TRISKELE

Custom Visual: Scope of Work

Microsoft PowerBI

Description: Build 2 visuals from scratch and modify / update 2 visuals using the PowerBI visual API. These visuals need to be dynamic and follow all PowerBI standards.

Project Deliverables: 4 .pbiviz files and the associated folder of code.

PowerBI Documentation: https://docs.microsoft.com/en-us/power-bi/developer/visuals/develop-power-bi-visuals

1. Visuals to Build:

    a) Matrix

    b) Selection Filter

2. Visuals to Modify / Update Existing Code:

    a) Slider Filter

    b) Timeline Filter

Triskele to define clear specifications for fields and format settings for each visual.

1a. Matrix

Description: Build a custom Matrix that allows a user on a PowerBI report to view and select individual data points.

+ Date & Time	Kilocalories (kcal)
+ Fri, Oct 15, 2021	3,000
− Sat, Oct 16, 2021	3,000
− 12:00 PM – 01:00 PM CST	325
12:05 PM CST Turkey Sandwich with Cheddar Cheese and Lettuce | 1 serving	200
12:10 PM CST Fruit Smoothie | 8 Fl. Oz.	125
+ 03:00 PM – 04:00 PM CST	200

Date	Steps
+ Fri, Oct 15, 2021	3,000
− Sat, Oct 16, 2021	3,000
12:05 AM – 12:06 AM CST	26
12:28 AM – 12:38 AM CST	125
12:42 AM – 12:55 AM CST	300
8:42 AM – 8:55 AM CST	303
1:00 PM – 1:05 PM CST	405

1b. Selection Filter

Build

Description: Build a custom Selection Filter that allows a user on a PowerBI report to filter the data based on the items selected in the visual.

Kilocalories (kcal)

Multiple	^

🔍 Search

Selected (3/5)   None 🔵 All

☐ Apple Watch
☑ FitBit
☑ Garmin
☑ My Fitness Pal
☐ Sleep Analysis

Data Source

🔍 Search

Selected (1/5)

🔘 Apple Watch
⭕ FitBit
⭕ Garmin
⭕ My Fitness Pal
⭕ Sleep Analysis

2a. Slider Filter

Description: Modify / update a custom Slider Filter that allows a user on a PowerBI report to filter the data based on the values selected in the visual.

Kilocalories (kcal)

Greater Than

1,500
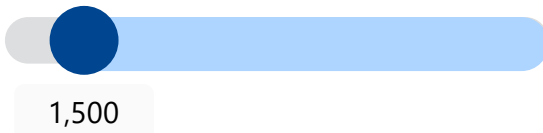
Hours & Minutes

Between

15 mins   3 hrs

Time

Beyond

4:00 AM   10:00 PM
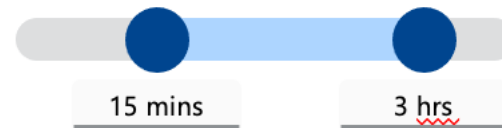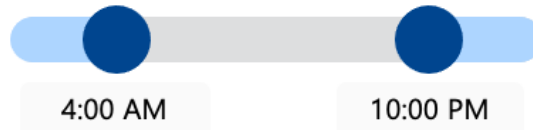
2b. Timeline Filter

Description: Modify / update a custom Timeline Filter that allows a user on a PowerBI report to filter the date based on the dates selected in the visual.

Fields & Format (1/3)　　05

Fields
- **Value(s):** Multiple Item *(Required)*
- **Group By:** Single Item *(Not Required)*
- **Unit:** Single Item *(Required)*

Format Settings (1/3) – *Standard*

Title (Standard)
- **On / Off – Default: Off**
  - Title text – Default: None
  - Title heading – Default: Heading 3
  - Word wrap – Default: On
  - Font color – Default: #000000
  - Background color – Default: None
  - Alignment – Default: Left Justified
  - Text Size – Default: 12 pt
  - Bold – Default: Off
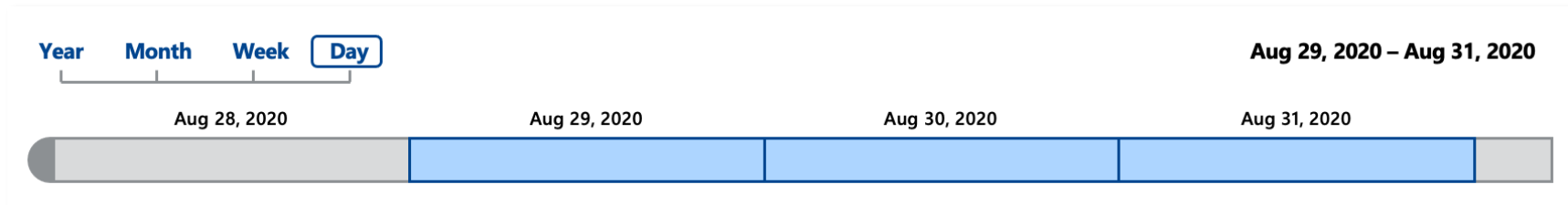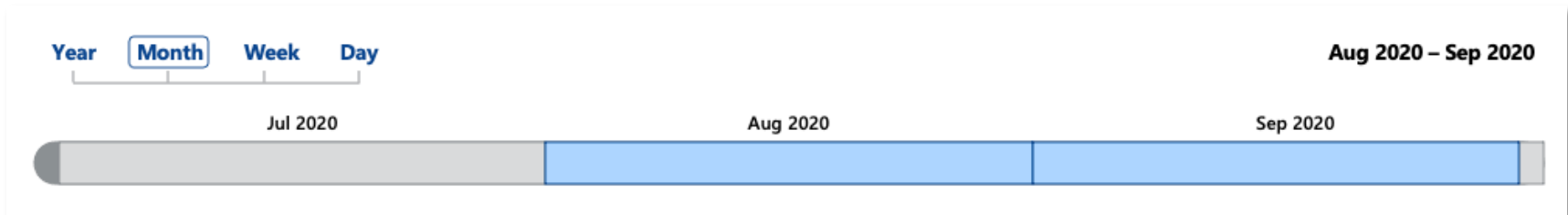 - Italic – Default: Off
  - Underline – Default: Off
  - Font family – Default: Segoe UI Bold

Shadow (Standard) – *Not Shown*
- **On / Off – Default: Off**
  - Color – Default: #000000
  - Shadow position – Default: Outside *(Options: Outside, Inside)*
  - Present – Default: Bottom right *(Options: Bottom right, Bottom, Bottom left, Right, Center, Left, Top right, Top, Top left, Custom)*
  - Size – Default: 3 px
  - Blur – Default: 10 px
  - Angle – Default: 45 deg
  - Distance – Default: 10 px
  - Transparency – Default: 70%

Kilocalories (kcal)

Greater Than ⌄

1,500

Border (Standard)
- **On / Off – Default: Off**
  - Color – Default: #ffffff
  - Radius – Default: 10 px

Background (Standard)
- **On / Off – Default: Off**
  - Color – Default: #ffffff
  - Transparency – Default: 0%

General (Standard)
- Responsive – Default: On
- X Position – Default: 0
- Y Position – Default: 0
- Width – Default: 100 px
- Height – Default: 100 px
- Maintain layer order - Default: On
- Alt text – Default: None

Visual Header (Standard) – *Not Shown*
- **On / Off – Default: Off**
  - Background color – Default: #ffffff
  - Border – Default: #ffffff
  - Transparency – Default: 0%
  - Icon color - #000000
  - Visual information icon – Default: On
  - Visual warning icon – Default: On
  - Visual error icon – Default: On
  - Drill on dropdown – Default: On
  - Drill up icon – Default: On
  - Drill down icon – Default: On
  - Show next level icon – Default: On
  - Expand to next level icon – Default: On
  - Pin icon – Default: On
  - Focus mode icon – Default: On
  - Filter icon – Default: On
  - See data layout icon – Default: On
  - More options icon – Default: On
  - Visual header tooltip icon – Default: On
  - Comment button – Default: On
  - Personalize visual – Default: On
  - Copy icon – Default: On

(Second slide)　04

- **Row Category:** Allow Single Item
- **Rows:** Allow Multiple Items
- **Group Rows By:** Single Item
- **Columns:** Allow Multiple Items
- **Values:** Allow Multiple Items

Settings

...Off
- ... Default: None
- ...ng – Default: Heading 3
- ... – Default: On
- ... – Default: #000000
- ...d color – Default: None
- ... – Default: Left Justified
- ...ault: 12 pt
- ...ault: Off
- ... Off
- ...ault: Off
- ... Default: Segoe UI Bold

Date	Steps
⊞ Fri, Oct 15, 2021	3,000
⊟ Sat, Oct 16, 2021	3,000
12:05 AM – 12:06 AM CST	26
12:28 AM – 12:38 AM CST	125
12:42 AM – 12:55 AM CST	300
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1:00 PM – 1:05 PM CST	405

Row Header
- Background color – Default: #ffffff
- Radius – Default: 5 px
- Outline style – Default: Right only *(Options: None, Bottom only, Top only, Left only, Right only, Top + Bottom, Left + Right, Frame)*
- Outline thickness – Default: 2 px
- Outline color – Default: #3f464b
- Divider thickness – Default: 2 px
- Divider color – Default: #3f464b
- Font family – Default: Segoe UI Bold
- Font size – Default: 12 pt
- Font color – Default: #000000
- Bold – Default: Off
- Italic – Default: Off
- Underline – Default: Off
- Alignment – Default: Left *(Options: Left, Center, Right)*

Border
- **On / Off – Default: Off**
  - Color – Default: #ffffff
  - Radius – Default: 10 px

Background
- **On / Off – Default: Off**
  - Color – Default: #ffffff
  - Transparency – Default: 0%

Column Header
- Background color – Default: #ffffff
- Radius – Default: 5 px
- Outline style – Default: Bottom only *(Options: None, Bottom only, Top only, Left only, Right only, Top + Bottom, Left + Right, Frame)*
- Outline thickness – Default: 2 px
- Outline color – Default: #3f464b
- Divider thickness – Default: 2 px
- Divider color – Default: #3f464b
- Font family – Default: Segou UI Bold
- Font size – Default: 12 pt
- Font color – Default: #000000
- Bold – Default: Off
- Italic – Default: Off
- Underline – Default: Off
- Alignment – Default: Left *(Options: Left, Center, Right)*
- Word Wrap – Default: On

Values
- Background color – Default: #ffffff
- Alternate background color – Default: #d9dadb
- Apply Alternate background to row header -

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