水球图

С

```
from pyecharts import options as opts
from pyecharts.charts import Funnel
from pyecharts.faker import Faker

c = (
    Funnel()
    .add("商品", [list(z) for z in zip(Faker.choose(), Faker.values())])
    .set_global_opts(title_opts=opts.TitleOpts(title="Funnel-基本示例"))
    .render_notebook()
)
```

漏斗图

from pyecharts import options as opts from pyecharts.charts import Gauge

/

```
c = (
        Gauge()
        .add(
                 "业务指标",
[("完成率", 55.5)],
split_number= 5, # 分割段数
axisline_opts=opts.AxisLineOpts(
                          linestyle_opts=opts.LineStyleOpts(
                                  color=[(0.3, "#67e0e3"), (0.7, "#37a2da"), (1, "#fd666d")], width=30
                 ),
                                     detail_label_opts = opts.GaugeDetailOpts(
                                                                   formatter="{value}%",
                                                                    border_color = 'red',
border_width = 1,
                                                                   font_size = 30,
                                                                  offset_center= [0, "40%"]
         . \ {\tt set\_global\_opts} (
                 title_opts=opts. TitleOpts(title="Gauge-不同颜色"),
                 legend_opts=opts.LegendOpts(is_show=False),
        .render_notebook()
```

```
# 日历图
```

```
import datetime
import random
from \ pyecharts \ import \ options \ as \ opts
from pyecharts.charts import Calendar
begin = datetime.date(2017, 1, 1)
end = datetime.date(2017, 12, 31)
data = [
      [str(begin + datetime.timedelta(days=i)), random.randint(1000, 25000)]
       for i in range((end - begin).days + 1)
]
       Calendar()
       .add("", data, calendar_opts=opts.CalendarOpts(range_="2017"))
       .set_global_opts(
              title_opts=opts.TitleOpts(title="Calendar-2017年微信步数情况"),
               visualmap_opts=opts.VisualMapOpts(
                      max_=20000,
                      min_=500,
                      orient="horizontal",
                      is_piecewise=True, # # 是否为分段型
                      pos_top="230px",
                      pos_left="100px",
              ),
       .render_notebook()
)
print(data)
С
     [['2017-01-01', 9225], ['2017-01-02', 17428], ['2017-01-03', 14104], ['2017-01-04', 4744], [':
```

```
# 饼图
```

```
from pyecharts import options as opts
from pyecharts.charts import Pie
from pyecharts.faker import Faker

c = (
    Pie()
    .add("", [list(z) for z in zip(Faker.choose(), Faker.values())])
    .set_global_opts(title_opts=opts.TitleOpts(title="Pie-基本示例"))
    .set_series_opts(label_opts=opts.LabelOpts(formatter="(b): {c}"))
    .render_notebook()
)

print([list(z) for z in zip(Faker.choose(), Faker.values())])

c
    [['衬衫', 118], ['毛衣', 109], ['领带', 70], ['裤子', 76], ['风衣', 81], ['高跟鞋', 80], ['袜
```

设置饼图颜色

```
from pyecharts import options as opts
from pyecharts.charts import Pie
from pyecharts.faker import Faker

c = (
    Pie()
    .add("", [list(z) for z in zip(Faker.choose(), Faker.values())])
    .set_colors(["blue", "green", "yellow", "red", "pink", "orange", "purple"])
    .set_global_opts(title_opts=opts.TitleOpts(title="Pie-设置颜色"))
    .set_series_opts(label_opts=opts.LabelOpts(formatter="{b}: {c}"))
    .render_notebook()
)
```

```
# 定制饼图
import pyecharts.options as opts
from pyecharts charts import Pie
x_data = ["直接访问", "邮件营销", "联盟广告", "视频广告", "搜索引擎"]
y_data = [335, 310, 274, 235, 400]
data_pair = [list(z) for z in zip(x_data, y_data)]
data_pair.sort(key=lambda x: x[1]) # 根据 列表的死一个索引进行排序
        Pie(init_opts=opts.InitOpts(width="800px", height="400px", bg_color="#2c343c"))
        .add(
                  series_name="访问来源",
                 data_pair=data_pair,
                 rosetype="radius",
                 radius="55%",
                 center=["50%", "50%"],
         .set_global_opts(
                 title_opts=opts.TitleOpts(
                         title="Customized Pie",
                          pos_left="center",
                          pos_top="20",
                          title_textstyle_opts=opts.TextStyleOpts(color="yellow"), # #fff
                 legend_opts=opts.LegendOpts(is_show=False),
         . \, {\tt set\_series\_opts} \, (
                 tooltip_opts=opts.TooltipOpts(
                          trigger="item", formatter="{a} <br/> <br/> {b}: {c} ({d}%)" # {a}:系列名。# {b}:数据名。# {c}:数据值。
                 label_opts=opts.LabelOpts(color="white"), # rgba(255, 255, 255, 0.3) grey
         . \ {\tt render\_notebook} \, ()
print(data_pair)
```

[['视频广告', 235], ['联盟广告', 274], ['邮件营销', 310], ['直接访问', 335], ['搜索引擎', 400

```
from pyecharts.charts import Pie
x_{data} = ["直接访问", "邮件营销", "联盟广告", "视频广告", "搜索引擎"] y_data = [335, 310, 234, 135, 1548]
c = (
          Pie(init_opts=opts.InitOpts(width="800px", height="400px"))
          .add(
                    series_name="访问来源",
                    data_pair=[list(z) for z in zip(x_data, y_data)], radius=["50%", "70%"], # 内半径和外半径
                    label\_opts = opts. \ Label Opts (is\_show = False, \quad position = "center") \text{,}
          )
          . \ \mathtt{set\_global\_opts} \ (\mathtt{legend\_opts=opts}. \ \mathtt{Legend0pts} \ (\mathtt{pos\_left="legft"}, \quad \mathtt{orient="vertical"}))
          .set_series_opts(
                   tooltip_opts=opts.TooltipOpts(
                             trigger="item", formatter="{a} \langle br/\rangle \{b\}: {c} ({d}%)"
                     \mbox{$\#$ label_opts=opts.LabelOpts(formatter="\{b\}: \ \{c\}")$ } 
          . \ {\tt render\_notebook} \, ()
)
С
```

 $import \quad pyecharts. \, options \quad as \quad opts \\$

```
# Pie_rosetype 玫瑰图
from pyecharts import options as opts
from pyecharts.charts import Pie
from pyecharts.faker import Faker
v = Faker.choose()
c = (
         Pie()
         .add(
                   [list(z) for z in zip(v, Faker.values())], radius=["30%", "75%"], center=["25%", "50%"],
                   rosetype="radius",
                   label_opts=opts.LabelOpts(is_show=False),
         )
         .add(
                  ,
[list(z) for z in zip(v, Faker.values())],
radius=["30%", "75%"],
center=["75%", "50%"],
rosetype="area",
         .set_global_opts(title_opts=opts.TitleOpts(title="Pie-玫瑰图示例"))
         . \ {\tt render\_notebook} \, ()
```

箱型图

```
from pyecharts import options as opts
from \quad pyecharts. \, charts \quad import \quad Boxplot
v1 = [
       [850, 740, 900, 1070, 930, 850, 950, 980, 980, 880, 1000, 980],
       [960, 940, 960, 940, 880, 800, 850, 880, 900, 840, 830, 790],
v2 = [
       [890, 810, 810, 820, 800, 770, 760, 740, 750, 760, 910, 920],
       [890, 840,
                   780,
                         810, 760, 810,
                                          790,
                                               810,
                                                     820,
                                                           850,
                                                                870,
                                                                      870],
]
c = Boxplot()
c.add_xaxis(["expr1", "expr2"])
c.add_yaxis("A", c.prepare_data(v1))
c.add_yaxis("B", c.prepare_data(v2))
c.set_global_opts(title_opts=opts.TitleOpts(title="BoxPlot-基本示例"))
c.render_notebook()
# c.prepare_data(v1)
```

```
# 象形柱状图
from pyecharts import options as opts
from pyecharts.charts import PictorialBar
location = ["山西", "四川", "西藏", "北京", "上海", "内蒙古", "云南", "黑龙江", "广东", "福建"] values = [13, 42, 67, 81, 86, 94, 166, 220, 249, 262]
        PictorialBar()
        .add_xaxis(location)
        .add_yaxis(
                values,
                label_opts=opts.LabelOpts(is_show=False),
                symbol_size=18,
                symbol_repeat=True,
                is_symbol_clip=True,
        .reversal_axis()
        . \ \mathtt{set\_global\_opts} (
                title_opts=opts. TitleOpts(title="PictorialBar-各省份人口数量(虚假数据)"),
                xaxis_opts=opts.AxisOpts(is_show=False),
                yaxis_opts=opts.AxisOpts(
                        axistick_opts=opts.AxisTickOpts(is_show=False),
                        axisline_opts=opts.AxisLineOpts(
                                linestyle_opts=opts.LineStyleOpts(opacity=0)
                        ),
                ),
        .render_notebook()
```

```
import pyecharts.options as opts
from pyecharts.charts import Bar, Line
bar = (
      Bar(init_opts=opts.InitOpts(width="800px", height="400px"))
      .add_xaxis(xaxis_data=x_data)
      .add_yaxis(
             series_name="蒸发量",
             y_axis=[
                    2.0,
                    4.9,
                    7.0,
                    23. 2,
                    25.6,
                    76.7,
                     135.6,
                     162.2,
                    32.6,
                    20.0,
                    6.4,
                    3.3,
             label_opts=opts.LabelOpts(is_show=False),
       .add_yaxis(
             series_name="降水量",
             y_axis=[
                    2.6,
                    5.9,
                    9.0,
                    26.4,
                    28.7,
                     70.7,
                    175.6,
                     182.2,
                     48.7,
                    18.8,
                    6.0,
                    2.3,
             label_opts=opts.LabelOpts(is_show=False),
       )
       .extend axis(
             yaxis=opts.AxisOpts(
                    name="温度",
                    type_="value",
min_=0,
                    max_=25,
                    interval=5,
                    )
       .set_global_opts(
             # 提示框设置
             tooltip_opts=opts.TooltipOpts(
                    is_show=True, trigger="axis", axis_pointer_type="cross"
              xaxis_opts=opts.AxisOpts(
                    type_="category",
                    axispointer_opts=opts.AxisPointerOpts(
                           is_show=True, type_="shadow"),
             ),
              yaxis_opts=opts.AxisOpts(
                    name="水量",
                    type_="value",
                    min_=0,
                    max =250,
                    interval=50,
                    axislabel_opts=opts.LabelOpts(formatter="{value} m1"),
             ),
      )
)
# 折线图
line = (
```

地理图 geography