

Key Takeaways: Lego Set Explorer Dashboard in Power BI

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Parameters

- Definition
 - Serve as a variable readers can interact with via a slicer.
- Usage
 - To visualize and quantify report values.
- Steps to create
 - Modeling > New parameters > **Numeric range**
 - Set min., max., and increment values.
 - Tick the "Add slicer to this page" box.
- Consideration and limitation
 - Parameters can only have 1000 unique values.
 - If > 1000 unique values, the parameter value will be evenly sampled.
 - Designed for measures within visuals
 - Might not calculate properly when used in a dimension calculation.

Calculated Measures

- Definition
 - Measures that calculate dynamic values based on user interaction.
- Usage
 - Enhance interactivity
- Selected [Field] = IF(HASONEVALUE('lego_sets'[Field]), MAX('lego_sets'[Field]), [Placeholder])**
 - DAX Functions
 - IF**
 - Conditional function in DAX
 - Syntax
 - IF(condition, true_result, false_result)
 - Check if one value is selected
 - If True
 - Return the specific selected value.
 - If False
 - Return a placeholder.
 - HASONEVALUE**
 - Check if exactly one value is selected in the filter context.
 - MAX**
 - Get the maximum value.
 - Placeholder
 - Dynamic text or symbols to indicate no or multiple selections.
 - Example
 - Selected Price = **IF(HASONEVALUE('lego_sets'[US_retailPrice]), MAX('lego_sets'[US_retailPrice]), "-")**
 - Field: US_retailPrice
 - Placeholder: "-"

Custom Visual

- Simple Image
 - Display images based on the images URL.
- Display images when on hover each row in the table
 - Steps to create
 - Create a page called Thumbnail.
 - Page information > Page Types > Choose **Tooltip**
 - Drag Simple Image into the report canvas.
 - Select image URL as the data.
 - Adjust image scaling and alignment.
 - Hide the Thumbnail page.

Decomposition Tree

- Insert > Decomposition Tree
- Drag the necessary data into "Analyze" and "Explain by"
- Click on + sign to select how you want to split the data
 - High value / Low value / the column
- Adjust color of connectors & bars