

DATA PRESENTATION

Jupyter Notebook

```
import index_data
import ipywidgets as widgets
```

[1] ✓ 2.6s

Python

```
period_type = widgets.Dropdown(
    description = 'Period Type:',
    options = ['Months', 'Years'],
    value = 'Months',
    style = {'description_width': '100px'},
    layout = widgets.Layout(width='500px')
)

period_length = widgets.IntSlider(
    description = 'Length of Period:',
    min = 1,
    max = 60,
    step = 1,
    value = 1,
    style = {'description_width': '100px'},
    layout = widgets.Layout(width='500px')
)

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': '100px'},
    layout = widgets.Layout(width='500px')
)

display(period_type, period_length, starting_cash)
```

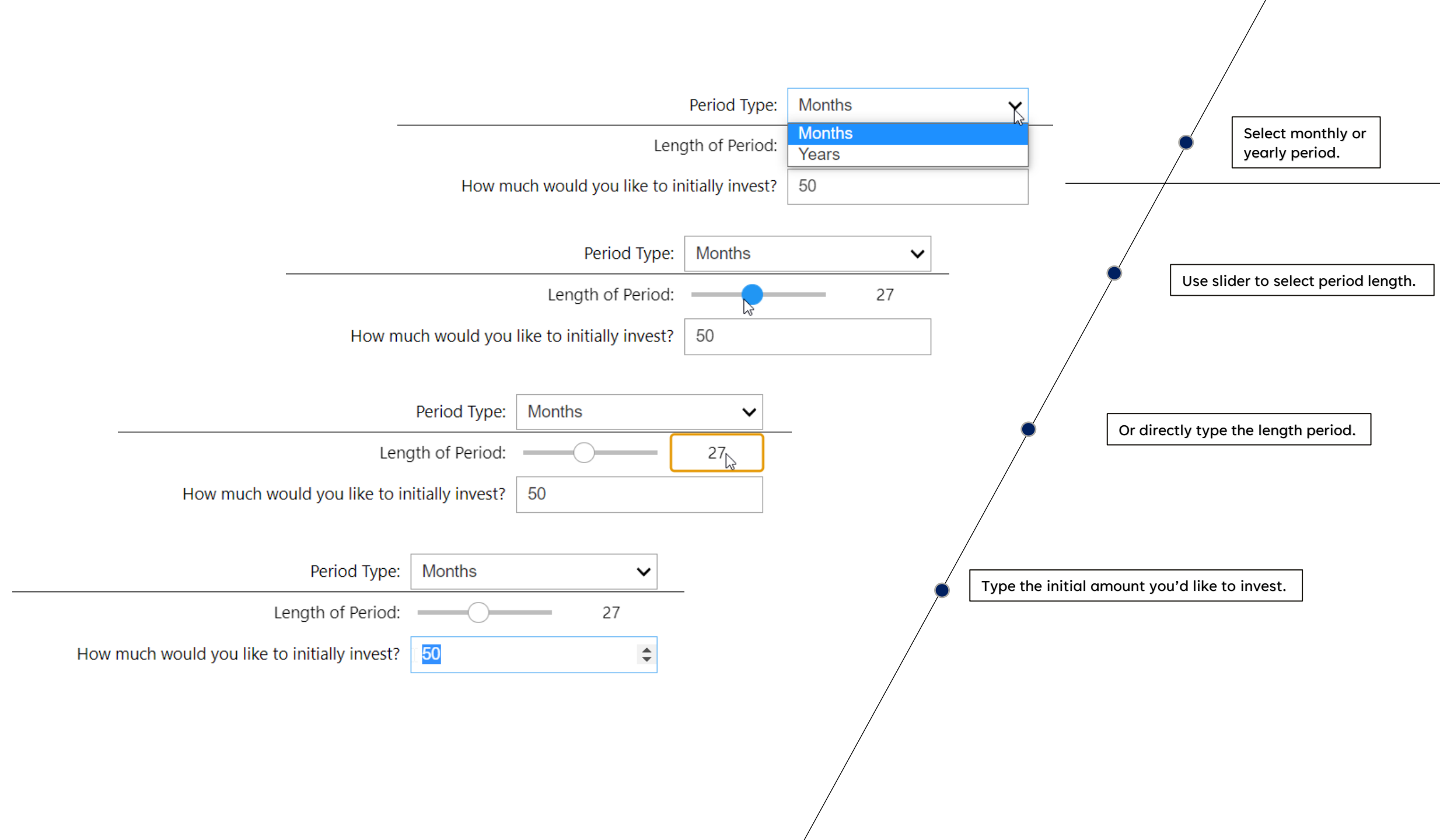
[2] ✓ 0.5s

Python

... Period Type: Years

<> Length of Period: 10

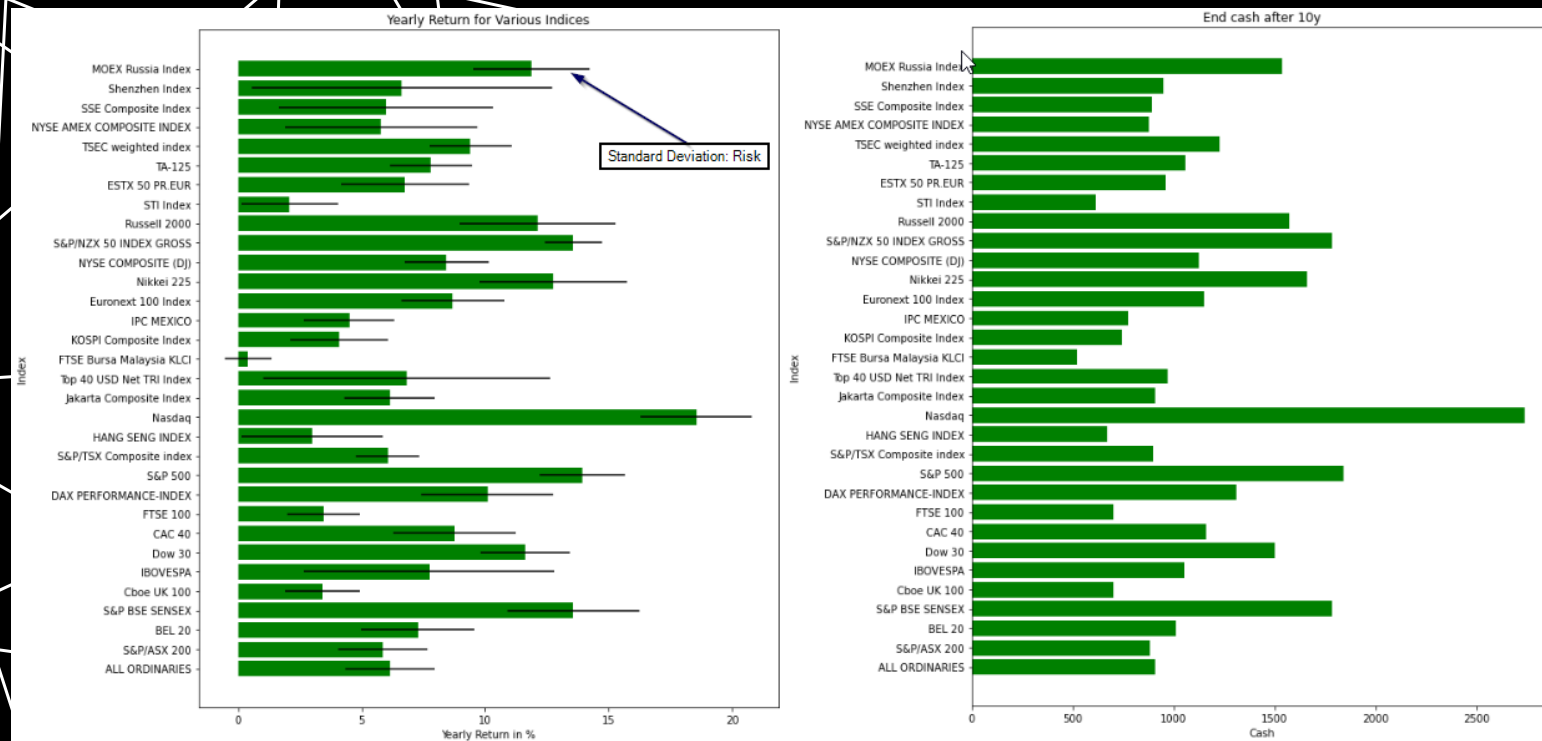
<> How much wou... 500



```
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)
```

3.1s

Python



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

display(index_picker)
```

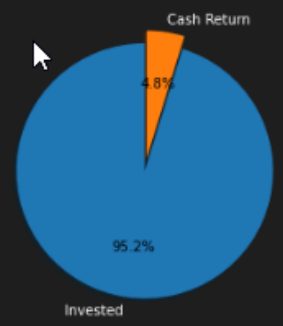
[5] ✓ 0.4s Python Python

Index Details: Nasdaq

- ALL ORDINARIES
- S&P/ASX 200
- BEL 20
- S&P BSE SENSEX
- Cboe UK 100
- IBOVESPA
- Dow 30
- CAC 40
- FTSE 100
- DAX PERFORMANCE-INDEX
- S&P 500
- S&P/TSX Composite index
- HANG SENG INDEX
- Nasdaq**
- Jakarta Composite Index
- Top 40 USD Net TRI Index
- FTSE Bursa Malaysia KLCI
- KOSPI Composite Index
- IPC MEXICO
- Euronext 100 Index

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

[18] ✓ 0.2s



✓ df ...

	Full Exchange Name	Ticker	Current Price
0	ASX	^AXJO	6730.7