

data_presentation

October 22, 2022

```
[ ]: import index_data
import ipywidgets as widgets
```

```
[ ]: period_type = widgets.Dropdown(
    description = 'Period Type:',
    options = ['Months', 'Years'],
    value = 'Months',
    style = {'description_width': 'initial'}
)
```

```
period_length = widgets.IntSlider(
    description = 'Length of Period:',
    min = 1,
    max = 60,
    step = 1,
    value = 1,
    style = {'description_width': 'initial'}
)
```

```
starting_cash = widgets.BoundedIntText(
    description = 'How much would you like to initially invest?',
    min = 1,
    max = 50000,
    step = 0.1,
    value = 50,
    style = {'description_width': 'initial'}
)
```

```
display(period_type, period_length, starting_cash) #type:ignore
```

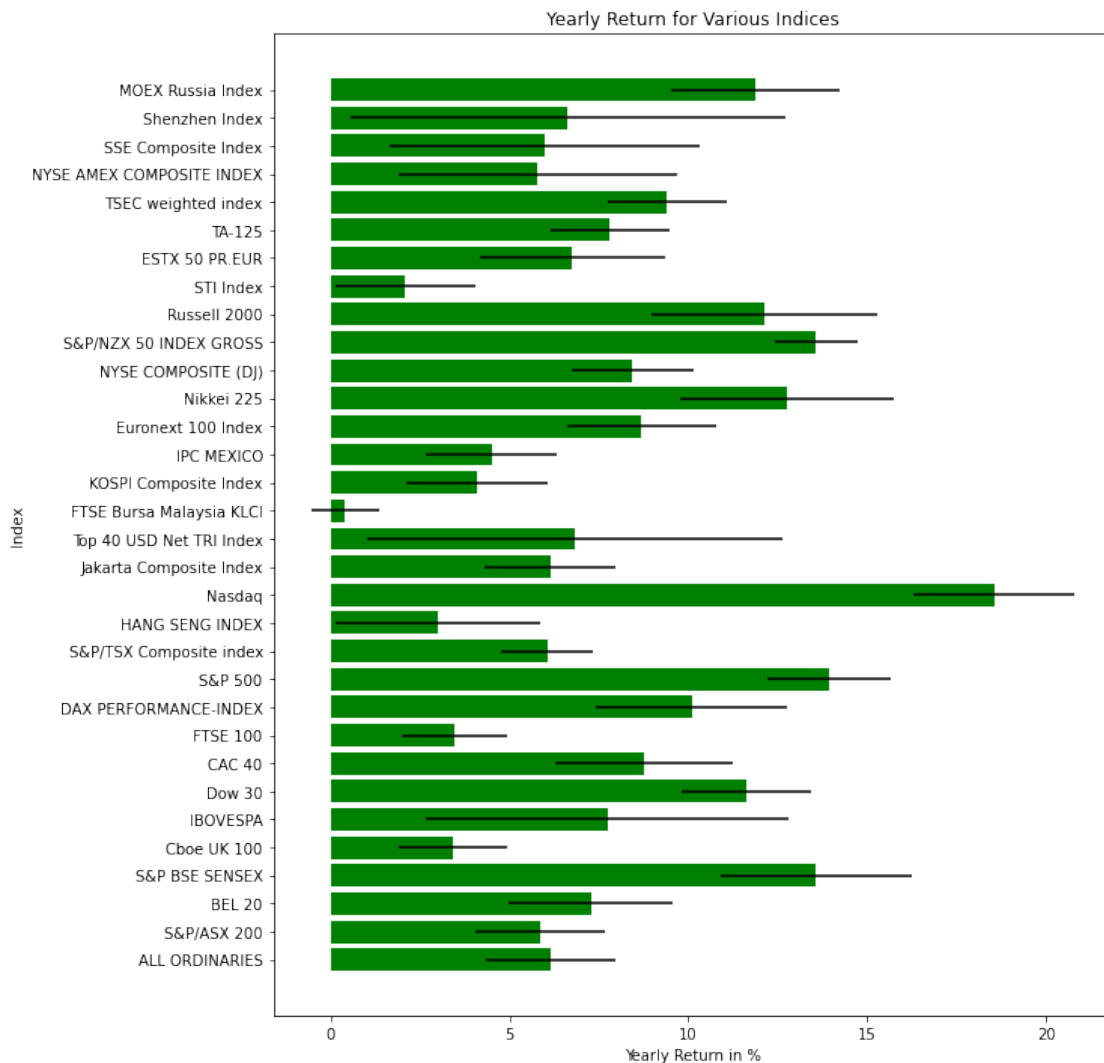
```
Dropdown(description='Period Type:', options=('Months', 'Years'),
    style=DescriptionStyle(description_width='in...
```

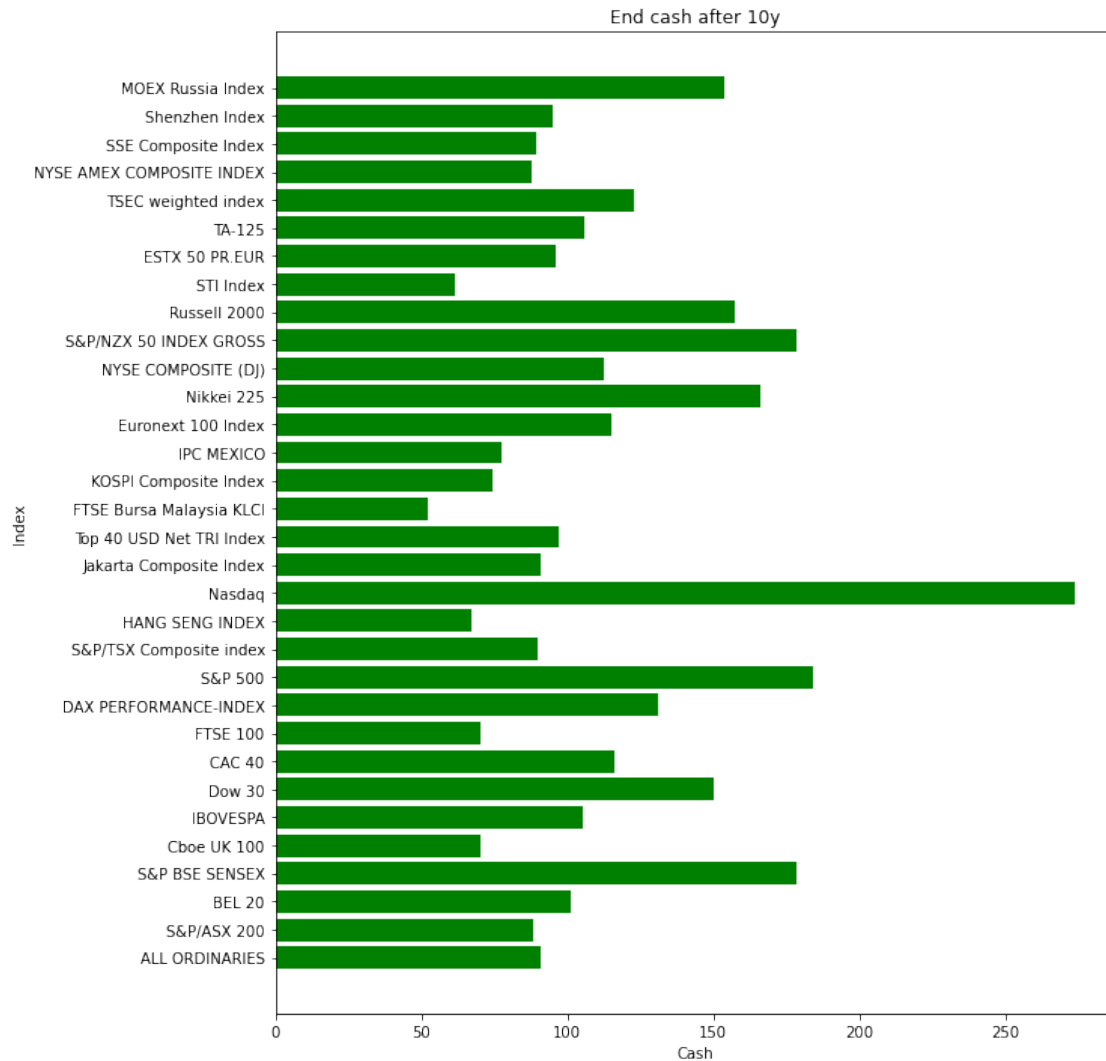
```
IntSlider(value=1, description='Length of Period:', max=60, min=1,
    style=SliderStyle(description_width='initia...
```

```
BoundedIntText(value=50, description='How much would you like to initially
    invest?', max=50000, min=1, step=0,...
```

```
[ ]: if period_type.value == "Months":
    period = str(period_length.value) + "mo"
else:
    period = str(period_length.value) + "y"
```

```
[ ]: data = index_data.gather_data()
end_money_data = index_data.end_money(starting_cash.value, period, data)
index_data.get_graph(end_money_data, period)
```



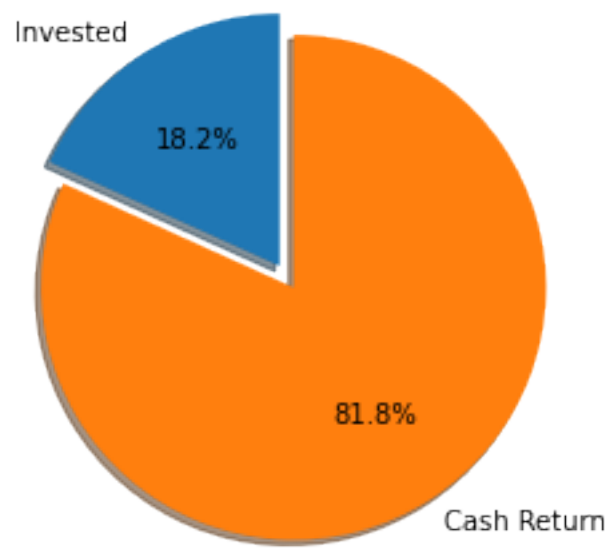


```
[ ]: index_picker = widgets.Dropdown(
    description = 'Index Details:',
    options = [index for index in data],
    style = {'description_width': 'initial'}
)

display(index_picker) #type: ignore
```

Dropdown(description='Index Details:', options=('ALL ORDINARIES', 'S&P/ASX 200', 'BEL 20', 'S&P BSE SENSEX', '...

```
[ ]: dict_index = end_money_data[index_picker.value]
df = index_data.get_index_details(dict_index, starting_cash.value)
```



```
[ ]: df
```

```
[ ]: Full Exchange Name Ticker Current Price
0    Nasdaq GIDS ^IXIC      10614.844
```