

# Currency conversion switch

## What you'll need:

1. Data model with currency table
2. Add currency to formulas
3. Add filter for currency name column
4. BloX switch template
5. Custom JS on switch

### 1. Data model with currency table

- The currency table has dates corresponding to those in other tables
- One date-row per currency
- The main currency has rate = 1

### 2. Add currency to formulas

- The value needs to be multiplied by the rate
- Add the symbol for the main currency

### 3. Add filter for currency name column

- The dashboard needs a filter for the unique currency names
- This filter will be changed with the switch

### 4. BloX switch template (JSON)

```
1. {
2.   "style": ".switch:hover {background-color:#D9D9D9 !important;} .switch.active {background-
   color:#A4BE71 !important;} #switch-btn.active {margin-left:24px !important;}",
3.   "script": "",
4.   "title": "",
5.   "titleStyle": [
6.     {
7.       "display": "none"
8.     }
9.   ],
10.  "showCarousel": false,
11.  "body": [
12.    {
13.      "type": "TextBlock",
14.      "id": "",
15.      "class": "",
16.      "text": "Currency convertor",
17.      "style": {
18.        "text-align": "center",
19.        "font-size": 25,
20.        "padding": "23px 0px 0px 0px"
21.      }
22.    },
23.    {
24.      "type": "Container",
25.      "style": {
26.        "max-width": "135px",
27.        "margin": "0px auto",
28.        "padding": "20px 0px 10px 0px"
29.      },
30.      "items": [
31.        {
32.          "type": "ColumnSet",
33.          "columns": [
34.            {
35.              "type": "Column",
36.              "items": [
```

```

37.         {
38.             "type": "TextBlock",
39.             "text": "USD"
40.         }
41.     ]
42. },
43.     {
44.         "type": "Column",
45.         "items": [
46.             {
47.                 "type": "TextBlock",
48.                 "text": "<div id='switch-btn' class='' style='float:left;
margin-left: 0px; box-shadow: 1px 1px 3px rgba(0,0,0,0.15); margin-top:-1px; width:19px;
height:19px; background: rgb(242,242,242); background: linear-gradient(0deg,
rgba(242,242,242,1) 0%, rgba(255,255,255,1) 100%); border: 1px solid #dedede; border-
radius:10px; transition: all ease 0.2s;'></div>",
49.                 "class": "switch",
50.                 "id": "switch",
51.                 "style": {
52.                     "background-color": "#F2F2F2",
53.                     "height": "18px",
54.                     "width": "42px",
55.                     "border-radius": "10px",
56.                     "cursor": "pointer",
57.                     "overflow": "visible",
58.                     "margin": "0 10px"
59.                 }
60.             }
61.         ]
62.     },
63.     {
64.         "type": "Column",
65.         "items": [
66.             {
67.                 "type": "TextBlock",
68.                 "text": "GBP"
69.             }
70.         ]
71.     }
72. ]
73. }
74. ],
75. },
76. {
77.     "type": "Container",
78.     "items": [
79.         {
80.             "type": "TextBlock",
81.             "spacing": "extraLarge",
82.             "separator": false,
83.             "id": "intext-list",
84.             "text": " ",
85.             "wrap": true
86.         }
87.     ]
88. },
89. ],
90. "actions": []
91. }
92.
93.

```

## 5. Custom JavaScript on switch

```

1. widget.on('ready', function(sender, event) {
2.
3.     $('#switch').click(function() {
4.         $(this).toggleClass('active');
5.         $('#switch-btn').toggleClass('active');
6.
7.         if($('#switch-btn').hasClass('active')){
8.             prism.activeDashboard.filters.$$items.forEach(function(f){
9.                 if(f.jaql.column == 'ConversionCurrency'){ // Currency name column
10.                    f.jaql.filter.members[0] = 'GBP'; // Currency name
11.                    prism.activeDashboard.filters.update();
12.                    prism.activeDashboard.widgets.$$widgets.forEach(function(w){
13.                        if(w.title != ""){

```

```

14.         w.metadata.panels.forEach(function(p){
15.             if(p.name == "values" || p.name == "value"){
16.                 if(typeof p.items[0] != 'undefined'){
17.                     if(typeof p.items[0].format.mask.currency != 'undefined'){
18.                         p.items[0].format.mask.currency.symbol = "£"; // Currency
19.                         symbol
20.                     }
21.                 }
22.             })
23.             w.refresh();
24.         }
25.     })
26. }
27. })
28. }else{
29.     prism.activeDashboard.filters.$$items.forEach(function(f){
30.         if(f.jaql.column == 'ConversionCurrency'){ // Currency name column
31.             f.jaql.filter.members[0] = 'USD'; // Currency name
32.             prism.activeDashboard.filters.update();
33.             prism.activeDashboard.widgets.$$widgets.forEach(function(w){
34.                 if(w.title != ""){
35.                     w.metadata.panels.forEach(function(p){
36.                         if(p.name == "values" || p.name == "value"){
37.                             if(typeof p.items[0] != 'undefined'){
38.                                 if(typeof p.items[0].format.mask.currency != 'undefined'){
39.
40.                                     console.log(w.type,p.items[0].format.mask.currency.symbol)
41.                                     p.items[0].format.mask.currency.symbol = "$"; // Currency
42.                                     symbol
43.                                 }
44.                             }
45.                         })
46.                         w.refresh();
47.                     }
48.                 })
49.             })
50.         }/**/
51.     })
52. })
53. });
54.

```