

A large pile of fresh, green Brussels sprouts filling the entire background of the slide.

#SPSBE

# Customizing the UI in Modern SharePoint Workspaces

Corinna Lins | @corinna\_lins

BIWUG

SharePoint Saturday Belgium 2019

# Thanks to our sponsors!

Platinum



Gold



Silver



Community



# ABOUT ME

My Topics:

- modern workplace design
- SharePoint/Office365 customizations
- and more... ☺

+ 7 years  
Microsoft  
consulting  
experience

 corinna\_lins

working @  
msg services ag in  
Munich (Germany)

- SharePoint Saturday Munich co-organizer
- Collaboration Meetup Munich



# ON THE AGENDA TODAY

- ✓ UI Customizations. Why?
- ✓ What has changed? From classic to modern design
- ✓ UI customizations and design in modern sites
  - ✓ Modern Themes
  - ✓ Hub Sites
  - ✓ Site Designs
  - ✓ List Formatting
- ✓ Useful tools and applications

UI  
CUSTOMIZATIONS  
WHY?

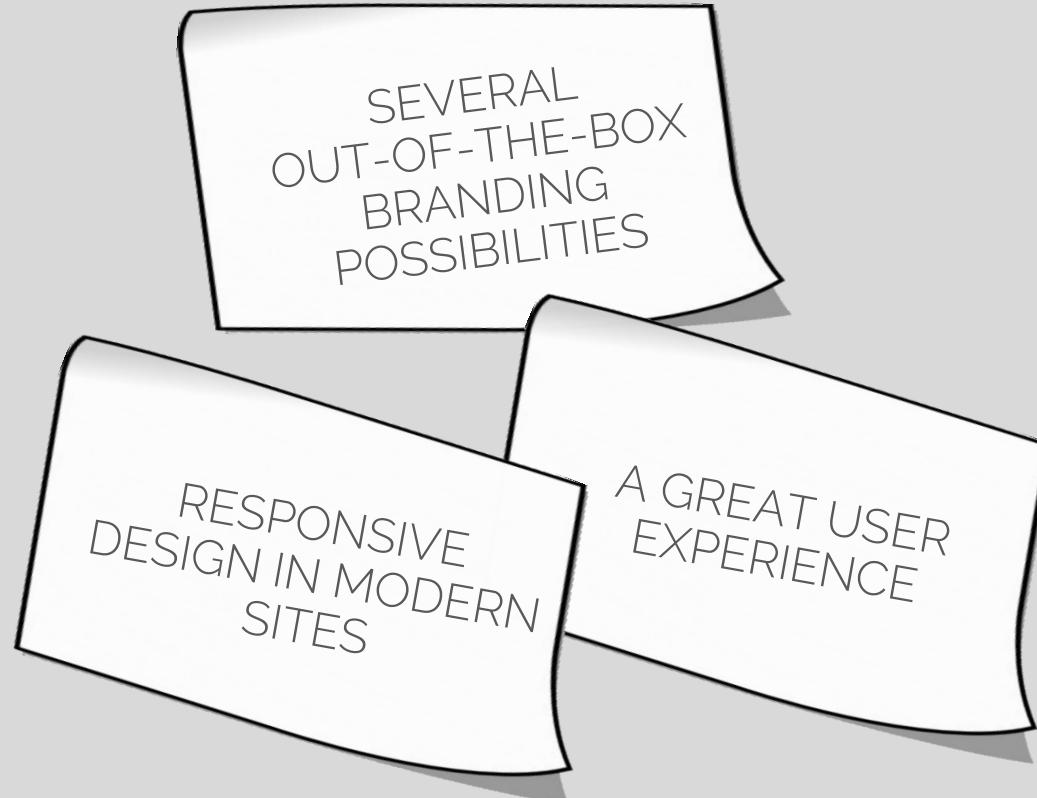
# WHY IS UI CUSTOMIZATION IMPORTANT?

- MARKETING
- CORPORATE IDENTITY
- UNIQUE EXPERIENCE
- USABILITY

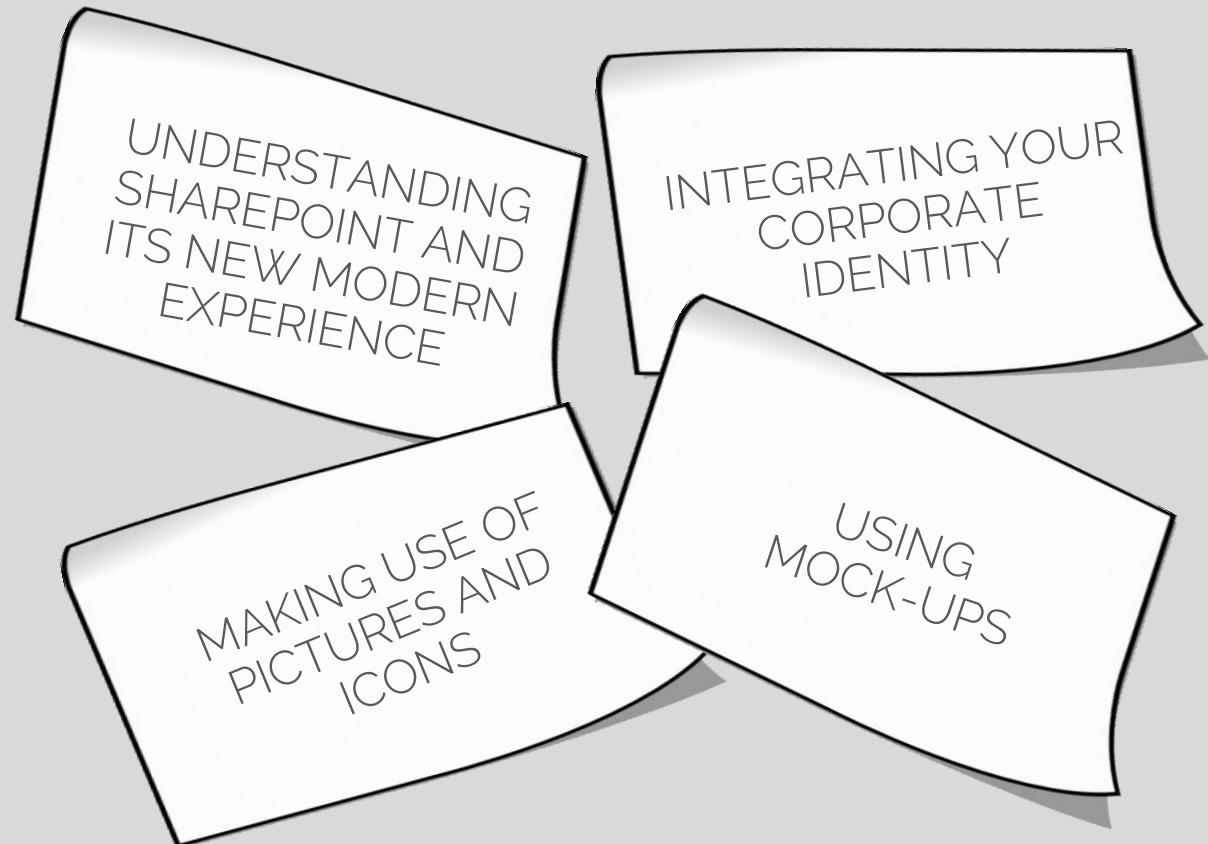


# START CUSTOMIZING YOUR UI

Microsoft offers you...



And you have to take care of...

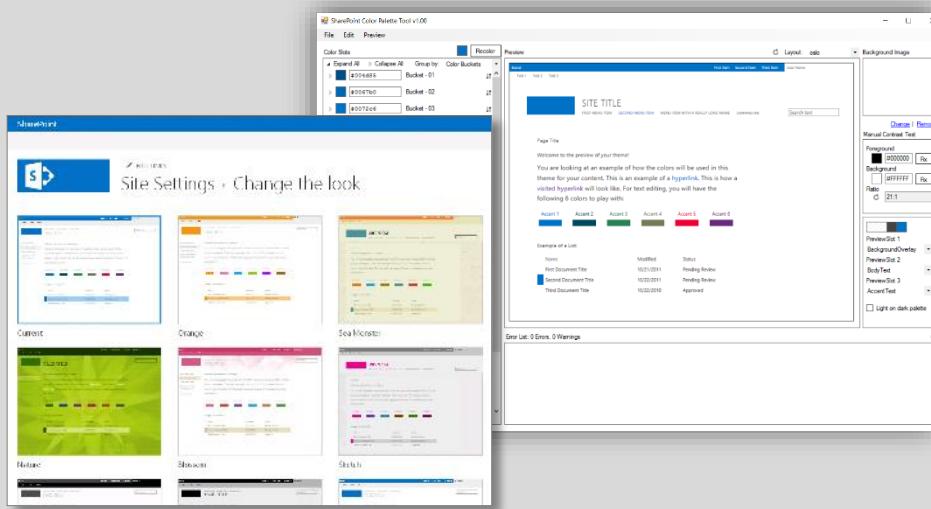


WHAT HAS  
CHANGED?

# Then ➔ Now

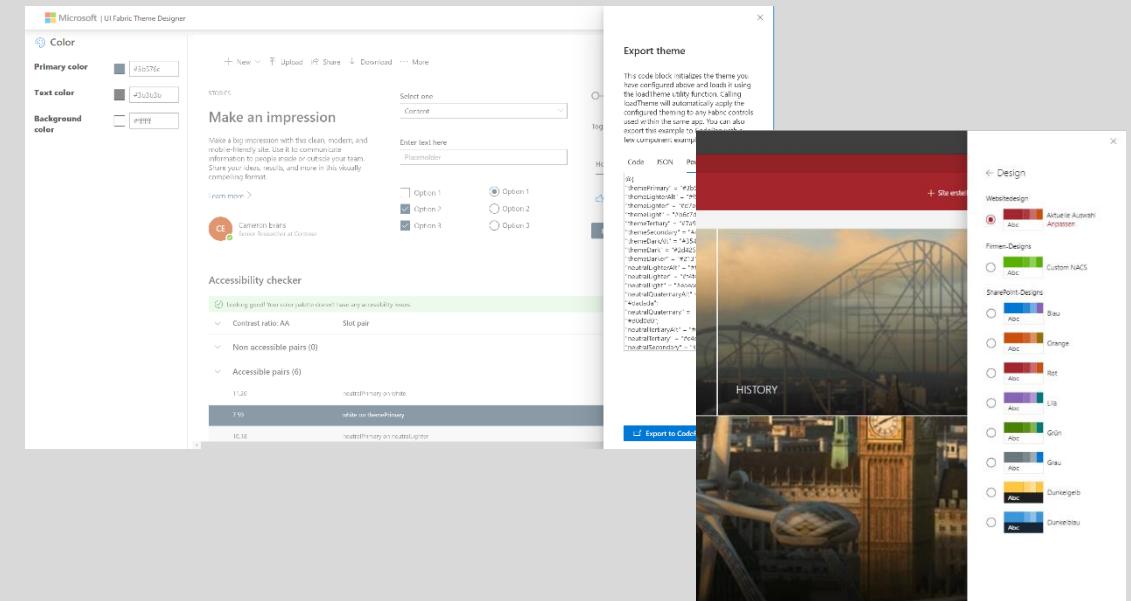
## Classic SharePoint Themes

- No longer necessary in modern SharePoint websites (still supported)
- Color Palette Tool (Free) for creating color definition themes



## Designs for modern SharePoint websites (Modern Design)

- Easily create themes with Theme Designer
- Deployment via PowerShell



# Then ➔ Now

## Page Layouts

- Layout definition in .aspx pages
- Complex code
- Usage of the SP Design Manager

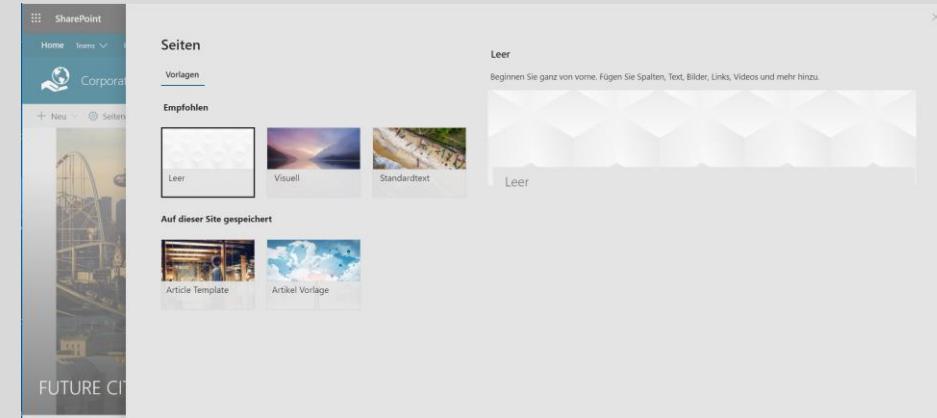


```
HTML

<!--MS:<asp:ContentPlaceHolder ID="PlaceHolderMain" runat="server">-->
<div>
    <!--CS: Start Page Field: Title Snippet-->
    <!--SPM:<%@Register Tagprefix="PageFieldTextField" Namespace="Microsoft.SharePoint.Portal.WebControls" %>-->
    <!--MS:<@Register Tagprefix="Publishing" Namespace="Microsoft.SharePoint.Publishing" %>-->
    <!--MS:<Publishing:EditModePanel runat="server" CssClass="edit-mode-panel">-->
        <!--MS:<PageFieldTextField:TextField FieldName="fa564e0f-0c70-4a1d-833a-00a0c91ff23">-->
        <!--ME:</PageFieldTextField:TextField>-->
    <!--ME:</Publishing:EditModePanel>-->
    <!--CE: End Page Field: Title Snippet-->
</div>
<div>
    <!--CS: Start Page Field: Page Image Snippet-->
    <!--SPM:<%@Register Tagprefix="PageFieldRichImageField" Namespace="Microsoft.SharePoint.Portal.WebControls" %>-->
    <!--MS:<PageFieldRichImageField:RichImageField FieldName="3de94b06-4a1d-4a1d-833a-00a0c91ff23">-->
        <!--PS: Start of READ-ONLY PREVIEW (do not modify)--><div id="contentPlaceholderMain"></div>
    <!--ME:</PageFieldRichImageField:RichImageField>-->
    <!--CE: End Page Field: Page Image Snippet-->
</div>
<!--ME:</asp:ContentPlaceHolder>-->
```

## Page Templates

- Easy creation
- Define sections and contents
- Templates are available when new pages are created by user



# Then ➔ Now

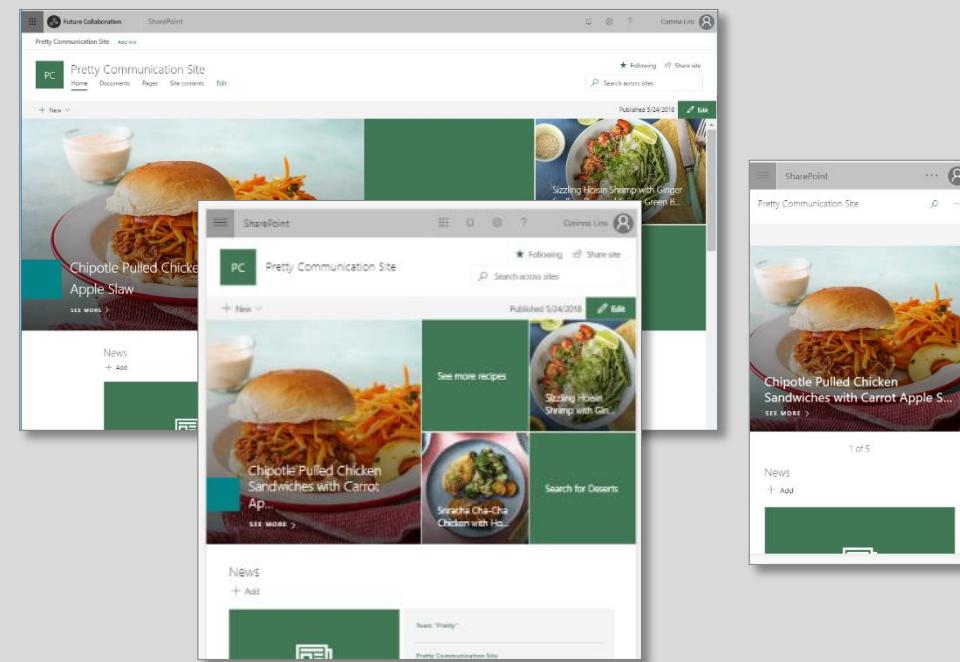
## Development for a classic intranet presence needed

- Responsive design
- Footer area
- Mega menu navigation
- News carousel



## Out-of-the-box Features

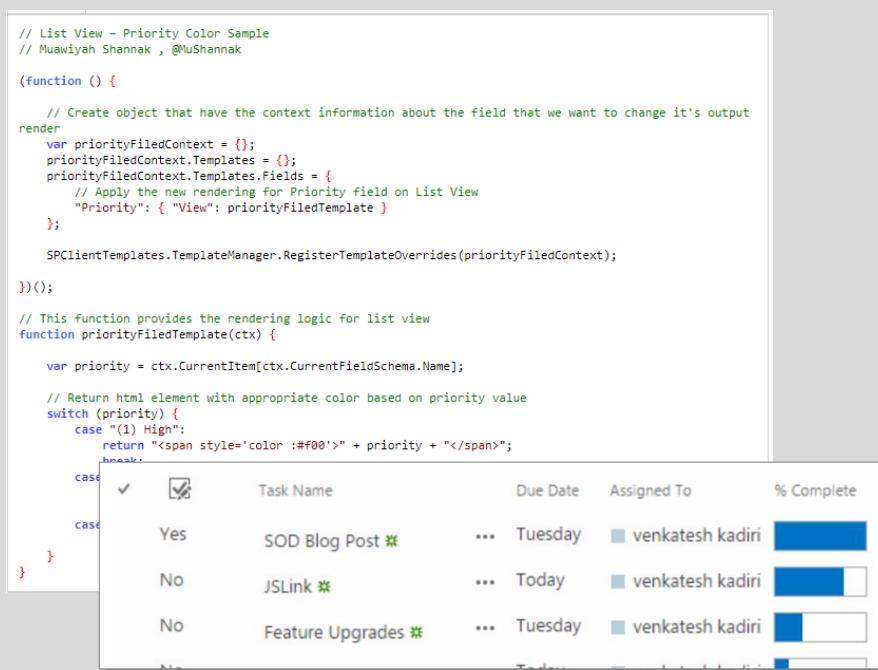
- Available features which are required in every internal company portal and collaboration platform



# Then ➔ Now

## List design based on JSLink

- Uses client side rendering
- Requires JavaScript skills



A screenshot of a SharePoint list view titled "Priority Color Sample". The list contains four items: "SOD Blog Post", "JSLink", "Feature Upgrades", and "Another item". The "Priority" column uses a color-coded rendering where "High" is red and "Low" is blue. The "Assigned To" column shows the name "venkatesh kadiri" for all items. The "Due Date" column shows various dates like "Today", "Tuesday", and "8/22/2018". The "Task Name" column lists the item names.

```
// List View - Priority Color Sample
// Muawiyah Shannak , @MuShannak

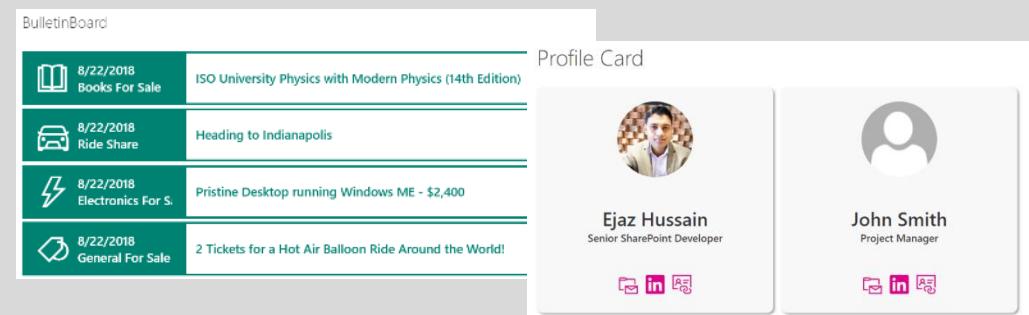
(function () {
    // Create object that have the context information about the field that we want to change it's output
    render
    var priorityFiledContext = {};
    priorityFiledContext.Templates = {};
    priorityFiledContext.Templates.Fields = {
        // Apply the new rendering for Priority Field on List View
        "Priority": { "View": priorityFiledTemplate }
    };
    SPClientTemplates.TemplateManager.RegisterTemplateOverrides(priorityFiledContext);
})();

// This function provides the rendering logic for list view
function priorityFiledTemplate(ctx) {
    var priority = ctx.CurrentItem[ctx.CurrentFieldSchema.Name];

    // Return html element with appropriate color based on priority value
    switch (priority) {
        case "(1) High":
            return "<span style='color :#f00'>" + priority + "</span>";
        break;
        case "(2) Low":
            return "<span style='color :#000'>" + priority + "</span>";
        break;
    }
}
```

## Column und View Formatting

- JSON object
- Can be added by a power user



A screenshot showing two SharePoint views. On the left is a "BulletinBoard" list view with items like "Books For Sale", "Ride Share", "Electronics For S.", and "General For Sale". On the right is a "Profile Card" view showing two profiles: Ejaz Hussain (Senior SharePoint Developer) and John Smith (Project Manager). Each profile card includes a photo, name, title, and social media links.

## Field Customizer (advanced)

- SPFx extension (deployment required)
- Dev skills needed

# Then ➔ Now

## Visualisation of search results with display templates

- A HTML file is converted automatically to JavaScript
- JavaScript dev skills are needed



## Visualisation of search results with SPFx modern search Web Parts

- GitHub Solution
- Templating system (similar to display templates) with handlebar
- Available WebParts: Search Results, Search Bar, Search Refiners etc.

The screenshot shows a modern search results page with a clean, grid-based layout. It features three items: 1. 'Roadmap User Dependencies during Office 365 Migration' (24.03.2019), 2. 'Webex Teams Keep connectedWebex ...' (22.03.2019), and 3. 'O365 Mailbox Migration - User Timeline What exactly happens ...' (26.03.2019). Each item has a small thumbnail image and a timestamp.

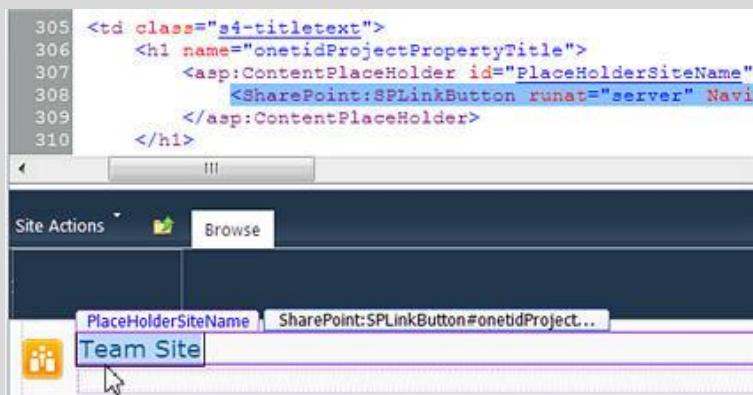
- HTML and CSS skills needed

<https://github.com/SharePoint/sp-dev-solutions/tree/master/solutions/ModerateSearch/react-search-refiners>

# Then ➔ Now

## Other utilities that were used before

- Custom CSS and JavaScript
- Alternate CSS
- MasterPage customizations



## What are the alternatives today?

- PnP Solution (Script Editor)
- Development with SPFx (Application Customizer)

### SharePoint Framework (SPFx)

Modern client-side development

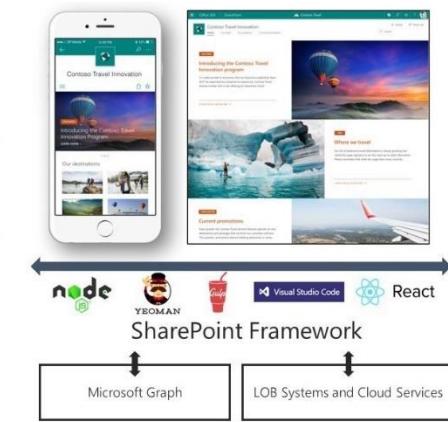
Lightweight web and mobile

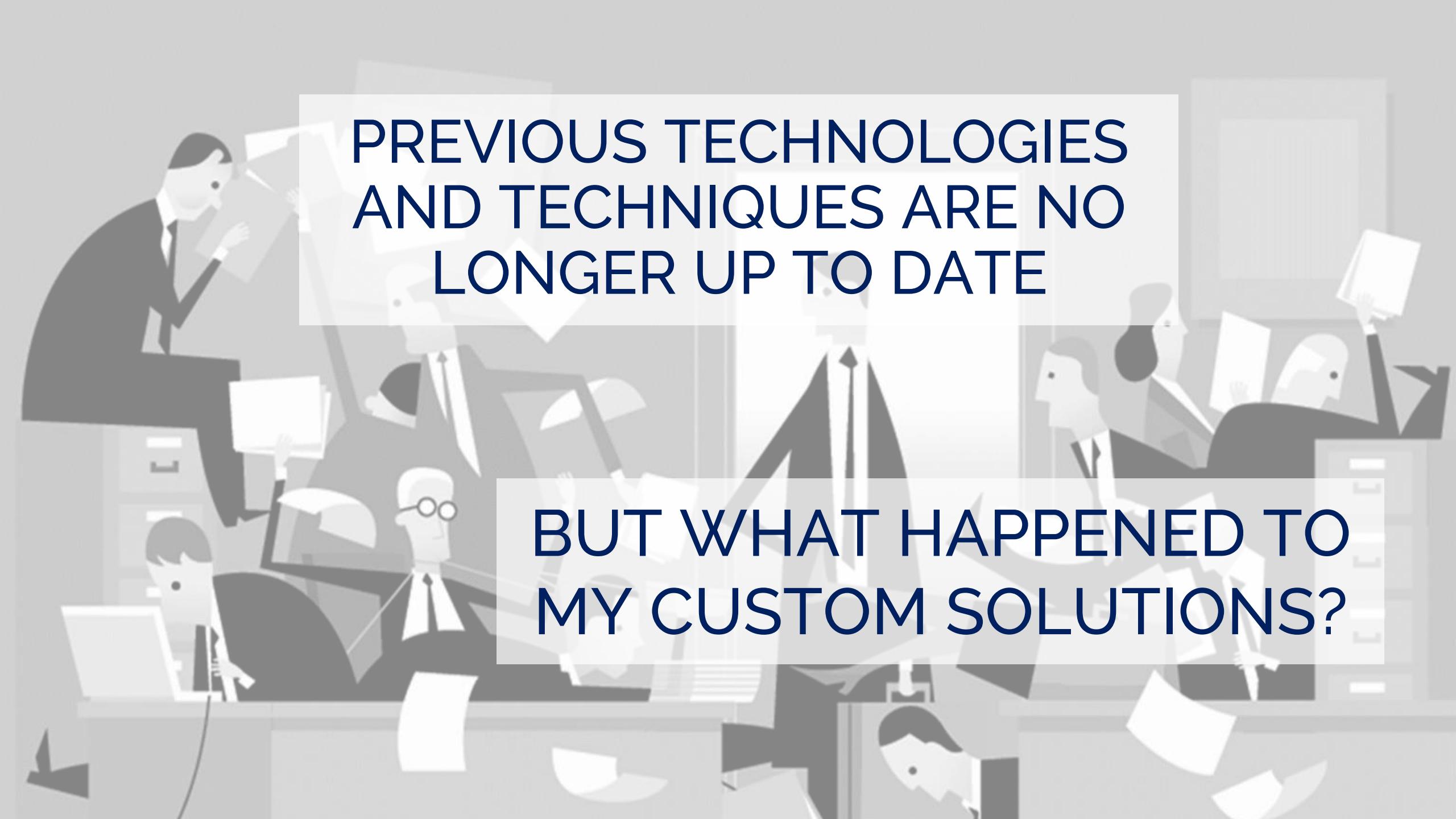
Powers our own experiences

Backward compatible

Supports open source tools and JavaScript web frameworks

<http://aka.ms/spfx-training>





PREVIOUS TECHNOLOGIES  
AND TECHNIQUES ARE NO  
LONGER UP TO DATE

BUT WHAT HAPPENED TO  
MY CUSTOM SOLUTIONS?



LET'S START  
BRANDING A SITE  
FROM SCRATCH

# TODAY: 2 TYPES OF MODERN SITES

## TEAM SITES

- Focus: teamwork & collaboration
- No top navigation
- Connection to Office 365 group (by default)

## COMMUNICATION SITES

- Focus: broadcast content to many users
- No left navigation
- Page publishing available
- Connection to Office 365 group not possible

The screenshot shows a SharePoint Corporate Portal page with several UI elements highlighted:

- Office 365 bar**: Located at the top left, showing Office 365 and SharePoint icons.
- Header background and style**: The dark blue header area containing the site logo, navigation, and search bar.
- Hub navigation**: The top-level navigation menu (Home, Teams, Edit).
- Site logo**: The logo icon and text "Corporate Portal".
- Navigation style**: The secondary navigation bar below the main one, featuring "Home", "Documents", "Pages", "Site contents", and "Edit" buttons.
- Theme color**: The overall color scheme of the page, which is blue.
- WebParts**: A large image placeholder for "ABOUT FUTURE CITY" with three sub-sections: PEOPLE, HISTORY, and MANUFACTURERS.
- Section layout and background**: The main content area with a white background, containing a "Documents" section and a footer.
- Footer area**: The bottom navigation bar with links for "Contact" and copyright information.

Office 365 bar

Office 365 | SharePoint

Home Teams Edit

Corporate Portal Home Documents Pages Site contents Edit + Create site ★ Not following Share site Search across sites Published 3/5/2019 Edit

+ New Page details

ABOUT FUTURE CITY

PEOPLE HISTORY MANUFACTURERS

News + Add 2020 Ford Super Duty Gets Big 7.3-Liter Gas Engine, Torquier Diesel, 10-Speed Auto As for the 7.3-liter gas motor—which Ford fans may n... APR 17 Annually company meeting Wed, Apr 17 All day See all

Events + Add event

Documents Name Protocol.doc

# GLOBAL BRANDING IN OFFICE 365

© 2019 My workplace Contact

# OFFICE 365 BAR

- In the Microsoft 365 admin center (Settings-> Organization profile -> Manage custom themes for your organization)
- Customizations:
  - Set custom logo
  - Set URL for clickable logo
  - Set background image
  - Prevent overriding the theme
  - Set navigation bar colors (text and background colors app launcher background and icon colors)



### Navigation bar customization

Custom themes

Select custom logo image

Upload

Image requirements: 200 x 30 pixels in JPG, PNG, or GIF format, and no larger than 10 KB

Future Collaboration [Remove custom logo image](#)

URL for a clickable logo

URL Requirements: Full URL including http:// or https://

Select background image

Upload

Image requirements: 1366 x 50 pixels or less in JPG, PNG, or GIF format, and no larger than 15 KB

Prevent users from overriding custom theming with their own theme

High-contrast themes, which make items easier to see, aren't affected by this setting.

Accent color

Nav bar background color

Text and icons

App launcher icon  Remove custom colors

User name

Show users' full names on the top navigation bar when they are signed in  On

SharePoint

Search this site

?

The screenshot shows a SharePoint Team Site with various UI customization elements highlighted:

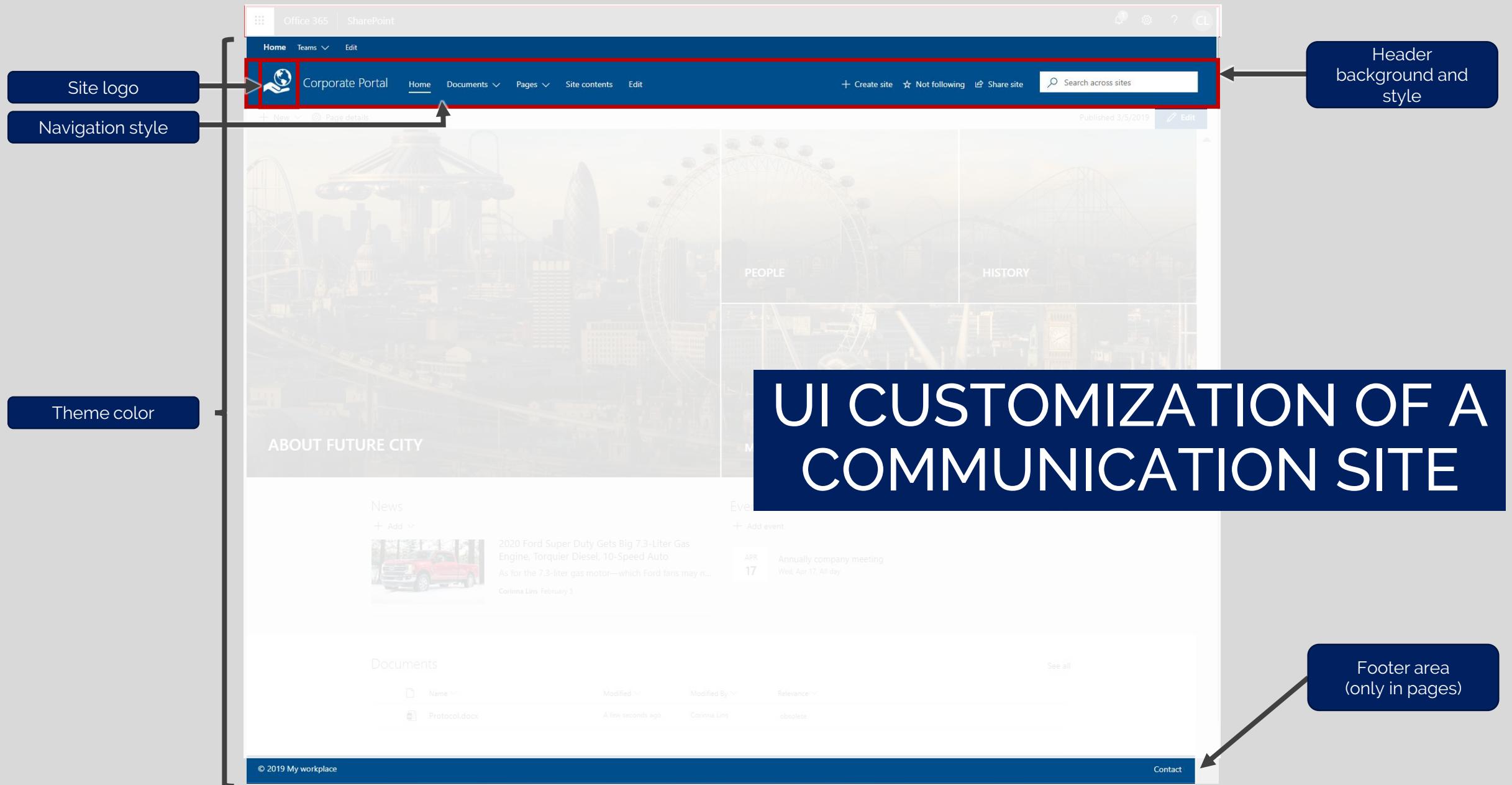
- Site logo**: Points to the site logo in the top left corner.
- Theme color**: Points to the dark blue header bar.
- Header background and style**: Points to the red header bar.

The page content includes:

- A banner with the text "ABOUT FUTURE CITY".
- A "News" section featuring a news item about the 2020 Ford Super Duty.
- An "Events" section showing an event for "Annually company meeting" on April 17.
- A "Documents" section listing a file named "Protocol.docx".

Page footer:

- Office 365 | SharePoint
- Home Teams Edit
- Corporate Portal Home Documents Pages Site contents Edit
- + Create site ★ Not following Share site Search across sites
- Published 3/5/2019 Edit
- © 2019 My workplace Contact





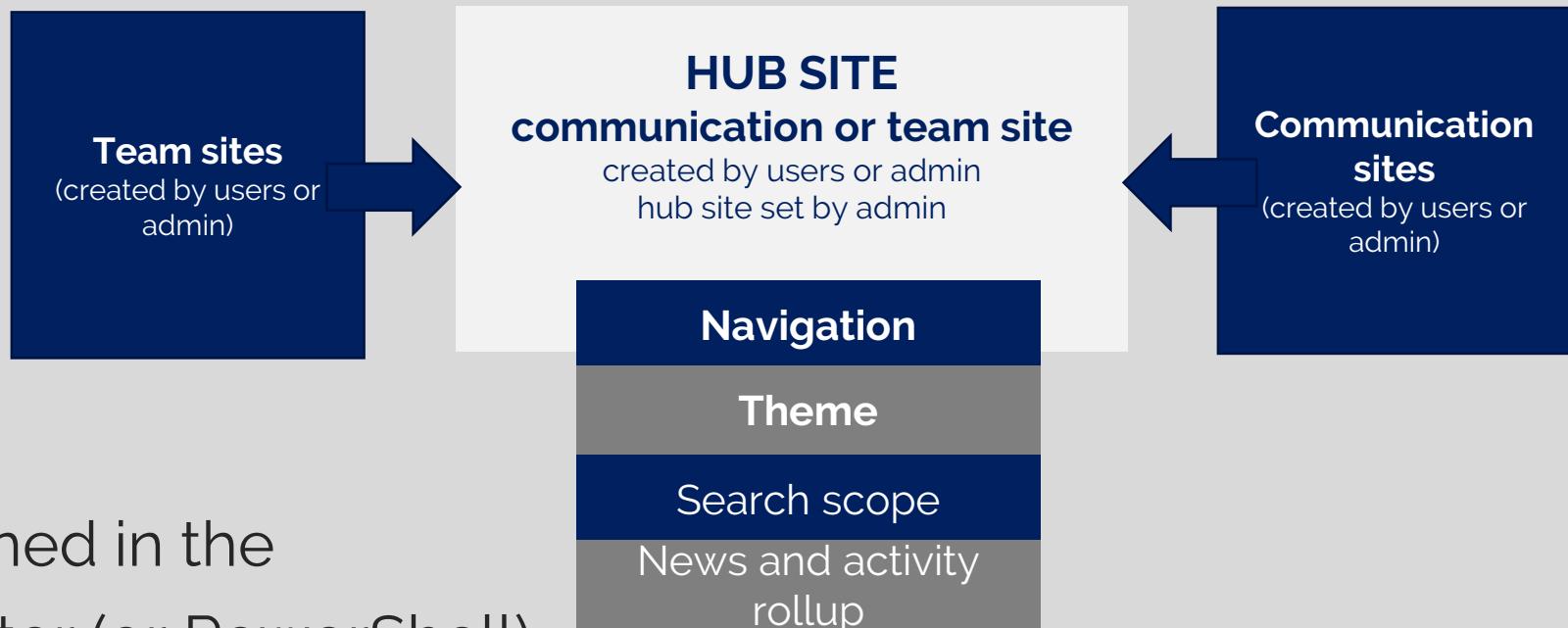
# DEMO TIME



# UI CUSTOMIZATION IN HUB SITES

# CUSTOMIZING SITES BY USING THE BENEFITS OF HUB SITES

- “helps you organize your intranet” – bring together related sites to roll up contents
- A hub site can be defined in the SharePoint admin center (or PowerShell)
- The theme has to be applied only to the hub site (inheritance)
- Sites can be added to a hub site directly in the UI of the site – they automatically inherit the design of the hub site



Theme color

Navigation style

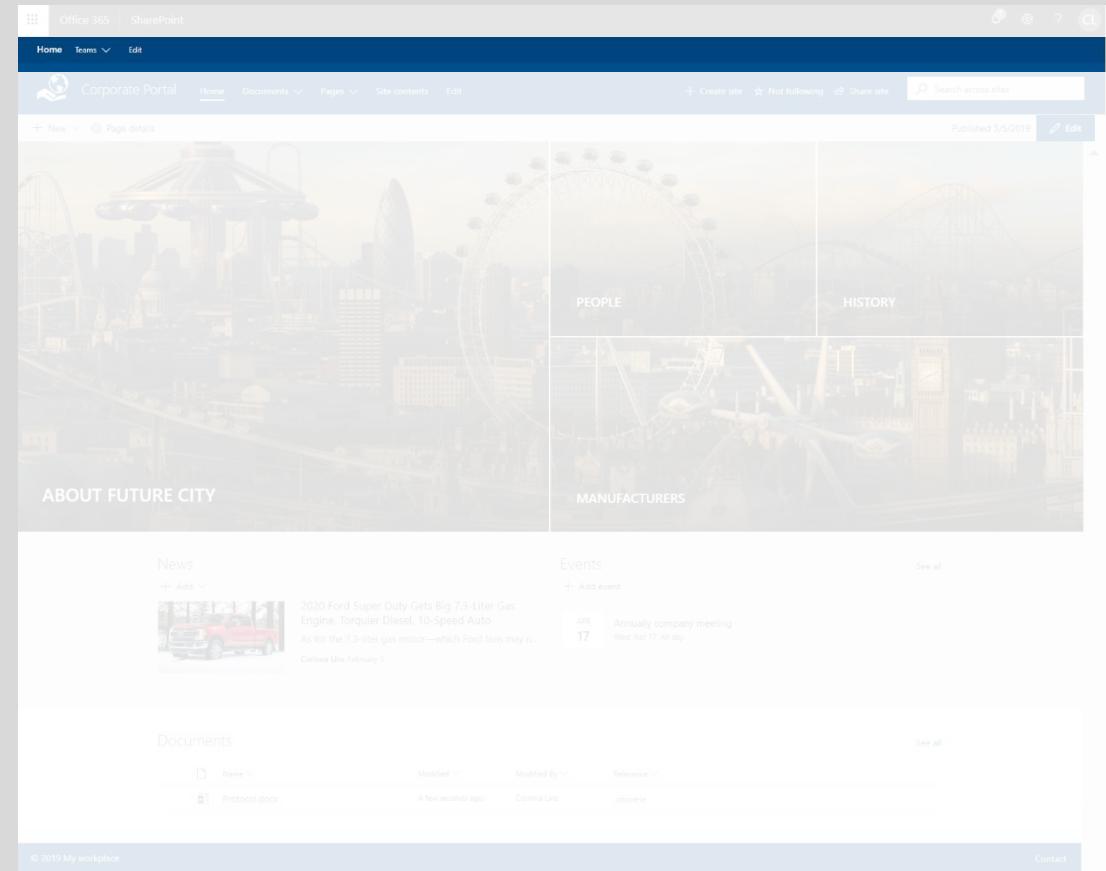
Header background  
and style \*  
(can be changed)

The screenshot shows a SharePoint hub site with the following features annotated:

- Theme color:** A blue bar at the top labeled "Theme color" spans the width of the header.
- Navigation style:** An arrow points to the "Home" link in the top navigation bar.
- Header background and style:** An annotation box covers the top navigation bar, which includes the "Corporate Portal" logo, navigation links (Home, Documents, Pages, Site contents, Edit), and site actions (+ Create site, ★ Not following, Share site, Search across sites).
- Background image:** A large background image of a city skyline with a ferris wheel and roller coaster.
- Section headers:** "ABOUT FUTURE CITY" and "HUBSITE BRANDING THAT APPLIES TO ASSOCIATED SITES" are displayed prominently.
- News section:** Shows a news item about the 2020 Ford Super Duty.
- Events section:** Shows an event for "Annually company meeting" on April 17.
- Documents section:** Shows a document named "Protocol.docx".
- Footer:** Includes copyright information ("© 2019 My workplace") and a "Contact" link.

# What to consider when using hub navigation?

- ✓ No management via term store
- ✓ No security trimming
- ✓ All sites assigned to a hub site will inherit its theme
- ✓ Not available in SharePoint 2019
- ✓ Not multilingual



+ Neu  Seitendetails  Bearbeiten

Veröffentlicht 17.6.2019



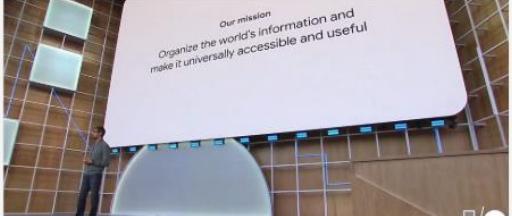
ABOUT FUTURE CITY

PEOPLE HISTORY

MANUFACTURERS

### Nachrichten

+ Hinzufügen 



Genius hid a Morse code message in song lyrics to prove Google was copying them – BGR - bgr.com

Did you ever notice how you tend to google the lyrics of a song and then you're not goi...

Corinna Lins vor 8 Minuten



Stocks making the biggest moves premarket: Pfizer, Array Biopharma, Boeing, Lockheed, Disney & more - cnbc.com

Corinna Lins vor 10 Minuten



Iran Says It Will Exceed Nuclear Deal's Limit On Uranium 'In 10 Days'

A spokesman for the Atomic Energy Organization of Ir...

Corinna Lins vor 12 Minuten



Cyclone Vayu Weakens, To Cross Gujarat Coast As Depression Tonight - ndtv.com

Cyclone Vayu has weakened and is likely to cross the G...

Corinna Lins vor 15 Minuten

### Events

+ Ereignis hinzufügen

JUN	26	Summcamp	Mi., 26. Juni, 3:30 nachm.
OCT	3	Sales Team Offsite Training	Mi., 10. Juli, Ganztagig

10. JULI  
12. JULI

Annual Company Meeting  
Do., 3. Okt., 8:30 vorm.

All anzeigen 

Edit Contact

© 2019 My workplace

# DEMO

# LET'S CREATE A MODERN THEME

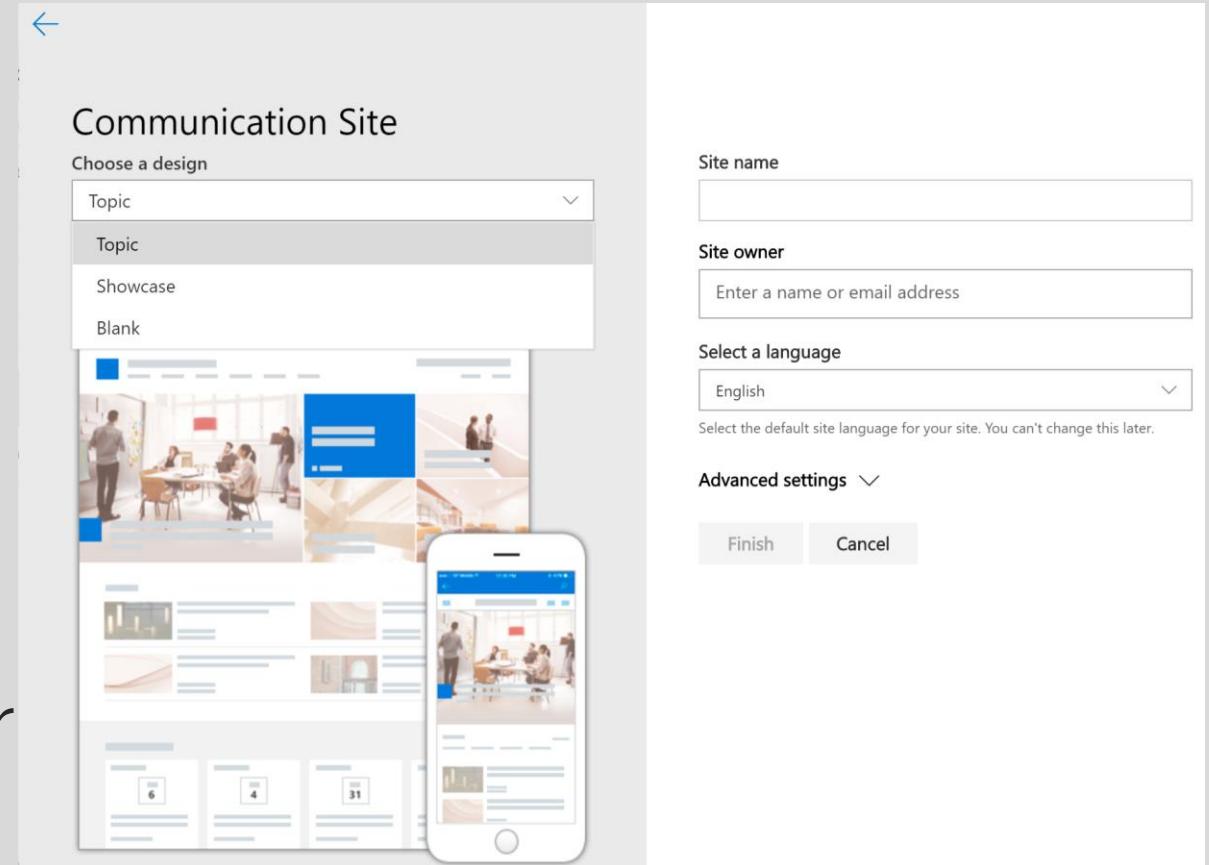
<https://aka.ms/themedesigner>



SITE DESIGNS.

# MODERN SITE TEMPLATES ➔ SITE DESIGNS

- the site design can be selected in the site creation service of the SharePoint startpage in Office 365
- are defined by a site script
- will be created for a team- or communication site



# THE SITE DESIGN USES A SITE SCRIPTS

- .JSON format
- Site script actions:
  - Applying a theme
  - Setting a site logo
  - Join a hub site
  - Creating a new list or library
  - Creating site columns, content types, and configuring other list settings
  - And more...
- Easy creation of site script syntax from an existing SharePoint list by PowerShell

```
{
  "$schema": "schema.json",
  "actions": [
    {
      "verb": "applyTheme",
      "themeName": "Pretty Dark Blue"
    },
    {
      "verb": "createSPList",
      "listName": "Idea Management",
      "templateType": 100,
      "subactions": [
        {
          "verb": "SetDescription",
          "description": "List of new ideas"
        },
        {
          "verb": "addSPField",
          "fieldType": "Text",
          "displayName": "Idea",
          "addToDefaultView": true,
          "isRequired": true
        },
        {
          "verb": "addSPField",
          "fieldType": "User",
          "displayName": "Idea Artist",
          "addToDefaultView": true,
          "isRequired": true
        },
        {
          "verb": "addSPField",
          "fieldType": "Note",
          "displayName": "Notes",
          "isRequired": false
        }
      ],
      "bindata": {},
      "version": 1
    }
  ]
}
```

# SAVE LIST DEFINITION

- List definitions can be exported and reused in site scripts

```
Get-SPOSiteScriptFromList -ListUrl "  
https://yourtenant.sharepoint.com/sites/SiteCollectionURL/  
Lists>Listname"
```

- Issued code must be copied to site script

# ADDING SITE SCRIPTS AND SITE DESIGNS

1. Add the site script to the tenant

```
Get-Content 'C:\temp\SPtheme.json' -Raw | Add-SPOSiteScript -Title "Custom Pretty Team Site"
```

2. Get generated site script ID and use it to add the site design

```
Add-SPOSiteDesign -Title "Custom Pretty Team Site" -WebTemplate "64" -SiteScripts  
"5aedccaf-80a2-40f5-8dcb-2be7e5f21661" -Description "Creates a new custom Team Template Site"-PreviewImageUrl "https://mypretty.sharepoint.com/SiteAssets/logo.jpeg" -  
PreviewImageAltText "site preview"
```



# LIST FORMATTING

# VIEW AND COLUMN FORMATTING IN SHAREPOINT

- JSON code is added directly in the list/library view or in the column
- Many samples available on GitHub
  - See [SharePoint List Formatting Samples](#)

The screenshot shows a SharePoint 'Suppliers' list with three items:

Supplier Name	Supplier Contact Person	Supplier Type
DEFS	Corinna Lins	Logistics
VENTRA	Mike Bowl	Quality
Star Alliance	Marie Crawl	Logistics

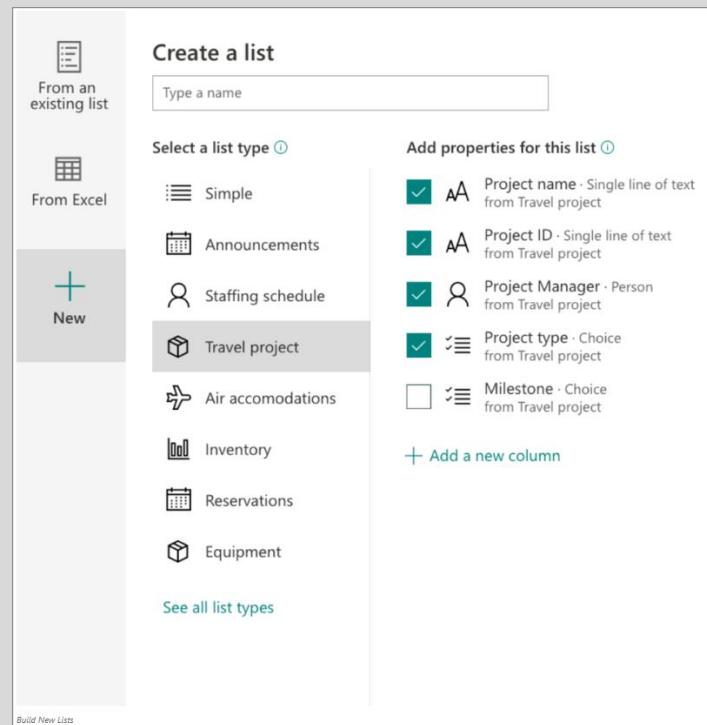
Callout boxes point to the list area:

- A dark blue callout box labeled "View formatting" points to the third row.
- A dark blue callout box labeled "Column formatting" points to the first row.



**DEMO  
TIME**

# ... SHAREPOINT 2019



New list creation experience

The screenshot shows a SharePoint site with a dark blue header. The top navigation bar includes 'Future Collaborative', 'Home', 'Documents', and 'Recent'. The main content area features a large title 'THE MODERN EXPERIENCE IS ALSO AVAILABLE IN SHAREPOINT 2019!' with a background image of people working in an office. Below the title is a 'Welcome! Click Edit at the top right of the page to start customizing' message with a 'LEARN MORE >' link. The page contains several tiles: a 'News' tile with a '+ Add News' button and a 'Keep your audience engaged by sharing your latest updates.' message; three 'Preview that shows the first few lines of the article.' tiles with 'Author name A few seconds ago' and a 'Customize this tile with your own title, image and link' message; and two additional preview tiles at the bottom. The right side of the screen shows a sidebar with 'Following', 'Share site', 'Published', and 'Edit' buttons, along with a thumbnail of a person in a suit.



# USEFUL TOOLS AND EXTENSIONS

# SHAREPOINT DESIGN WEBSITE

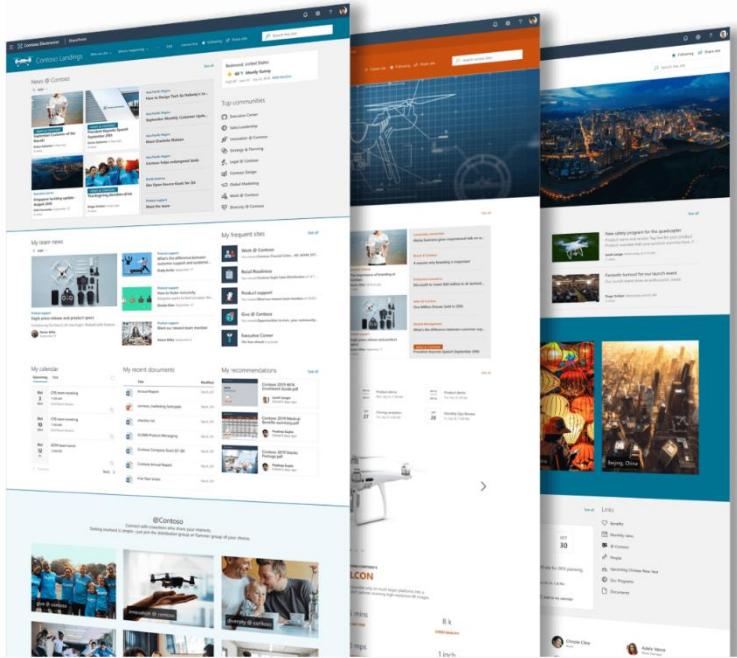
SharePoint

DESIGN PRINCIPLES SITES & PAGES WEB PARTS PLATFORMS RESOURCES FRAMEWORKS SHAREPOINT LOOK BOOK ▾

**Design beautiful and performant sites, pages, and web parts with SharePoint in Office 365.**

Get inspired. Discover the modern experiences you can build with SharePoint in Office 365.

[VIEW SHAREPOINT LOOK BOOK](#)



## SharePoint design principles

SharePoint builds on the design principles that shape the Office and Microsoft product families. These principles help the design stay true to our brand and make it easy to use.

- SharePoint Design Principles
- SharePoint LookBook (Examples)
- And more
- More examples and samples: [SharePoint Online Provisioning Service](#)

<https://spdesign.azurewebsites.net/>

# SharePoint Provisioning Service (Beta)

- Add samples, templates and solutions to your Office 365 tenant
- Recommendation: first deploy it on a test tenant
- Open source project

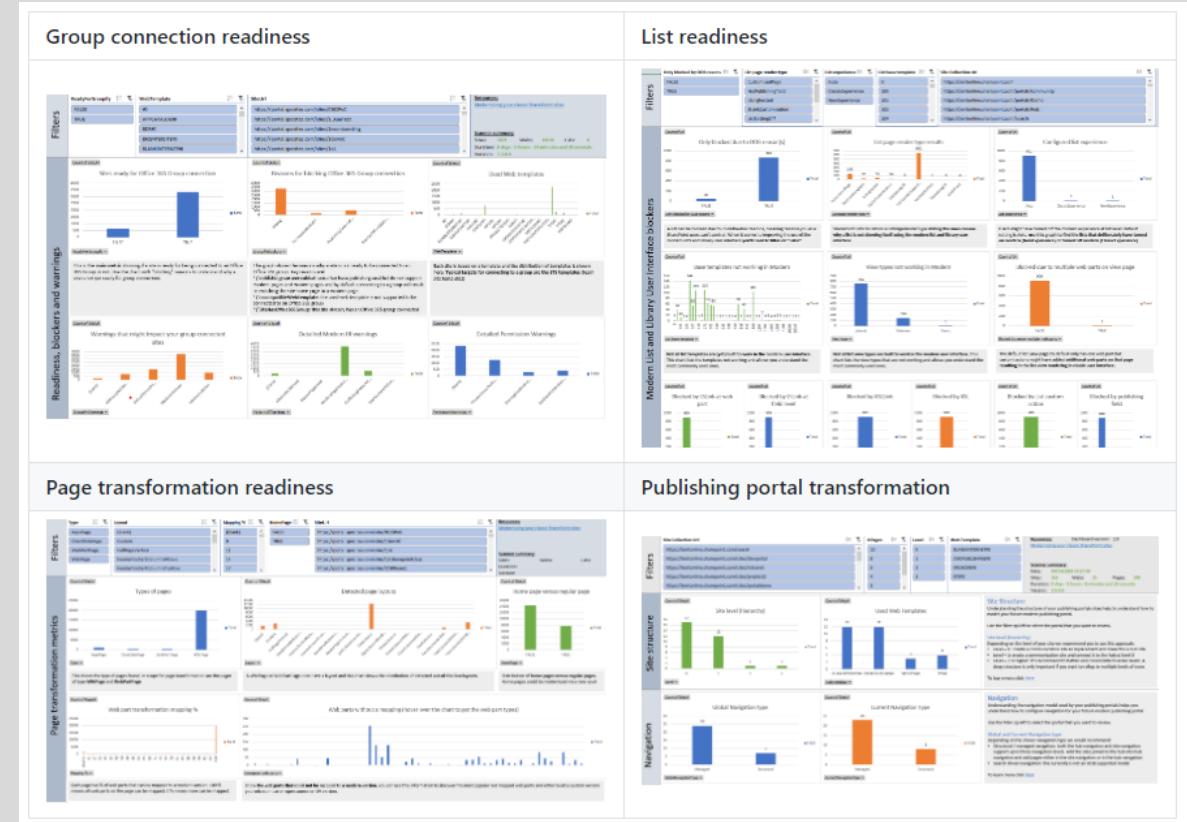
<https://provisioning.sharepointpnp.com/>

The screenshot displays the SharePoint Online Provisioning Service (Beta) interface. At the top, there's a banner with the text "See the possibilities" and "Deploy > Demonstrate > Test". Below the banner, two main sections are shown: "Contoso Enterprise Landing" and "Contoso Drone Landing". Each section includes a preview image, a title, and a brief description. At the bottom, there are several smaller thumbnail previews for other site types: "Leadership Site", "Contoso Team Site", "Marketing Landing", and "Product Marketing @ Contoso". A navigation bar at the very bottom includes tabs for "Community", "Department" (which is highlighted in red), "Organization", "Solutions", and "Team".

# SharePoint Modernization Scanner

- Provides an analysis of the readiness of your classic sites for modernization
- Scans SharePoint Online environments only
- Local installation required
- Scans single pages or entire tenant
- Free of charge (from Microsoft)

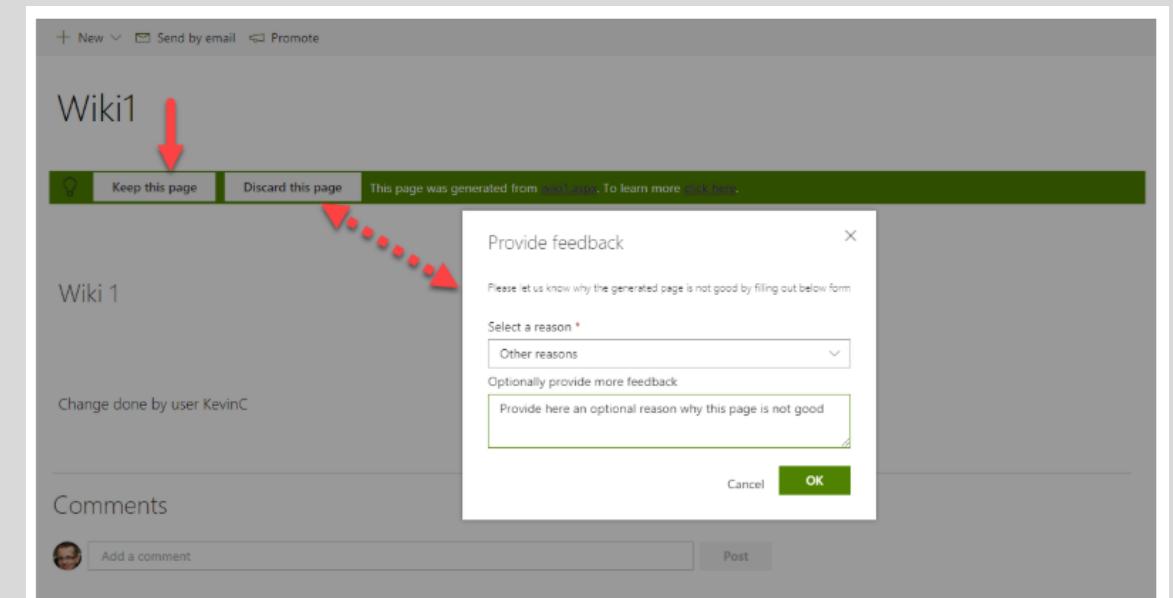
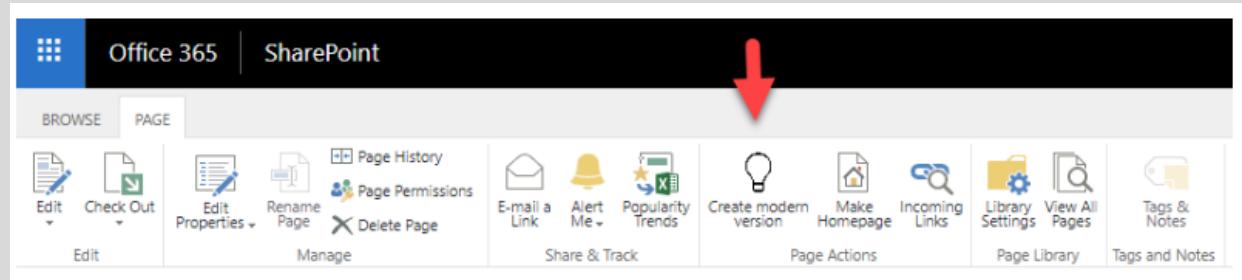
<https://github.com/SharePoint/sp-dev-modernization/tree/master/Tools/SharePoint.Modernization>



# SharePoint Page Transformation Engine

- Provides support for modernization of classic SharePoint pages
- Modernization can be done
  - by end users via the UI or
  - by IT via PowerShell or .NET
- For custom page layouts a mapping file is required
- Free of charge

<https://docs.microsoft.com/en-us/sharepoint/dev/transform/modernize-userinterface-site-pages-ui>



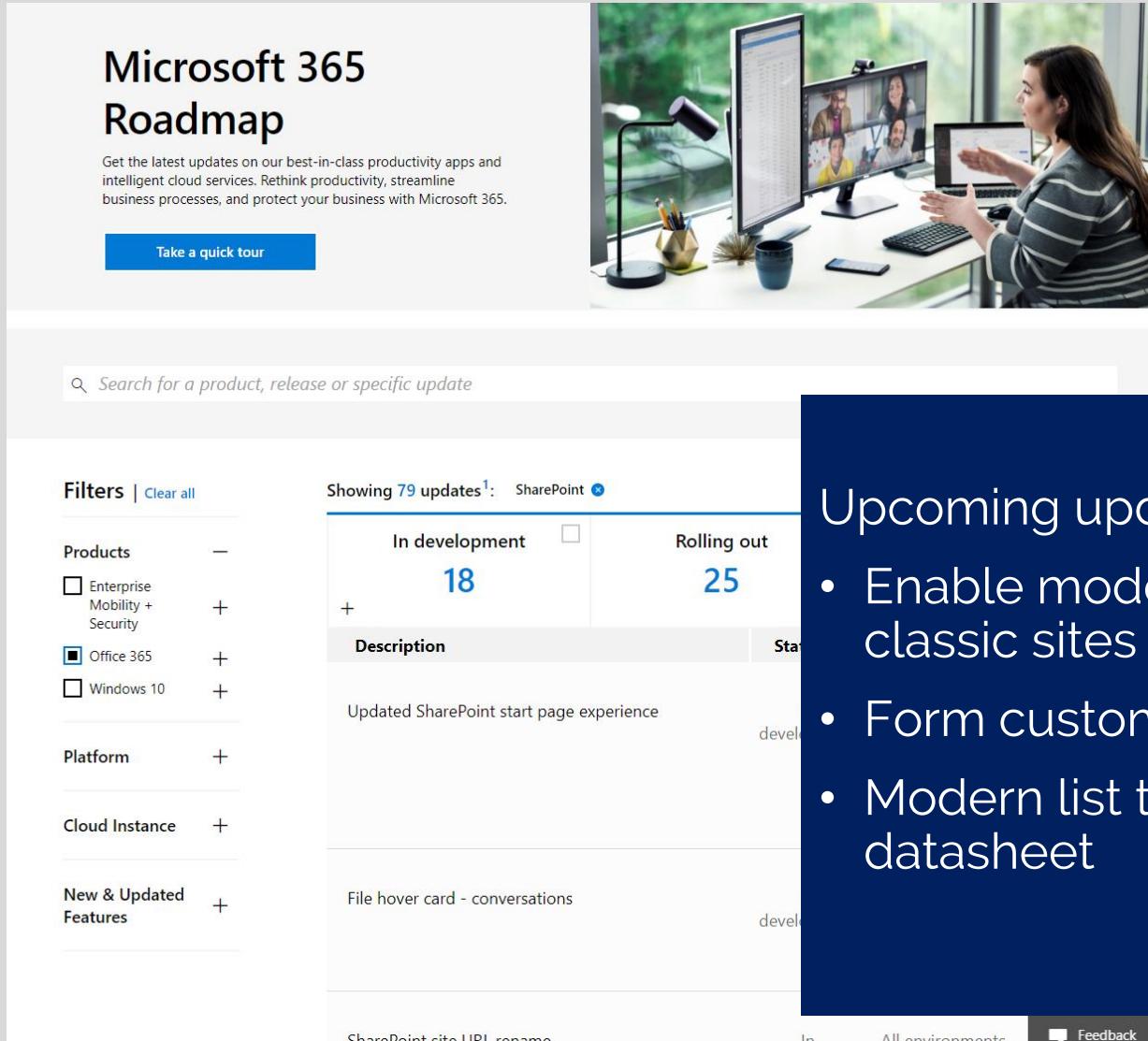


Summarized...

# RECAP

- Use custom themes and site designs to brand your sites
- Hub Sites bring together related sites and offer a consistent design for associated sites
- Extend your customizations with SPFx solutions
- Microsoft offers a lot of support (code samples, solutions and tools). Use them!
- Stay up to date (roadmap and news)

# MICROSOFT 365 ROADMAP



The screenshot shows the Microsoft 365 Roadmap page. At the top, there's a heading "Microsoft 365 Roadmap" with a subtext: "Get the latest updates on our best-in-class productivity apps and intelligent cloud services. Rethink productivity, streamline business processes, and protect your business with Microsoft 365." Below this is a "Take a quick tour" button. To the right is a photograph of a woman sitting at a desk, engaged in a video conference with multiple people on a screen. A search bar is visible below the photo. On the left, there's a sidebar with filters for "Products" (Enterprise Mobility + Security, Office 365, Windows 10), "Platform", "Cloud Instance", and "New & Updated Features". The main content area shows a grid of updates under "Showing 79 updates": "SharePoint" (18 In development, 25 Rolling out). One update is listed: "Updated SharePoint start page experience". At the bottom, there are buttons for "SharePoint site URL rename", "In", "All environments", and "Feedback".

<https://www.microsoft.com/en-us/microsoft-365/roadmap>

## Upcoming updates in SharePoint (UI topics)

- Enable modern communication site experience on classic sites
- Form customization in SharePoint lists and libraries
- Modern list templates for issues, contacts and datasheet



# AND THE JOURNEY CONTINUES!

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 corinnalins.com

# USEFUL LINKS

- [Microsoft 365 Roadmap](#)
- [SharePoint LookBook](#)
- [SharePoint site design: PowerShell cmdlets](#)
- [The ultimate guide to SharePoint site designs and site scripts](#)
- [Enrich your SharePoint Content with Intelligence and Automation](#)
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