



# On-Prem or Online: SharePoint custom list formatting will make you a star!

**Don Kirkham, Microsoft MVP, MCT**

**THRIVECONF.COM**  
**#ThriveITConf**

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# @DonKirkham

## Microsoft MVP, M365 Development

DMI  Enterprise Architect

 <https://donkirkham.com>

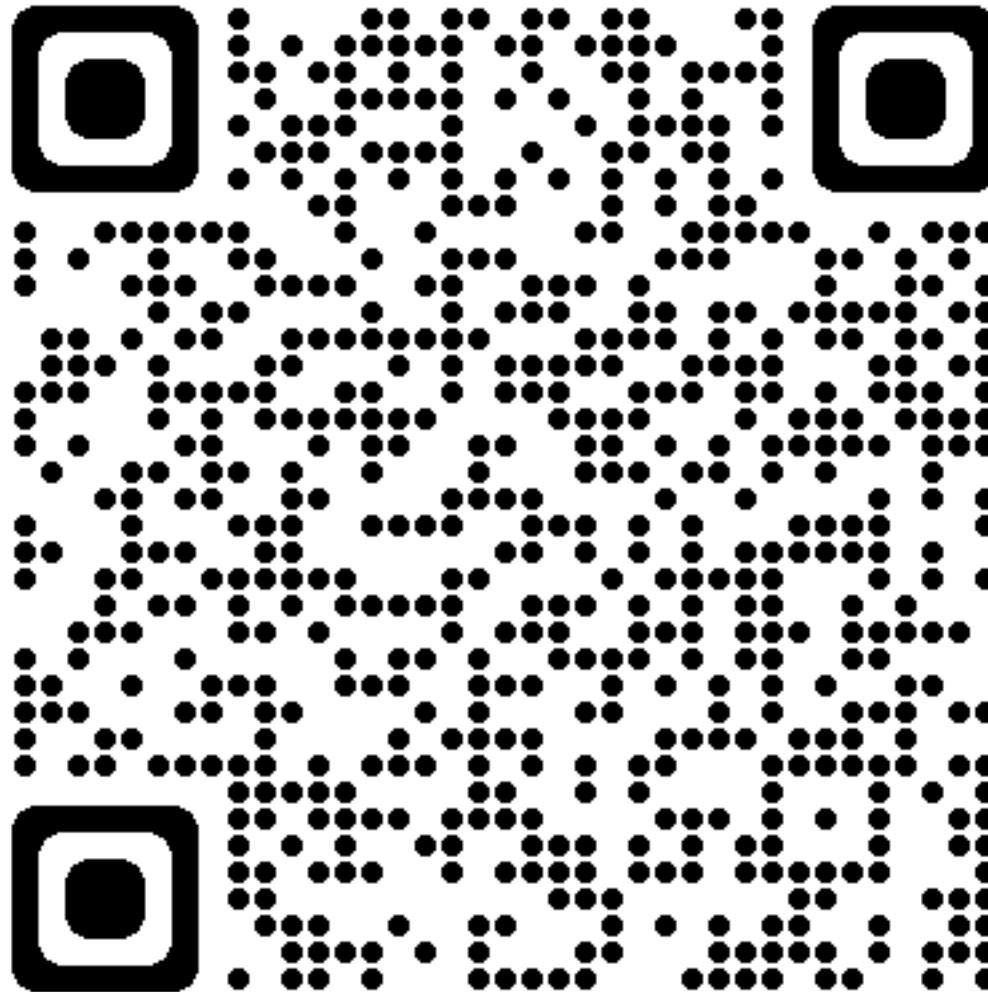
 @DonKirkham

 /in/DonKirkham

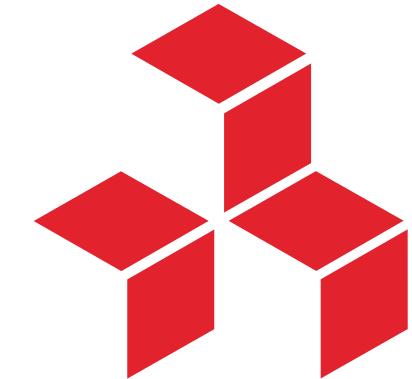
 DonKirkham



10



**DMI**



DIGITAL AT THE EDGE.  
**HUMAN AT THE CORE.**

<https://dminc.com>

# Picture time!!!

# AGENDA



# LIST FORMATTING

## Columns | Views | Forms



# CODE PORTION OF “LOW CODE”

## JSON | Operators | Advanced



# RESOURCES

Samples | Guidance | Tools





# List Formatting

Column Formatting  
View Formatting  
List Form Formatting

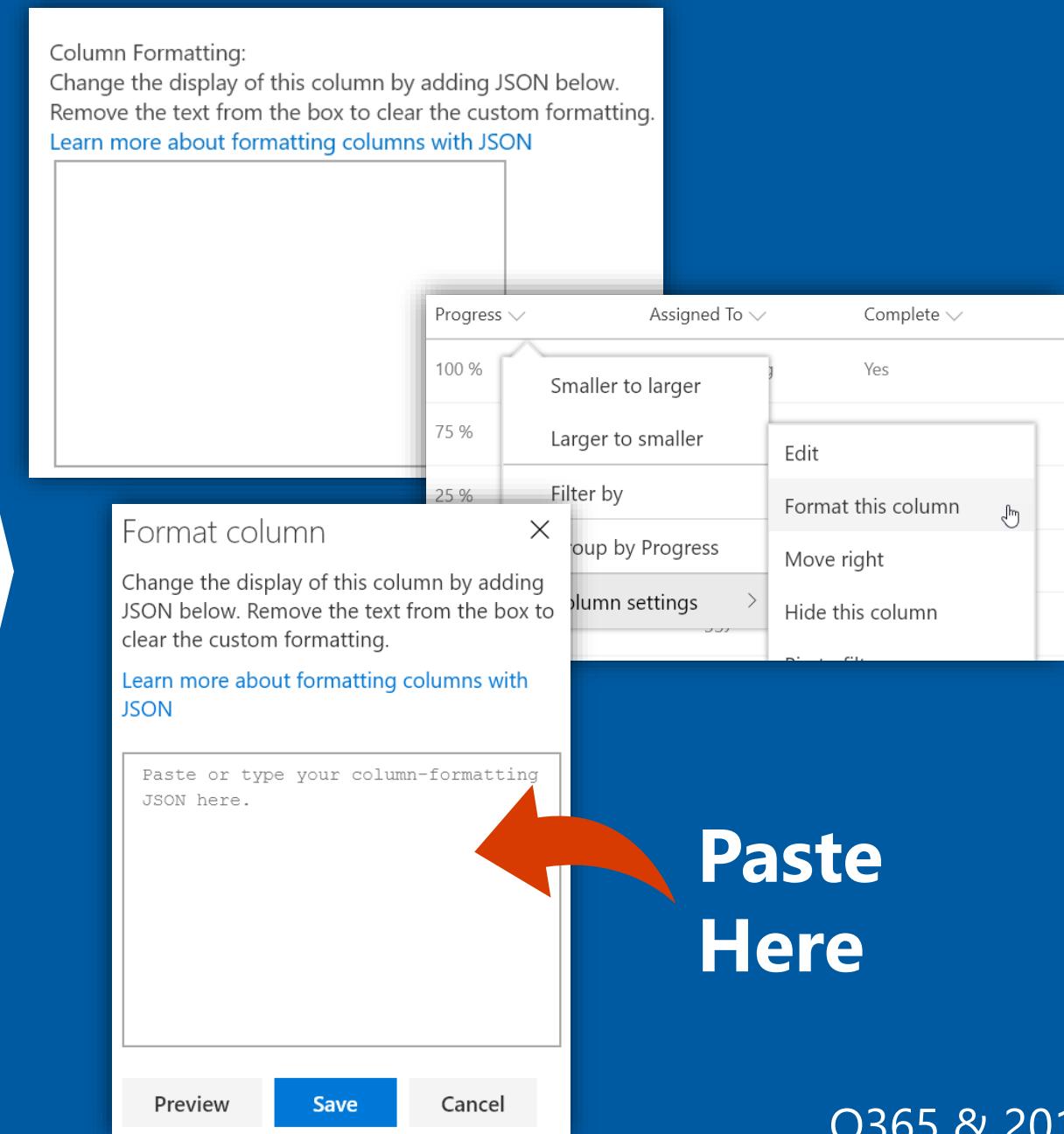
Declarative  
modern listview  
customization

Available in

- SharePoint Online
- SharePoint Subscription Edition
- SharePoint 2019

# Column Formatting

- JavaScript Object Notation (JSON)
- Apply directly to list fields or site columns
  - Field Settings
  - Format this column menu
- Stored with the **Field**



Paste  
Here

O365 & 2019

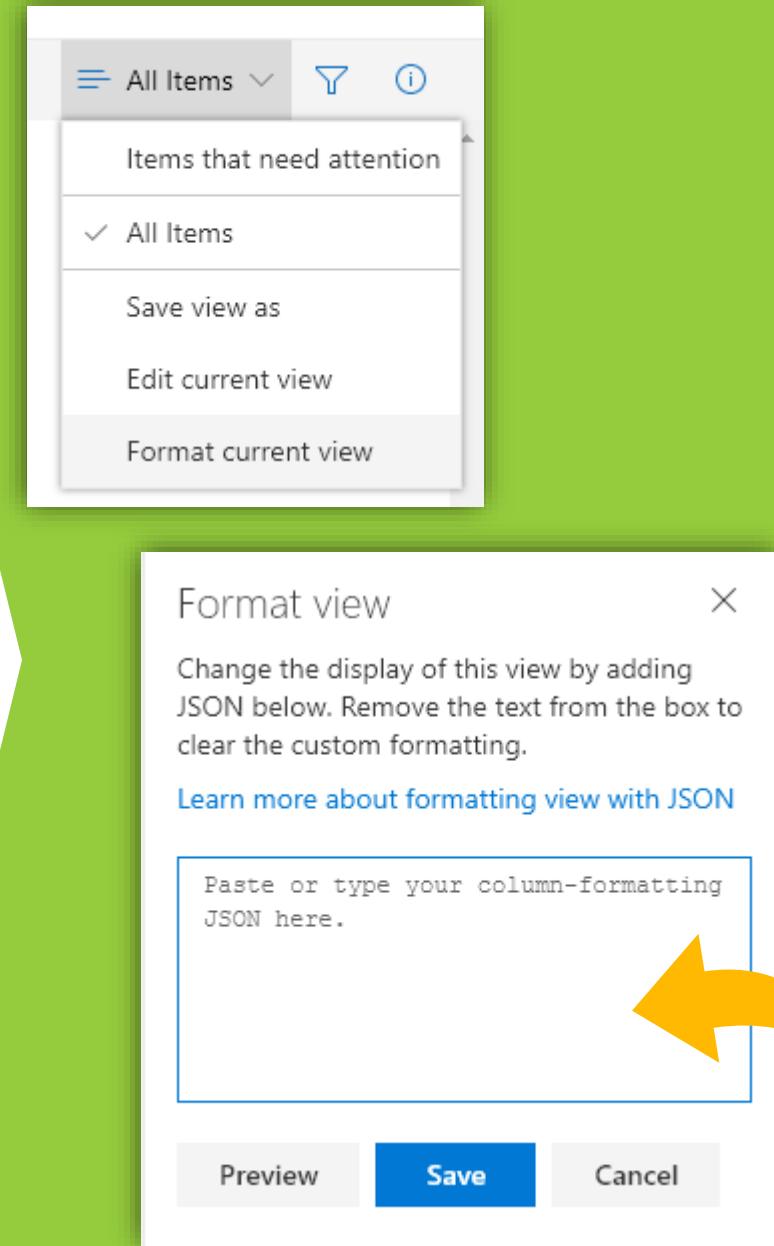


[aka.ms/m365pnp](http://aka.ms/m365pnp)

[aka.ms/List-Formatting](http://aka.ms>List-Formatting)

# View Formatting

- **Superset** of Column Formatting
- Apply directly to views
  - Format current view menu
- Stored with the **View**
- Overrides Column Formats (**Row Formats**)

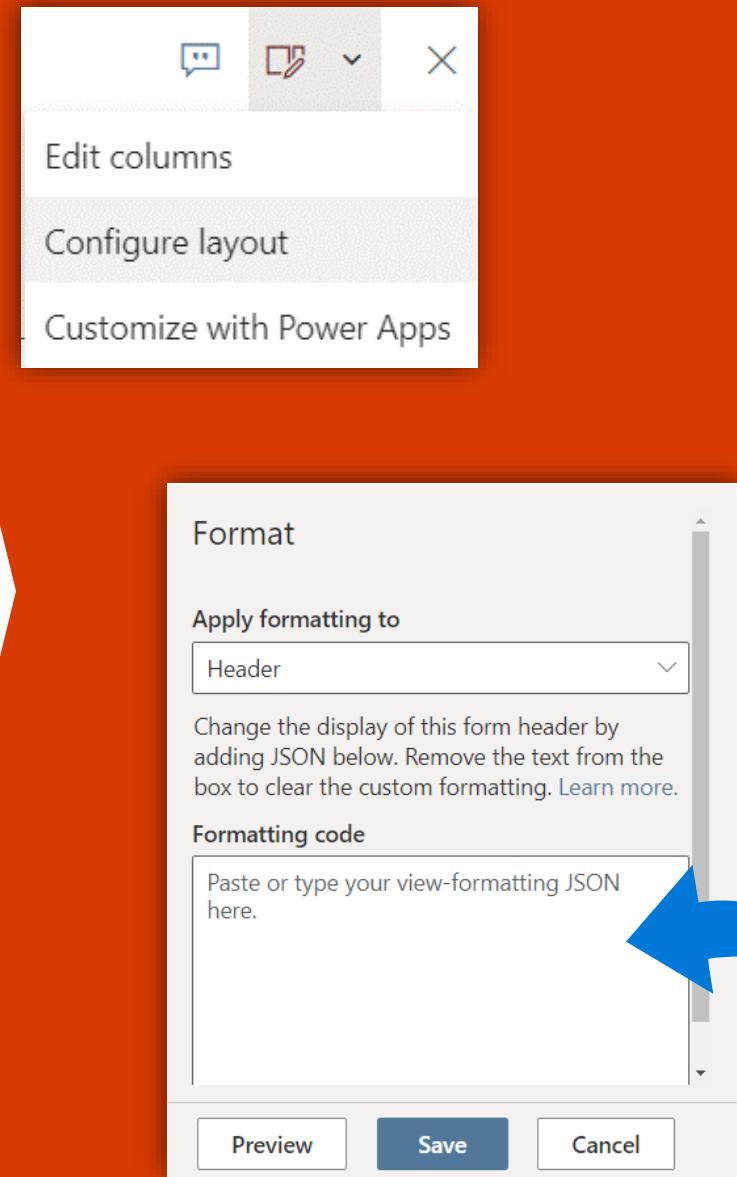


Paste  
Here



# Form Formatting

- Header & Footer
  - Superset of Column Formatting
- Body
  - JSON, but NOT Formatting
- Stored with the **List**



Paste  
Here

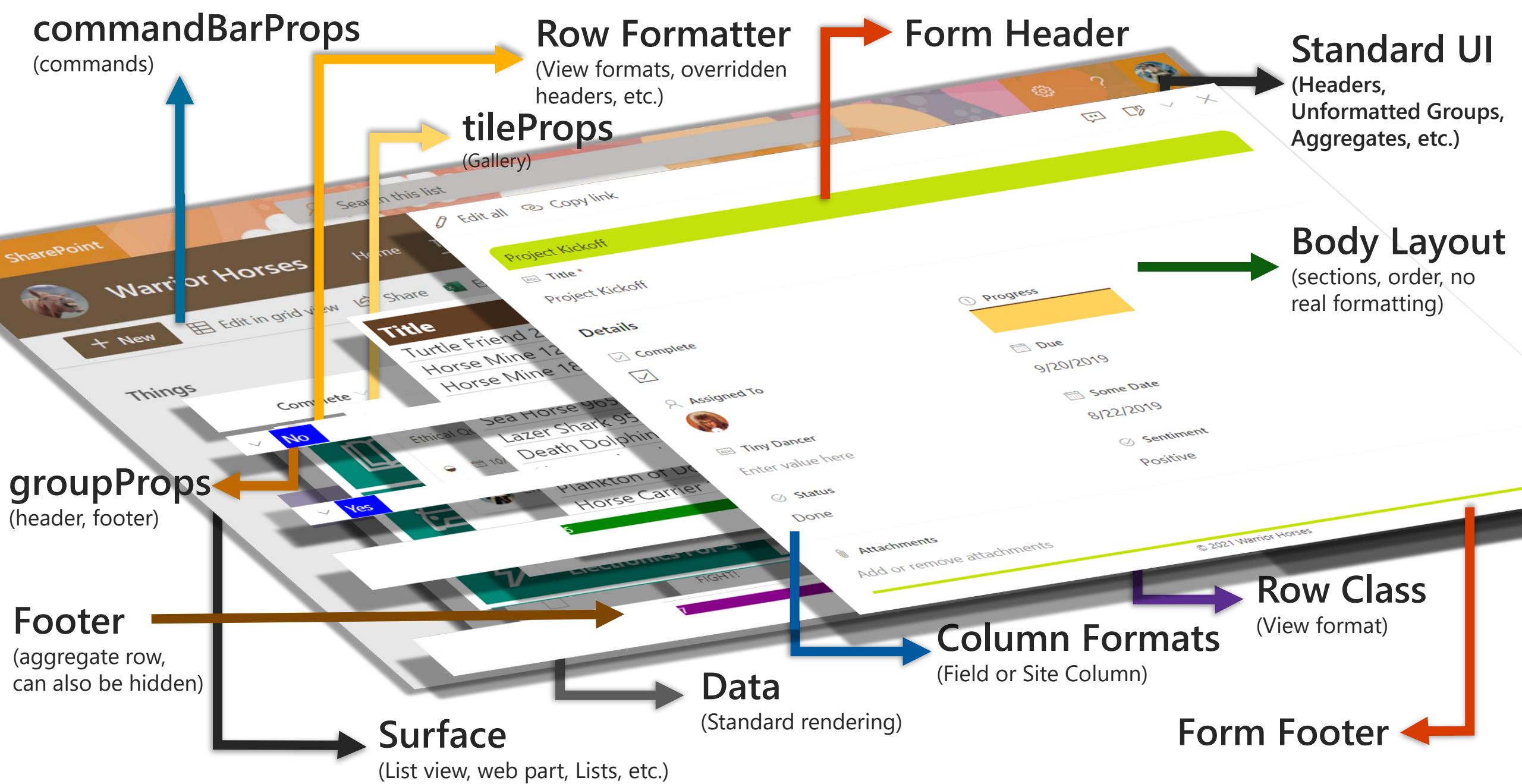
# List Formatting Samples

- 200+ Sample Formats
- Instructions & Screenshots
- Copy & Paste directly from GitHub

The collage includes:

- A ribbon-like emoji bar with a cursor hovering over it, showing counts for smiley faces, clapping hands, and coffee cups.
- A map of the United States where states are colored differently (e.g., California is teal).
- A table with columns: Severity (Done, In progress, In review, Has issues, Blocked), Percent (Normal Color) (90%, 70%, 50%, 30%, 20%, 10%), MyField (with user avatars and @mentions), Chart (a bar chart), Phone Number (with international dialing codes and Google Maps for Indianapolis, Knoxville, Tokyo, Norway, and Pittsburgh), Progression (checkmarks and circles), Progress (gauge charts for dates Aug 1, 2, and 3), and Date1 (calendar cards for 2021 Sunday Aug 1, 2021 Monday Aug 2, and 2021 Tuesday Aug 3).
- A large red text at the bottom center: *aka.ms/List-Formatting*

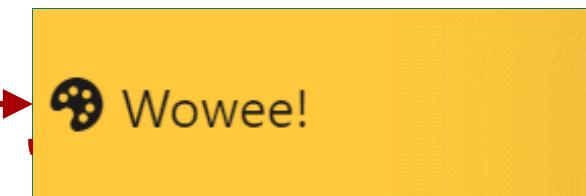




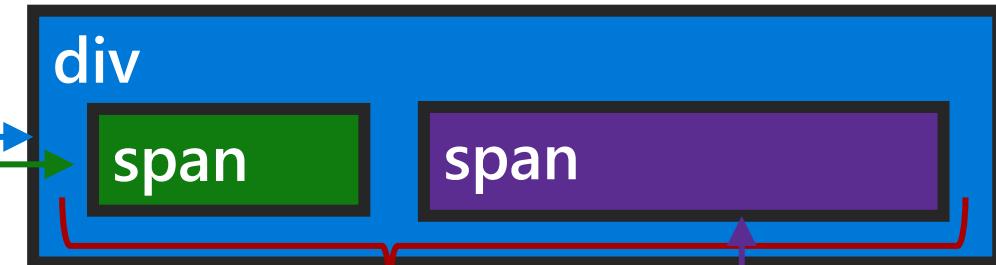
# Format JSON

```
{  
  "$schema": "https://developer.microsoft.com/json-schemas/  
  "elmType": "div",  
  "attributes": {  
    "class": "ms-bgColor-themePrimary ms-fontColor-white"  
  },  
  "children": [  
    {  
      "elmType": "span",  
      "attributes": {  
        "iconName": "ColorSolid"  
      },  
      "style": {  
        "padding-left": "4px"  
      }  
    },  
    {  
      "elmType": "span",  
      "txtContent": "@currentField",  
      "style": {  
        "padding-left": "4px"  
      }  
    }  
  ]  
}
```

# Rendered Column



## Element Visualization



## Generated HTML

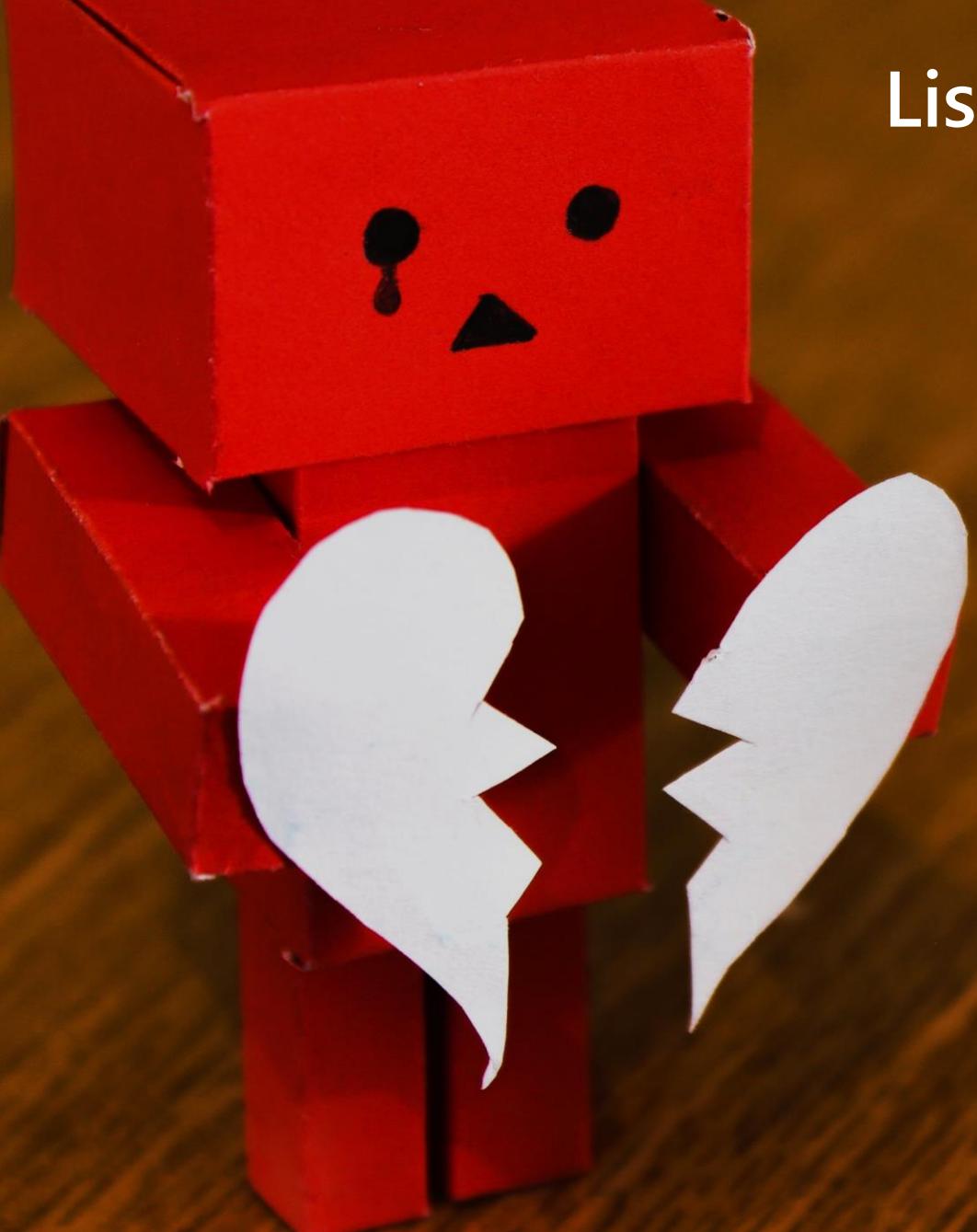
```
<div class="sp-field-customFormatter ms-bgColor-themePrimary ms-fontColor-white">  
  <span style="padding-left:4px;" iconname="ColorSolid" class="css-489"></span>  
  <span style="padding-left:4px;">Wowee!</span>  
</div>
```



# DEMO TIME!

Put on your dancing shoes and let's have some fun!



A photograph of a simple red paper robot standing on a wooden surface. The robot has a rectangular head with two black pom-pom eyes and a small black triangle mouth. It has a single arm extending from its left side, holding a large white heart that is split vertically down the middle. The robot's body is made of red paper with visible fold lines.

# List Formatting Limitations

- Date Parts operators, but no Time Parts
- Unable to use parenthesis in style props (except for rgba)
  - No Gradients
  - No image backgrounds
- Schema discrepancies
- Localization is tough
- Form Formatting doesn't use Monaco Editor
- Form Formatting doesn't follow the same rules
- Body Layout has no real formatting options

# List Formatting Awesomeness



- Quick & “easy” visualizations that can have a significant impact
- Site Column integration
- Can be applied by Site Designers
- Supported in Site Templates & Remote Provisioning
- Great performance
- Getting better all the time
- **NO Solution Package deployment required**

# Final Tips & Tricks

- Start with the Samples
- Customize the Wizard output
- 2000+ icons – use them!
- Slap some Emojis in there
- Customize the Command Bar
- Use the web part
- Test in multiple themes





DON'T  
FEAR  
JSON!



[aka.ms/m365pnp](http://aka.ms/m365pnp)

[aka.ms/List-Formatting](http://aka.ms>List-Formatting)

# MICROSOFT 365 & POWER PLATFORM COMMUNITY

Learn from others how to  
build apps on Microsoft  
365 & Power Platform.  
Don't reinvent the wheel.  
Focus on what truly  
matters for your  
organization.

Sharing is Caring!

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

# References

- List formatting Samples:  
[aka.ms/list-formatting](https://aka.ms/list-formatting)
- Microsoft Docs:  
<https://learn.microsoft.com/en-us/sharepoint/dev/declarative-customization/column-formatting>
- M365 Modern classes:  
<https://zerg00s.github.io/sp-modern-classes>
- Flicon:  
[flicon.io](https://flicon.io)
- HTML To JSON:  
<https://pnp.github.io/List-Formatting/tools/html-formatter-generator/>
- SP Formatter Plugin:  
<https://github.com/pnp/sp-formatter>
- Enhanced List Formatting Webpart:  
<https://github.com/pnp/sp-dev-fx-webparts/tree/main/samples/react-enhanced-list-formatting>
- jsonify:  
<https://github.com/thechriskent/jsonify>

# Thank you

We greatly value your input. Please take a moment to complete our survey, accessible either through the Run.events app or by the link below:

<https://bit.ly/Thrive24Survey>

