Clone a visual

The Clone Visual API clones a specific visual into the active page of a Power BI report. You can clone a visual from any page in the report into the active page. Cloning a visual lets you make copies with different layouts or filters from the original visual.

How to clone a visual

The Power BI Client VisualDescriptor class, defines the `clone` method as:

TypeScript Copy

```
clone(request: models.ICloneVisualRequest = {}): Promise<ICloneVisualResponse>
```

In the ICloneVisualRequest interface:

- IFilter describes the filters to apply to the cloned visual.
- IVisualLayout defines the cloned visual's size and location.
- The `autoFocus` property determines whether to focus on the cloned visual after creation.

The ICloneVisualResponse interface returns the new cloned visual name or unique identifier.

JavaScript Copy

```
interface ICloneVisualRequest {
  // The filters to apply to the new visual. Default: source visual filters.
  filters?: IFilter[];

  // The layout to apply to the new visual.
  // Default: a best effort to put the new visual in an empty space on the canvas.
  layout?: IVisualLayout;

  // Focus on the new visual after creation.
  // If autoFocus is set to false, no scrolling will occur.
  // Default: true.
autoFocus?: boolean;
}  interface
ICloneVisualResponse {
  // New visual name.
visualName: string;
}
```

To get a list of all visuals in a report, use the getVisuals method of the `Page` class.

Examples

The first code example clones a visual with default settings. The position and size of the new visual represent a best effort to put a visual into an empty space on the canvas. To specify position and size, use the second example.

JavaScript Copy

```javascript
let clonedVisual = await visual.clone();
console.log(clonedVisual.name);
```

The second example clones to a new visual with a specific layout, and doesn't focus on the new visual after creation.

JavaScript Copy

```javascript
let cloneRequest =
{        layout: {
height: 300,
width: 600,
x: 150,                y:
250
        },
autoFocus: false
    };        let clonedVisual = await
visual.clone(cloneRequest);
console.log(clonedVisual.name);
```

The third code example clones to a new visual with a specific layout and new filters.

JavaScript Copy

```
    const basicFilter = {
        $schema: "http://powerbi.com/product/schema#basic",
target: {            table: "Store",            column: "Count"
        },          operator: "In",         values:
[1, 2, 3, 4],          filterType:
models.FilterType.BasicFilter
    };          let cloneRequest = {
layout: { x: 150, y: 250 },
filters: [basicFilter]
    };          let clonedVisual = await
visual.clone(cloneRequest);
console.log(clonedVisual.name);
```

Limitations

You can clone a visual only if the report is fully rendered, so wait on the `rendered` event before you call the Clone Visual API.

Next steps

Get pages and visuals

Control report filters

Personalize a report layout

Report authoring overview