

# PnP Community Sample

## Convert data into graphical information

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PnP Samples



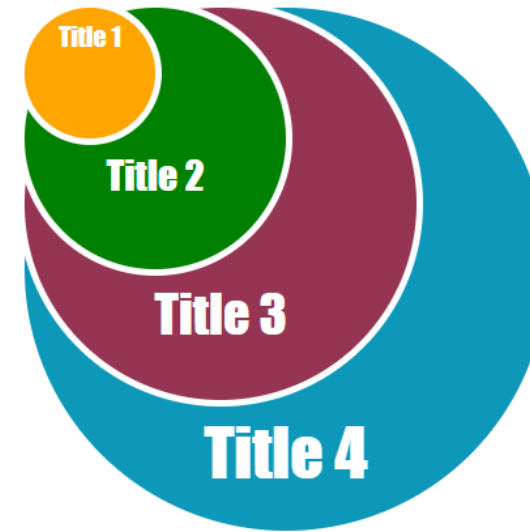
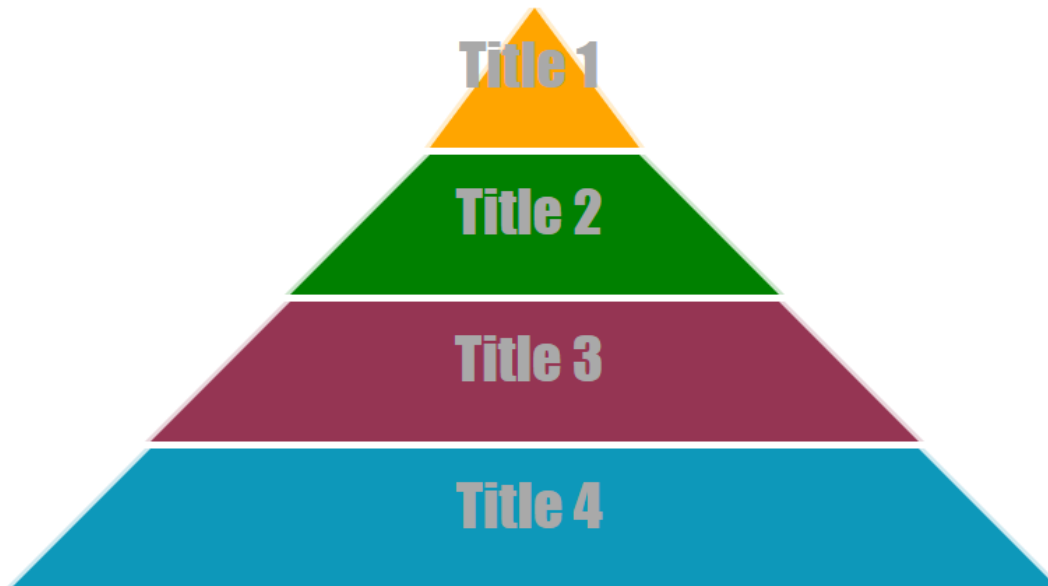
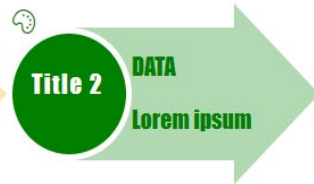
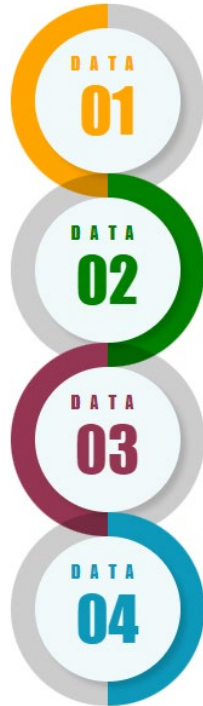
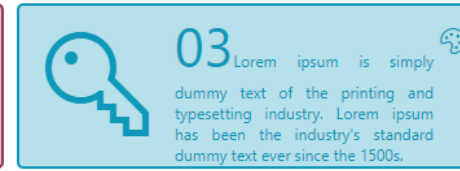
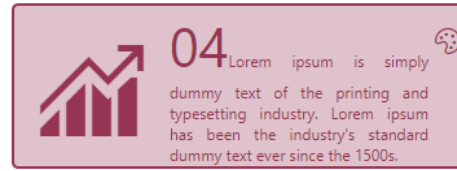
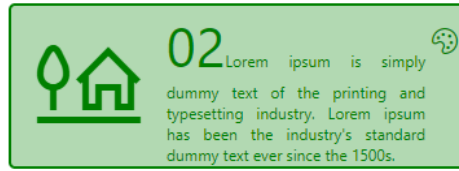
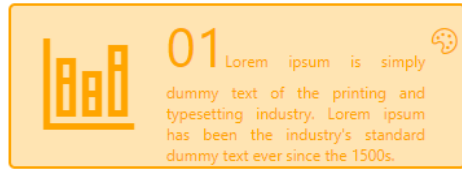
André Lage

Twitter: @aaclage

GitHub: <https://github.com/aaclage>



# List Formatting – Info Chart Samples

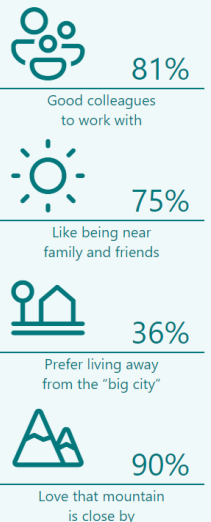


Good afternoon,



Why current work location:

Responses: [See all](#)



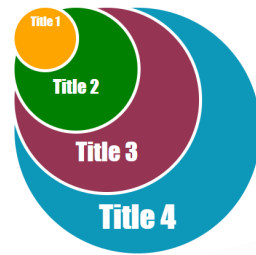
# Analyze InfoChart design



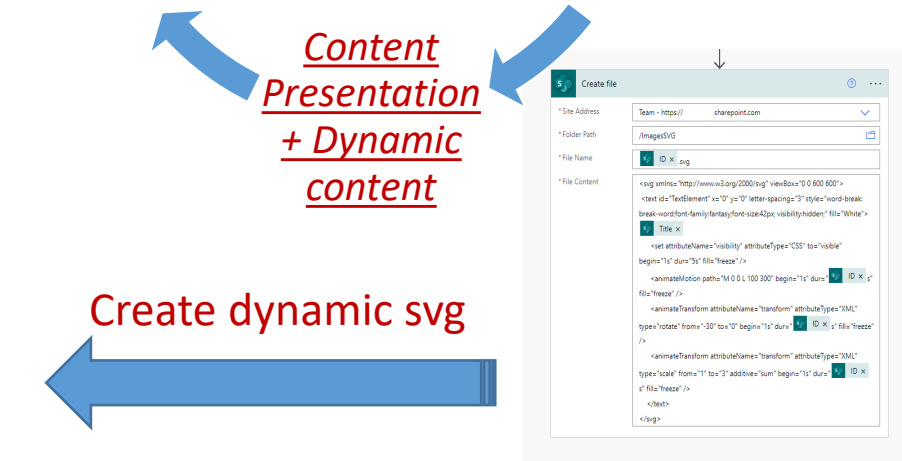
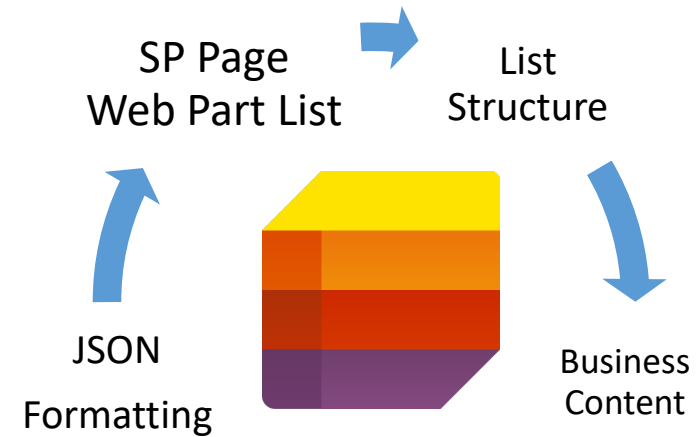
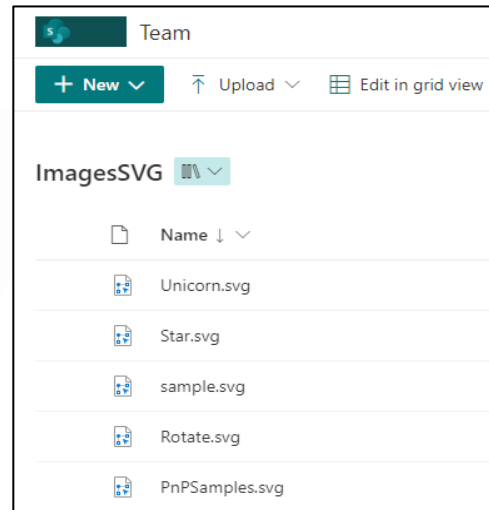
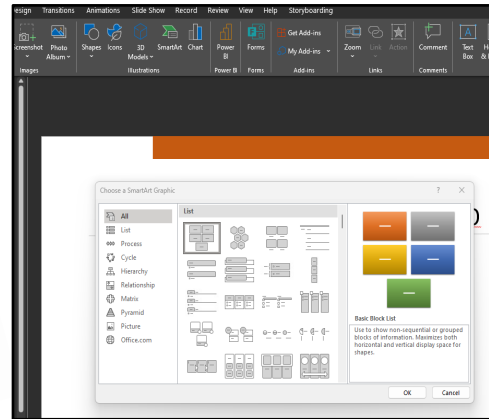
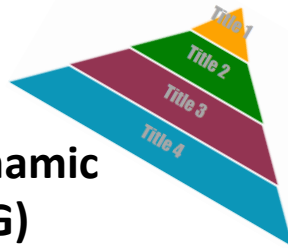
- Improve comprehension
- Highlight key information
- Increase engagement
- Simplify data analysis
- Enhance the overall design
- Combine Graphic with dynamic (Data + HTML/CSS + SVG)




Information Content Circular Shape

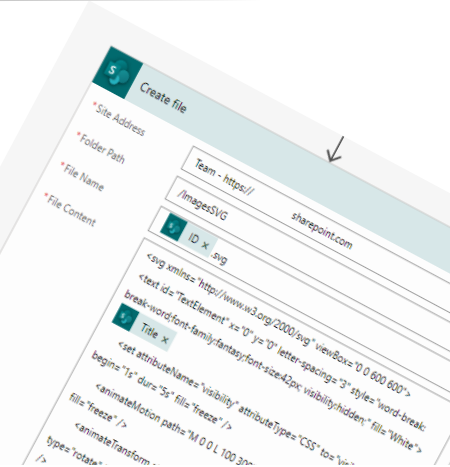


Good afternoon,

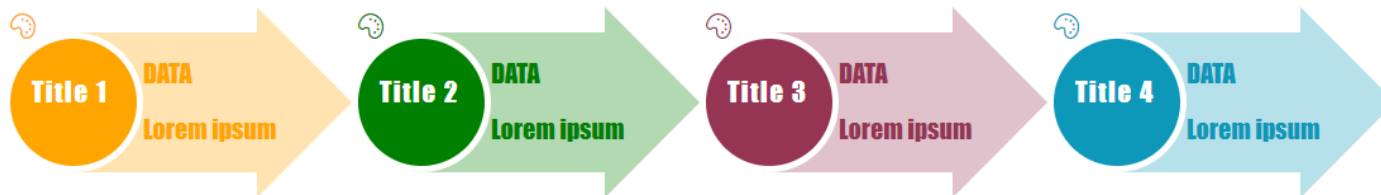


# List Formatting – Process arrow

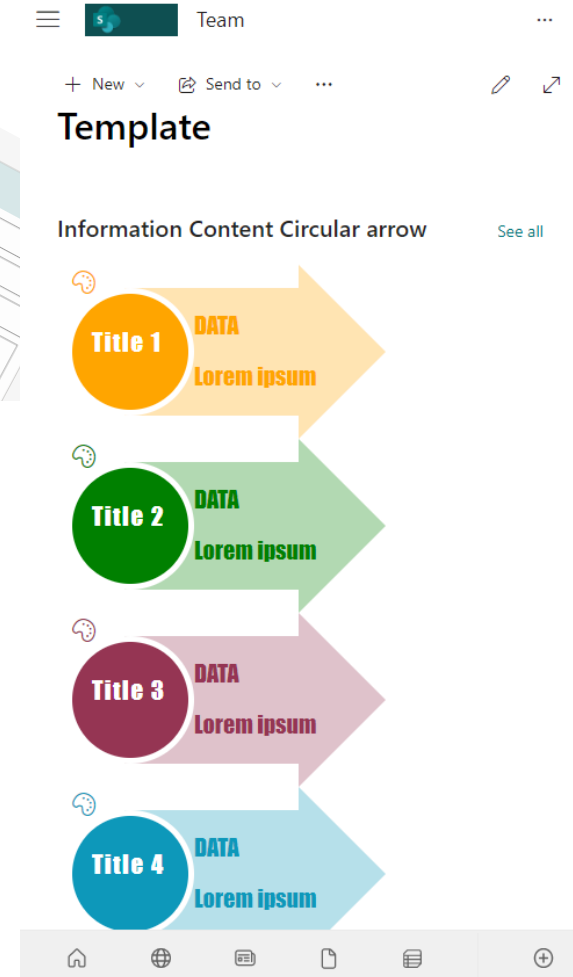
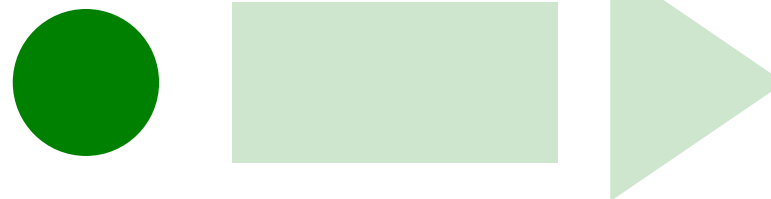
- **Info Visualization using process arrow steps**
- Usage of RGBA for transparency
- Usage of Geometrical shapes
  - Circle, Rectangle, Triangle
  - Include dynamic content (svg)
-  Powerautomate (Create file function)
- Adapt look and feel to fit mobile view



Information Content Circular arrow

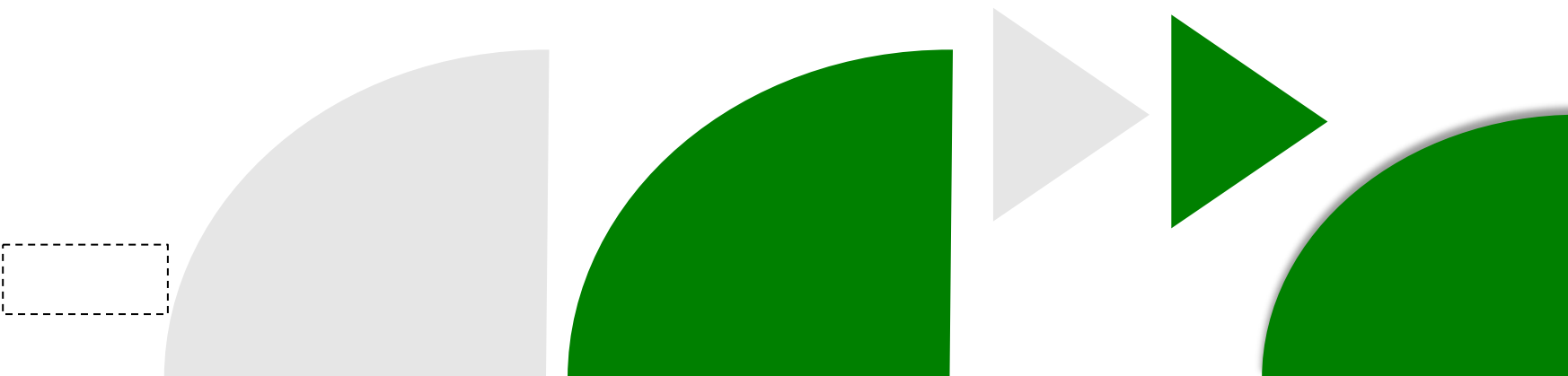
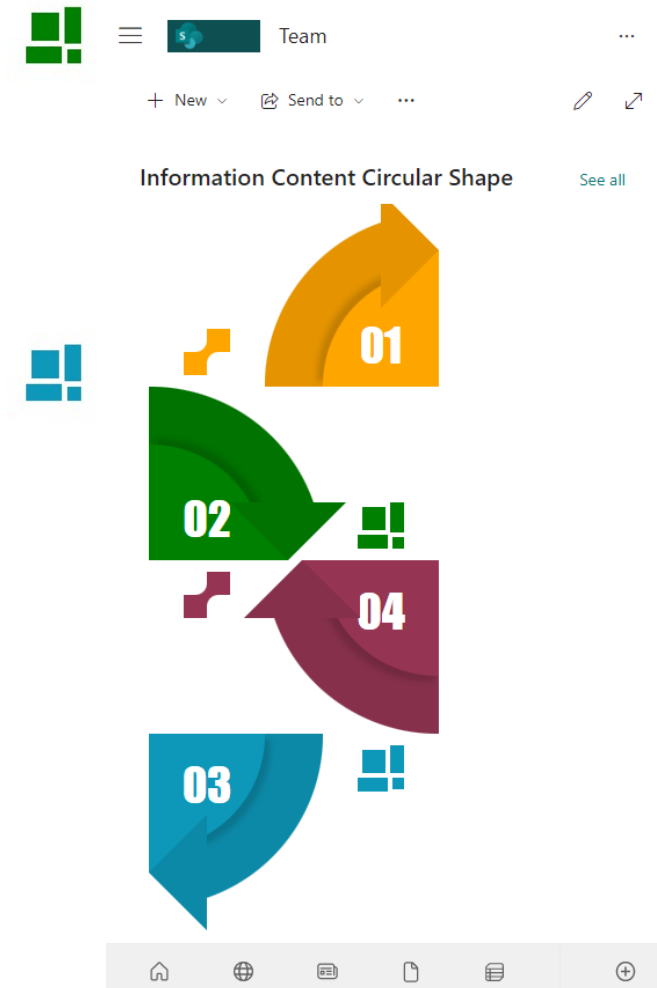


Sample



# List Formatting – Life Cycle

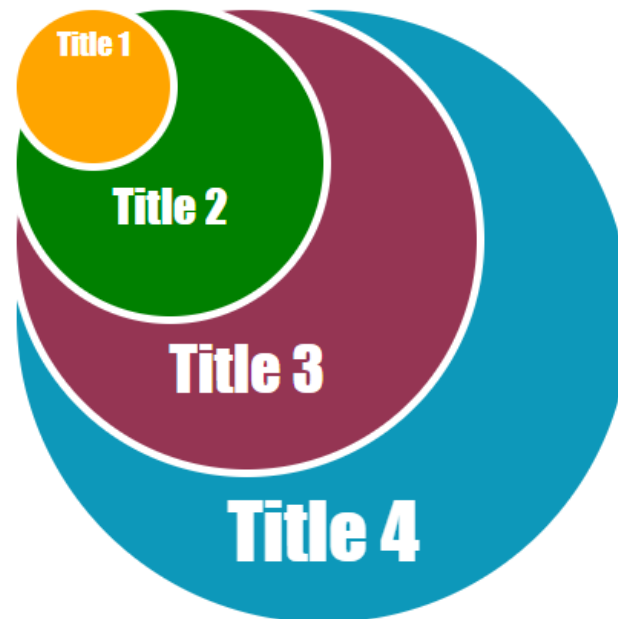
- **Visualize circulated Info using arrow**
- 4 items block for each circle
- Usage of RGBA for transparency
- Usage of shadow and circle using CSS  
"border-radius", "box-shadow"
- Usage of geometrical shapes using CSS  
"border-right", "border-left", "border-top", "border-bottom"
- Adapt look and feel to fit mobile view



# List Formatting – Content circular

- Content visualization
- Usage of Geometrical shapes
  - Circles
- Calculate size of circle based of  $(@rowIndex + 1) + '00px'$
- Manage **z-index to overlay**  $(1000 - @rowIndex) + \text{margin-left to fit}$ .

Information Content Circular Shape



## Format view

Format view    Format columns

Choose layout

List

Change the display of this view by adding JSON below. Remove the text from the box to custom formatting. [Learn more](#)

```
1 {
2   "$schema": "https://developer.microsoft.com/json-schemas/sp/
3     v2/row-formatting.schema.json",
4   "hideColumnHeader": true,
5   "hideSelection": true,
6   "rowFormatter": {
7     "elmType": "div",
8     "style": {
9       "float": "left"
10    },
11    "children": [
12      {
13        "elmType": "div",
14        "style": {
15          "cursor": "pointer",
16          "width": "=(@rowIndex+1)+'00px'",
17          "height": "=(@rowIndex+1)+'00px'",
18          "border": "5px solid white",
19          "border-radius": "50%",
20          "background-color": "=[${ColorP}+1]'",
21          "margin-left": "=[if(@rowIndex == 0, '', '-'+
22            (@rowIndex)+'10px')]",
23          "z-index": "=[1000 - @rowIndex]"
24        },
25        "customCardProps": {
26          "openOnEvent": "click",
27          "beakStyle": {
28            "background-color": "Gray"
29          }
30        }
31      }
32    ]
33  }
```

[See all](#)

# List Formatting – Content pyramid

- Content visualization
- Usage of Geometrical shapes
  - Triangle, trapezoid
- Calculate size of trapezoid based of `@rowIndex (4)`
  - **Resize to fit mobile view (challenge on CSS)**
- Or dynamically generate svg to fit mobile view
  - ▶ Powerautomate (Create file)



## Format view

Format view Format columns

## Choose layout

List

Change the display of this view by adding JSON below. Remove the text from the box to clear custom formatting. [Learn more](#)

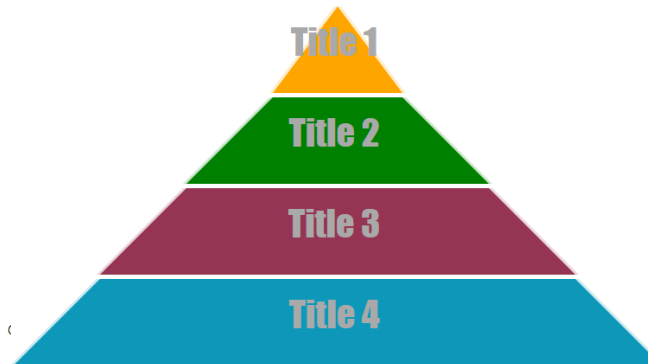
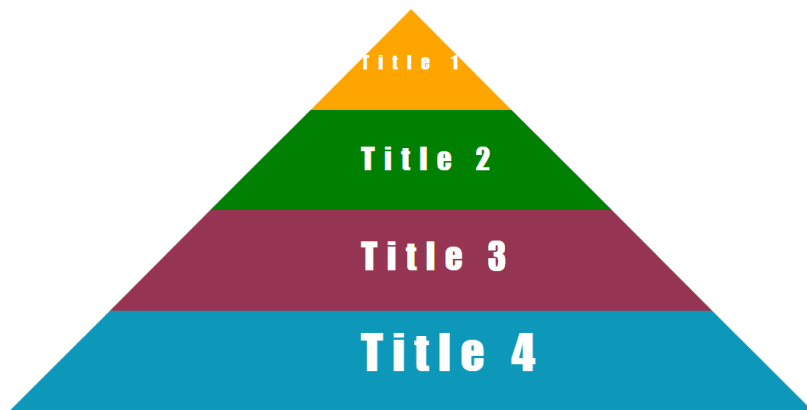
```
20
21
22
23
24
25
26
27
28
"color": "=[${ColorP}+'0.2')",
"position": "absolute",
"left": "=if(@rowIndex % 4==0,'300px',if
(@rowIndex % 4==1,'200px',if(@rowIndex % 4==2,
'100px',if(@rowIndex % 4==3,'0px',''))))",
"width": "=if(@rowIndex % 4==0,'8px',if(@rowIndex
% 4==1,'158px',if(@rowIndex % 4==2,'358px',if
(@rowIndex % 4==3,'558px',''))))",
"height": "0px",
"border-left": "=if(@rowIndex % 4==0,'75px solid
transparent',if(@rowIndex % 4==1,'100px solid
transparent',if(@rowIndex % 4==2,'100px solid
transparent',if(@rowIndex % 4==3,'100px solid
transparent',''))))",
"border-right": "=if(@rowIndex % 4==0,'75px solid
transparent',if(@rowIndex % 4==1,'100px solid
transparent',if(@rowIndex % 4==2,'100px solid
transparent',if(@rowIndex % 4==3,'100px solid
transparent',''))))",
"border-bottom": "=if(@rowIndex % 4==0,'100px
solid '+[${ColorP}+'0.2')',if(@rowIndex % 4==1,
'100px solid '+[${ColorP}+'0.2')',if(@rowIndex %
4==2,'100px solid '+[${ColorP}+'0.2')',if
(@rowIndex % 4==3,'100px solid '+[${ColorP}+'0.2')
',''))))",
"box-shadow": "rgba(50, 50, 93, 0.25) 0px 30px
60px 42px transparent, rgba(0, 0, 0, 0.3) 0px 18px
0px 6px transparent"
```

Switch to design mode

This formatting JSON will be discarded

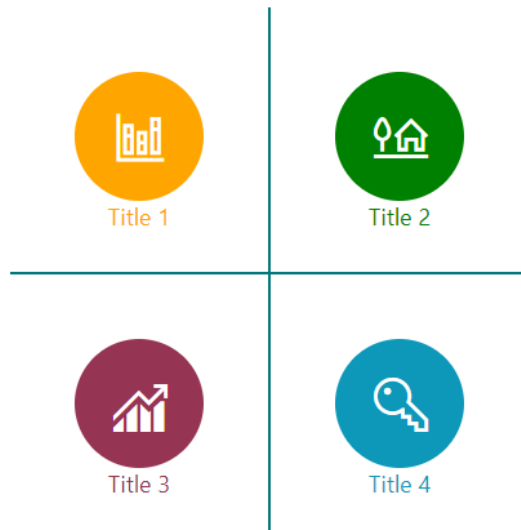
Information Content Circular Shape

See all



# List Formatting – Matrix

- Matrix view of content
- 4 items block for each Axis
- Usage of Geometrical shapes
  - Rectangle “border style managed”
    - function MOD(%)
    - @rowIndex
- Adapt look and feel to fit mobile view



Team

+ New ▾ Send to ▾ Promote Translate

See all

### Infographics Template Matrix

Format view

Format view Format columns

Choose layout

List

Change the display of this view by adding JSON below. Remove the text from the box to clear custom formatting. [Learn more](#)

```
10  {
11    "children": [
12      {
13        "elmType": "div",
14        "style": {
15          "height": "if(@rowIndex % 4==0, '205px', if(@rowIndex
16            % 4==1, '205px', '200px'))",
17          "width": "200px",
18          "border-top": "if(@rowIndex % 4==2, '2px solid', if
19            (@rowIndex % 4==3, '2px solid', ''))",
20          "border-bottom": "if(@rowIndex % 4==0, '2px solid', if
21            (@rowIndex % 4==1, '2px solid', ''))",
22          "border-left": "if(@rowIndex % 4==1, '2px solid', if
23            (@rowIndex % 4==3, '2px solid', ''))",
24          "border-right": "if(@rowIndex % 4==0, '2px solid', if
25            (@rowIndex % 4==2, '2px solid', ''))",
26          "margin-top": "if(@rowIndex % 4==2, '-2px', if
27            (@rowIndex % 4==3, '-2px', ''))"
28        },
29        "attributes": {
30          "class": "ms-fontColor-themePrimary
31            ms-fontColor-themeTertiary--hover"
32        },
33        "children": [
34          {
35            "elmType": "div",
36            "style": {
```

Switch to design mode

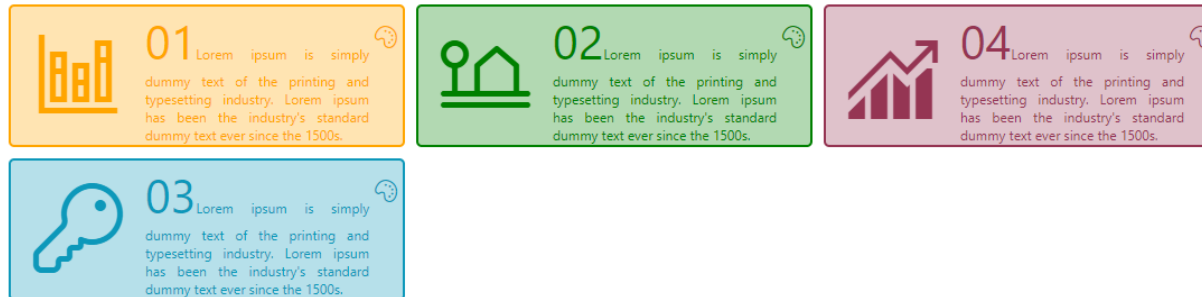
This formatting JSON will be discarded



# List Formatting – Content Box

- Display content using Icon, justify, border
- Select Color using picker
- Usage of RGBA for transparency
  - String calculation = `'RGBA(0,0,0,'+0.2)'`
- Adapt to fit mobile view

## Information Content



Team

+ New Send to

Information Content See all

See all

Circle process See all

Format view

Format view Format columns

Choose layout

List

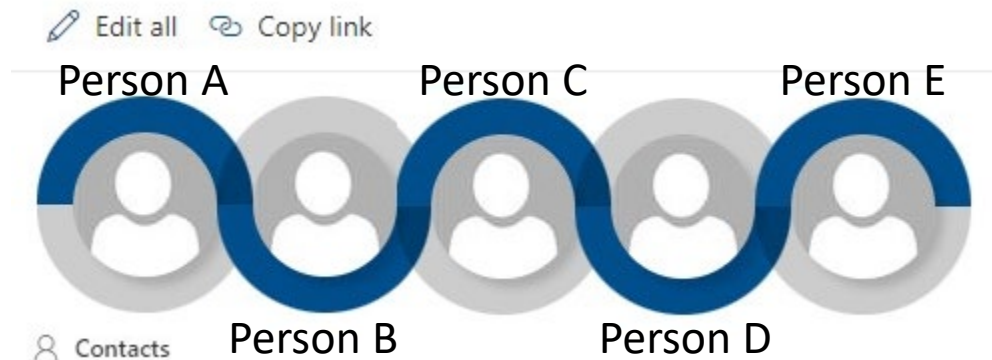
Change the display of this view by adding JSON below. Remove the text from the custom formatting. [Learn more](#)

```
35
36
37
38 {
39   "elType": "div",
40   "style": {
41     "width": "200px",
42     "text-align": "justify",
43     "text-justify": "inter-word"
44   },
45   "children": [
46     {
47       "elType": "span",
48       "style": {
49         "text-align": "center",
50         "font-size": "42px",
51         "color": "=[ColorP]+1'"
52       },
53       "txtContent": "=[Position]",
54       "inlineEditField": "=[Position]"
55     },
56     {
57       "elType": "span",
58       "style": {
59         "max-width": "100px",
60         "color": "=[ColorP]+1'"
61       },
62       "txtContent": "=[Description]"
63     }
64   ]
65 }
```

Switch to design mode

# List Formatting – Timelapse

- Timelapse view of content
- Usage of RGBA for transparency and color transition.
- Usage of Form List formatting integrated with List “**Person**” field
  - `forEach, loopIndex`
  - `@rowIndex % 2` to know position for color/name  
0 – Left/Top, 1 – Right/Down
- Adapt to fit mobile view



<https://github.com/pnp/List-Formatting/tree/master/form-samples/person-circle-header>



Format view

[Format view](#)      [Format columns](#)

Choose layout

List

Change the display of this view by adding JSON below. Remove the text from the box to custom formatting. [Learn more](#)

```


18      ert : Sepx
19    },
20    "children": [
21      {
22        "elmType": "div",
23        "style": {
24          "border-top-left-radius": "110px",
25          "border-bottom-left-radius": "110px",
26          "border-bottom": 0,
27          "width": "80px",
28          "height": "160px",
29          "background-color": "=if((@rowIndex % 2)==0,
30            [ColorP]+'1'),'rgba(0, 0, 0, 0.2)'"
31        }
32      },
33      {
34        "elmType": "div",
35        "style": {
36          "border-top-right-radius": "110px",
37          "border-bottom-right-radius": "110px",
38          "border-bottom": 0,
39          "width": "80px",
40          "height": "160px",
41          "background-color": "=if((@rowIndex % 2)==1,
42            [ColorP]+'1'),'rgba(0, 0, 0, 0.2)'"
43        }
44      }
45    ]
46  }
47 }


```


[Switch to design mode](#)


# List Formatting – Welcome

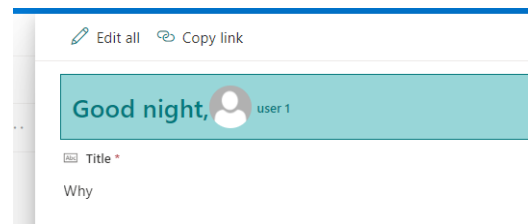
- Support Content to display welcome based on time of day
  - **Good morning, Good afternoon, Good evening, Good night**
- Create view “Welcome” and create new item
- Filter to Include 1 item and include **formatting with Operators**
  - **toLocaleTimeString** and time condition with text output. **PS: date format change on culture (AM/PM)**
- Get user picture using function **=getUserImage(@me, 's')**
- Access to SharePoint Page and include List Web Part with View “**Welcome**” or in **Forms Headers**

Good morning, 

Good afternoon, 

Good evening, 

Good night, 



## Format view

Format view Format columns

### Choose layout

List

Change the display of this view by adding JSON below. Remove the text from the box to clear custom formatting. [Learn more](#)

```
8 {
9   "elmType": "div",
10  "txtContent": "=if(if(indexOf(toLocaleTimeString(@now),
    +';';')=10,'0'+toLocaleTimeString(@now),
    toLocaleTimeString(@now))>'05:00:00 AM' && if(indexOf
    (toLocaleTimeString(@now)+';';')=10,'0'
    +toLocaleTimeString(@now),toLocaleTimeString(@now))
    <'11:59:59 AM','Good morning, ',if(if(indexOf
    (toLocaleTimeString(@now)+';';')=10,'0'
    +toLocaleTimeString(@now),toLocaleTimeString(@now))
    >'12:00:00 PM','Good afternoon, ',if(if(indexOf
    (toLocaleTimeString(@now)+';';')=10,'0'
    +toLocaleTimeString(@now),toLocaleTimeString(@now))
    >'06:00:00 PM','Good evening, ','Good night, ')))",
11  "attributes": {
12    "class": "ms-fontSize-24 ms-fontWeight-semibold"
13  },
14  },
15  {
16    "elmType": "img",
17    "style": {
18      "border-radius": "50%"
19    },
20    "attributes": {
21      "src": "=getUserImage(@me, 's')"
```

[Switch to design mode](#)

This formatting JSON will be discarded

# Demo

# Samples – List Formatting

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Thank you



<https://github.com/pnp/List-Formatting>