- **Share Graph Client between ACEs**  
Marcin Wojciechowski | @mgwojciech
- **Stock / Bitcoin feed**  
Kunj Sangani | @sanganikunj
- **Flight Tracker**  
João Mendes | @joaojmendes
- **Dynamic SVG image charts**  
Patrick Rodgers | @mediocrebowler
- **Multi-tenant ISV reference solution**  
Paolo Pialorsi | @paolopia

The image displays three screenshots of SharePoint modern pages showcasing various PnP SPFx ACEs:

- Flight Tracker ACE:** A card-based view for flight AEA1141. It shows the flight number (AEA1141), airline (Air Europa), and status (EN ROUTE). It includes departure and arrival times, locations (Madrid-Barajas to Porto, Francisco de Sá Carneiro), and a small airplane icon.
- Stock / Bitcoin feed ACE:** A card showing the current price of Bitcoin on Binance Exchange. The price is listed as \$ 21630.23.
- Dynamic SVG image charts ACE:** A chart titled "Qualified Pipeline By Recommendation" showing four bars representing different pipeline categories: Committed At Risk, Committed, Uncommitted, and Uncommitted Upside. The chart includes numerical values: \$50M, \$70M, \$48M, and \$46M respectively.

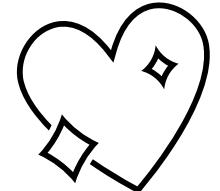
<https://aka.ms/spfx-aces>

See all samples from  
<https://aka.ms/m365/samples>

# 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 grant us permission to share your picture in social media.*

A photograph showing three people in an office setting. A woman in a grey sweatshirt and light-colored pants is pointing at a whiteboard with her right hand. A man in a black t-shirt and blue jeans stands to her left, looking at the board. Another person, partially visible behind her, is also looking at the board. The whiteboard has some handwritten text and diagrams. In the foreground, there's a wooden desk with a small decorative object on it.

# DEMO

- **Add form customizers to list web part**
  - Siddharth Vagharia (Tata Consulting)
- **Using Fluent UI 9 in SPFx solutions**
  - Nick Brown (Jisc)
- **Visualizing dynamically SharePoint data within SPFx solutions using ERD model**
  - Niklas Wilhelm (NetForce 365)

# 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 Viva Connections & SPFx call: **December 1<sup>st</sup> at 07:00am PT**

Next M365 & Power Platform call: **November 24<sup>th</sup> at 07:00am PT**

All available community calls from <https://aka.ms/m365/calls>

