

Insight into "2000_onwards" Dataset

Dataset Information

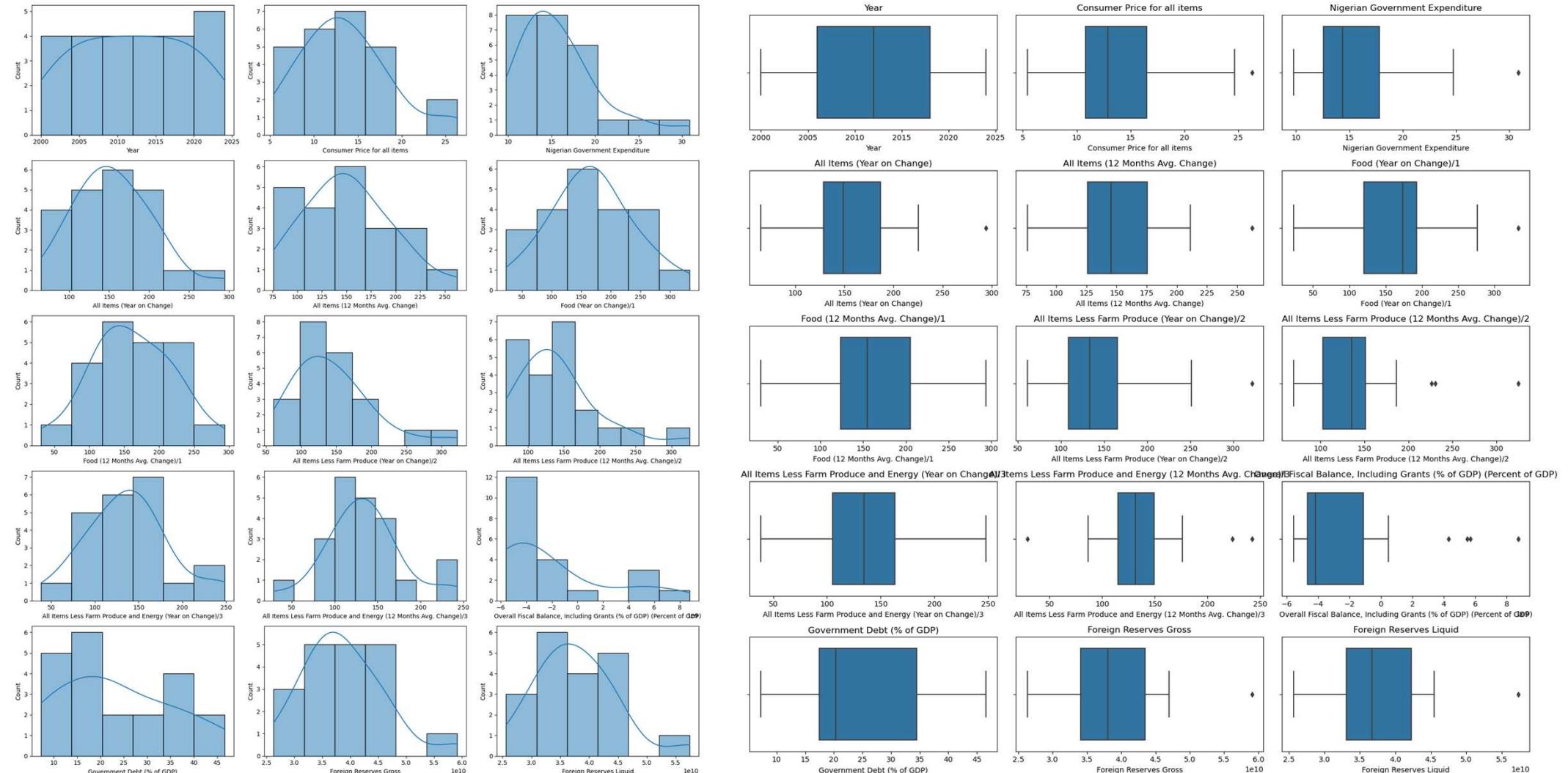
#	Column	Non-Null Count	Dtype
0	Year	25	non-null int64
1	Consumer Price for all items	25	non-null float64
2	Nigerian Government Expenditure	25	non-null float64
3	All Items (Year on Change)	22	non-null float64
4	All Items (12 Months Avg. Change)	22	non-null float64
5	Food (Year on Change)/1	22	non-null float64
6	Food (12 Months Avg. Change)/1	22	non-null float64
7	All Items Less Farm Produce (Year on Change)/2	22	non-null float64
8	All Items Less Farm Produce (12 Months Avg. Change)/2	22	non-null float64
9	All Items Less Farm Produce and Energy (Year on Change)/3	22	non-null float64
10	All Items Less Farm Produce and Energy (12 Months Avg. Change)/3	22	non-null float64
11	Overall Fiscal Balance, Including Grants (% of GDP) (Percent of GDP)	21	non-null object
12	Government Debt (% of GDP)	21	non-null float64
13	Foreign Reserves Gross	19	non-null float64
14	Foreign Reserves Liquid	19	non-null float64
dtypes: float64(13), int64(1), object(1)			

✓ Dataset Dimension: 25 * 15

Dataset Statistics

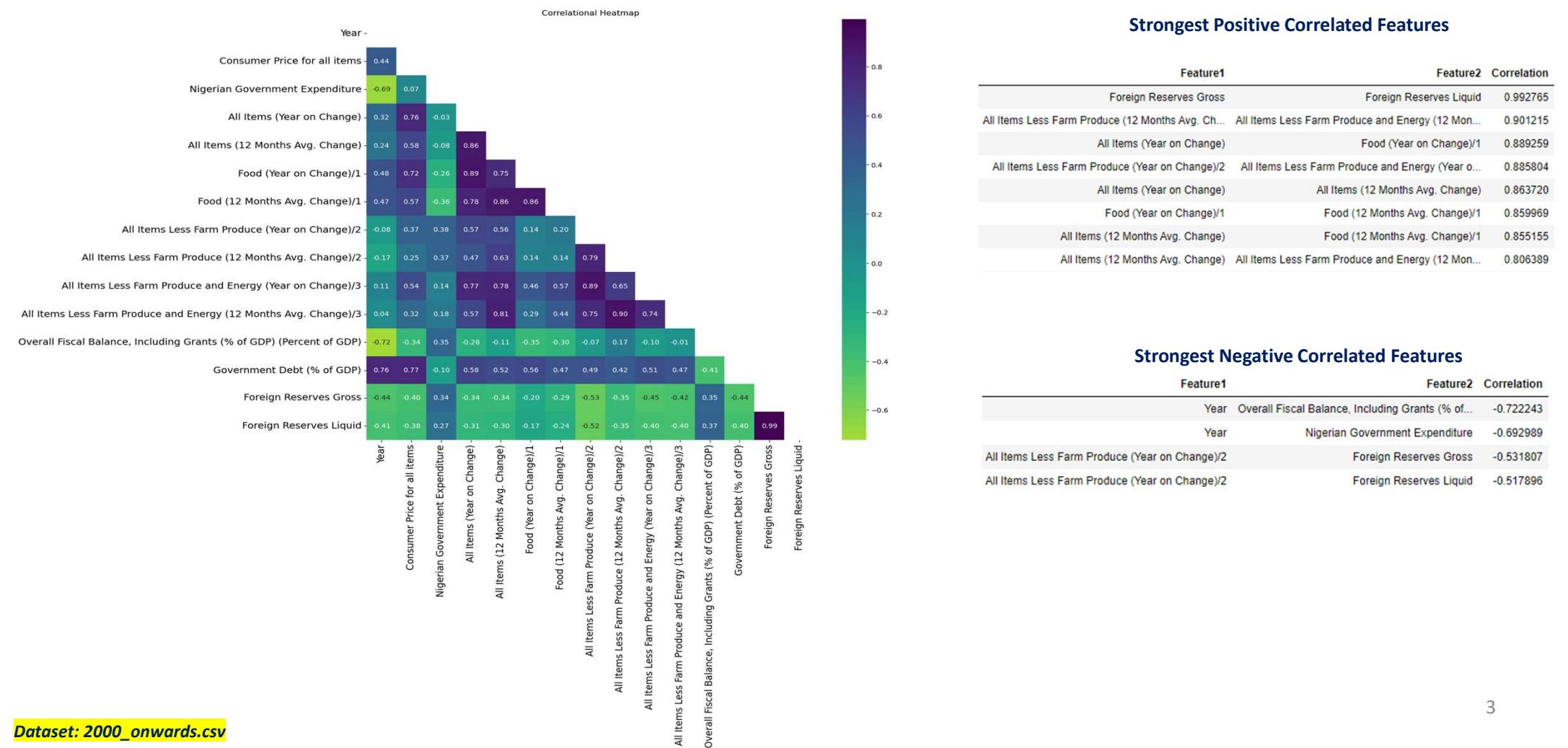
	count	mean	std	min	25%	50%	75%	max
Year	25.0	2.012000e+03	7.359801e+00	2.000000e+03	2.006000e+03	2.012000e+03	2.018000e+03	2.024000e+03
Consumer Price for all items	25.0	1.365474e+01	5.101207e+00	5.401359e+00	1.082524e+01	1.288266e+01	1.650205e+01	2.631121e+01
Nigerian Government Expenditure	25.0	1.595606e+01	4.748876e+00	9.760705e+00	1.255884e+01	1.437947e+01	1.781188e+01	3.085716e+01
All Items (Year on Change)	22.0	1.567668e+02	5.153732e+01	6.500000e+01	1.289175e+02	1.490000e+02	1.867750e+02	2.942400e+02
All Items (12 Months Avg. Change)	22.0	1.519032e+02	4.496553e+01	7.590000e+01	1.259250e+02	1.453850e+02	1.752650e+02	2.624700e+02
Food (Year on Change)/1	22.0	1.682459e+02	7.189308e+01	2.300000e+01	1.200050e+02	1.739900e+02	1.929475e+02	3.330500e+02
Food (12 Months Avg. Change)/1	22.0	1.613014e+02	5.985300e+01	3.060000e+01	1.235900e+02	1.548100e+02	2.053950e+02	2.937700e+02
All Items Less Farm Produce (Year on Change)/2	22.0	1.457232e+02	5.947595e+01	6.071000e+01	1.083325e+02	1.336050e+02	1.654450e+02	3.220000e+02
All Items Less Farm Produce (12 Months Avg. Change)/2	22.0	1.430214e+02	5.843923e+01	6.930000e+01	1.027050e+02	1.355050e+02	1.514500e+02	3.251000e+02
All Items Less Farm Produce and Energy (Year on Change)/3	22.0	1.381723e+02	4.902636e+01	3.850000e+01	1.054125e+02	1.345700e+02	1.633525e+02	2.482100e+02
All Items Less Farm Produce and Energy (12 Months Avg. Change)/3	22.0	1.340673e+02	4.545371e+01	2.887000e+01	1.148175e+02	1.316150e+02	1.494875e+02	2.424000e+02
Overall Fiscal Balance, Including Grants (% of GDP) (Percent of GDP)	21.0	-1.924054e+09	4.345086e+09	-5.574536e+09	-4.690390e+09	-4.171479e+09	-1.116385e+09	8.759047e+09
Government Debt (% of GDP)	21.0	2.358929e+01	1.235369e+01	7.276108e+00	1.743077e+01	2.032834e+01	3.448595e+01	4.658836e+01
Foreign Reserves Gross	19.0	3.884120e+10	7.417513e+09	2.627975e+10	3.409886e+10	3.806873e+10	4.345620e+10	5.910312e+10
Foreign Reserves Liquid	19.0	3.777436e+10	7.121745e+09	2.562125e+10	3.305420e+10	3.671510e+10	4.223129e+10	5.738148e+10

Univariate Analysis – Histogram and Box Plots

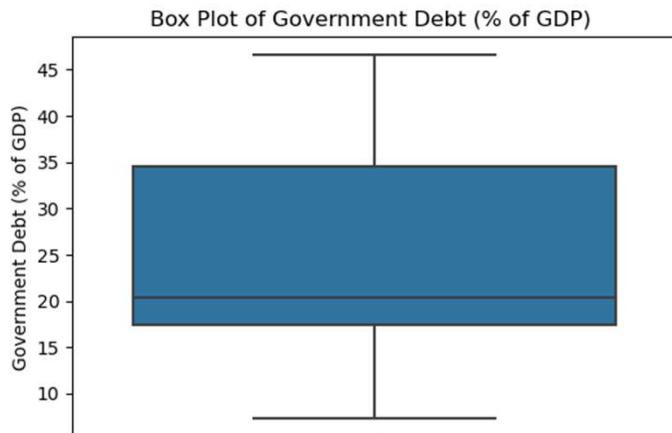
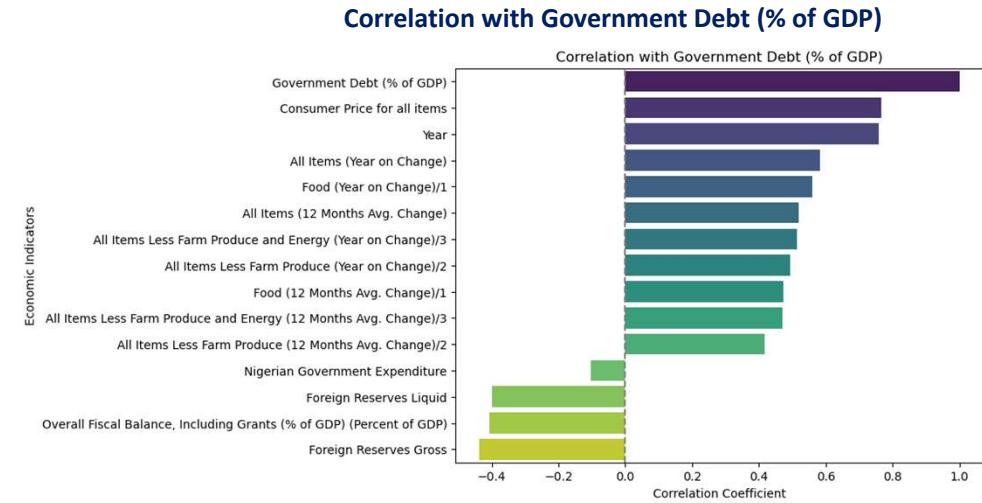
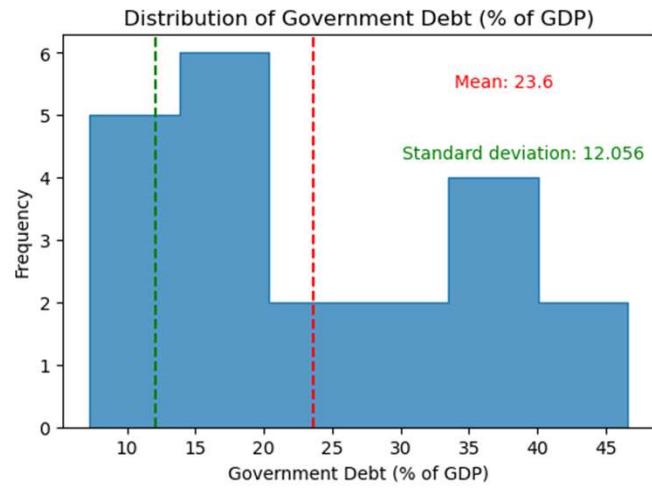


Dataset: 2000_onwards.csv

Correlation Analysis



Insight into "Government Debt (% of GDP)"

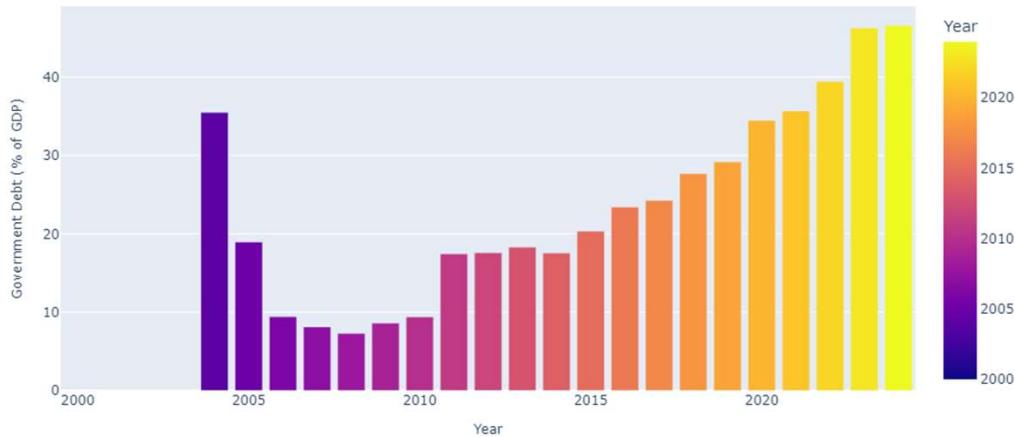


Government Debt (% of GDP)	1.00000
Consumer Price for all items	0.766155
Year	0.758910
All Items (Year on Change)	0.582073
Food (Year on Change)/1	0.559123
All Items (12 Months Avg. Change)	0.512632
All Items Less Farm Produce and Energy (Year on Change)/3	0.492232
All Items Less Farm Produce (Year on Change)/2	0.472331
Food (12 Months Avg. Change)/1	0.470770
All Items Less Farm Produce and Energy (12 Months Avg. Change)/3	0.417260
All Items Less Farm Produce (12 Months Avg. Change)/2	-0.102892
Nigerian Government Expenditure	-0.399964
Foreign Reserves Liquid	-0.406919
Overall Fiscal Balance, Including Grants (% of GDP) (Percent of GDP)	-0.436546
Foreign Reserves Gross	

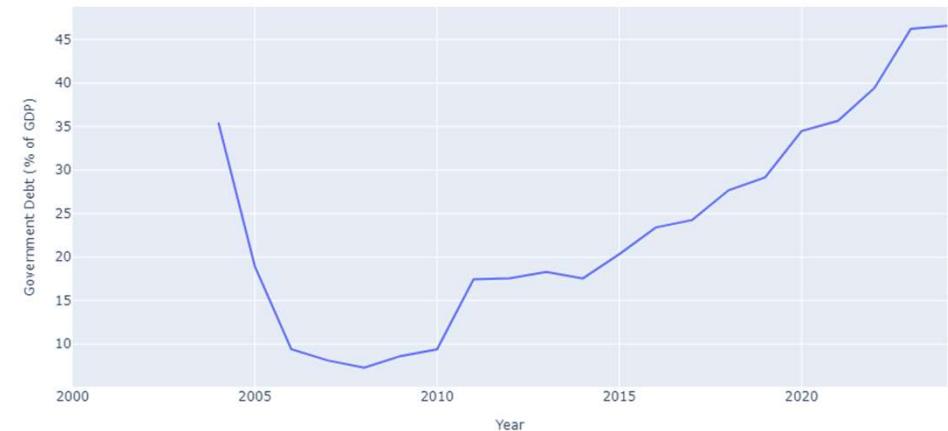
Dataset: 2000_onwards.csv

"Government Debt (% of GDP)" and "Year"

Government Debt (% of GDP) for each Year



Government Debt (% of GDP) for each Year



- ✓ In **2004**, government debt as a percentage of GDP began at **35.49%** and decreased to **18.94%** by **2005**.
- ✓ From **2006** to **2008**, there was a significant decrease in government debt relative to GDP, reaching a low of **7.28%** in **2008**.
- ✓ Debt increased slightly in **2009 (8.62%)** and showed a noticeable increase in **2010 (9.39%)** and **2011 (17.43%)** following global economic challenges.
- ✓ From **2012** onwards, government debt as a percentage of GDP generally increased steadily, with fluctuations. By **2024**, it reached approximately **46.59%**.

Significant "Government Debt (% of GDP)" Changes

Year	Government Debt (% of GDP)	Change (%)
2006	9.404121	-50.348266
2011	17.430772	85.570659

- ✓ In **2006**, there was a notable decrease in government debt relative to GDP, reducing by over **50%**, indicating substantial fiscal consolidation or reduced borrowing.
- ✓ In **2011**, There was a significant increase in government debt relative to GDP, rising by over **85%**, suggesting increased borrowing, possibly due to economic policies or higher spending needs

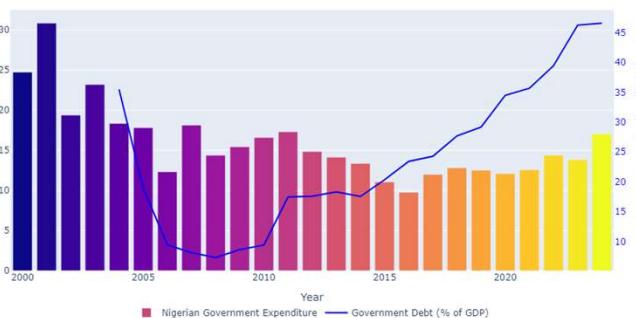
Dataset: [2000_onwards.csv](#)

Insight into "Government Debt (% of GDP)" and Economic Indicators – Bar Plots

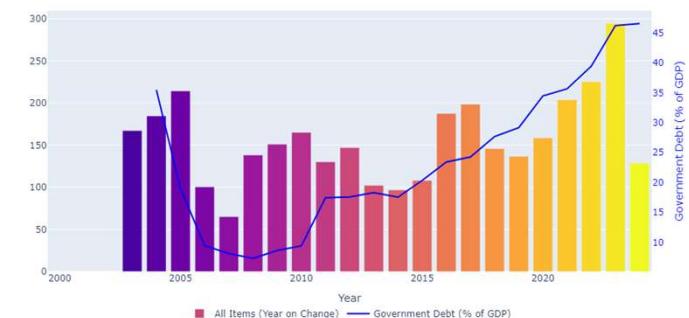
Government Debt (% of GDP) vs Consumer Price for all items



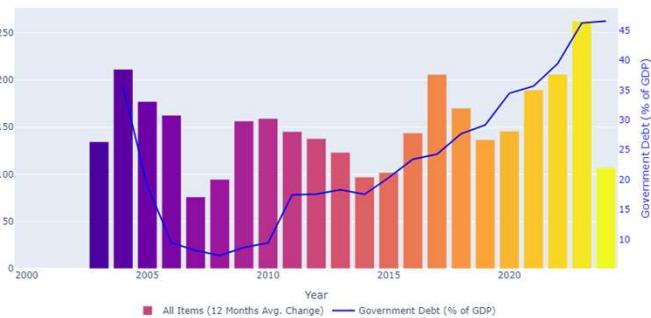
Government Debt (% of GDP) vs Nigerian Government Expenditure



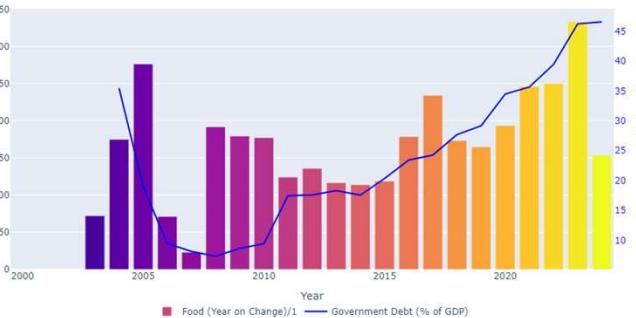
Government Debt (% of GDP) vs All Items (Year on Change)



Government Debt (% of GDP) vs All Items (12 Months Avg. Change)



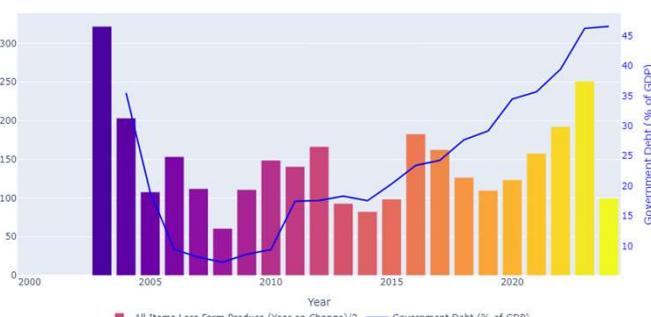
Government Debt (% of GDP) vs Food (Year on Change)/1



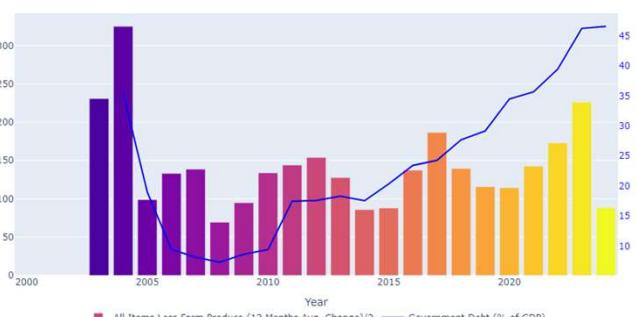
Government Debt (% of GDP) vs Food (12 Months Avg. Change)/1



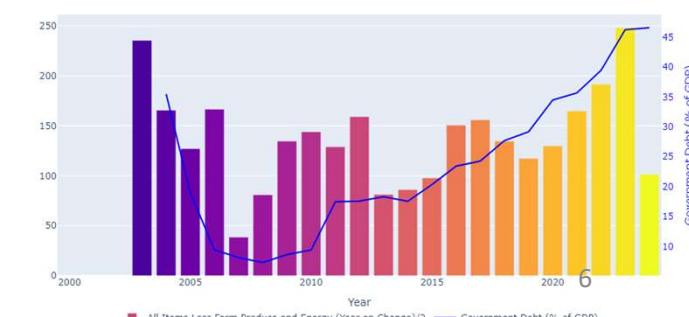
Government Debt (% of GDP) vs All Items Less Farm Produce (Year on Change)/2



Government Debt (% of GDP) vs All Items Less Farm Produce (12 Months Avg. Change)/2

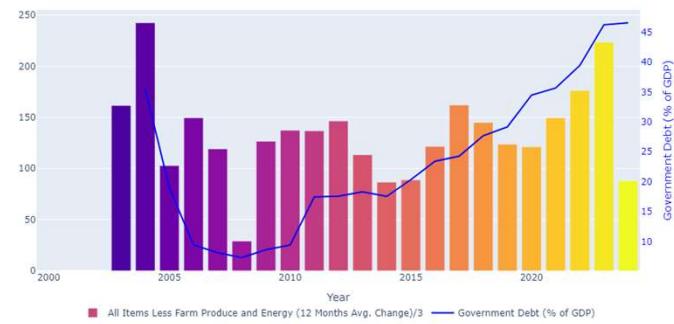


Government Debt (% of GDP) vs All Items Less Farm Produce and Energy (Year on Change)/3

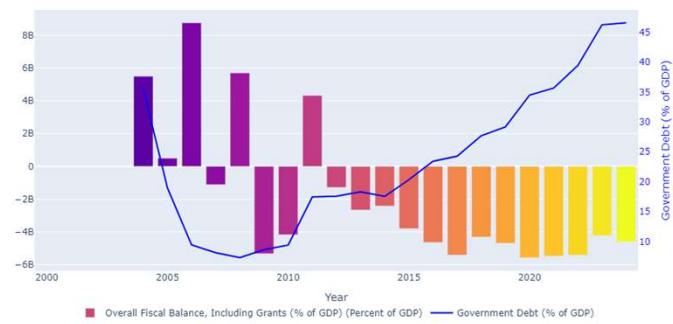


Insight into "Government Debt (% of GDP)" and Economic Indicators – Bar Plots

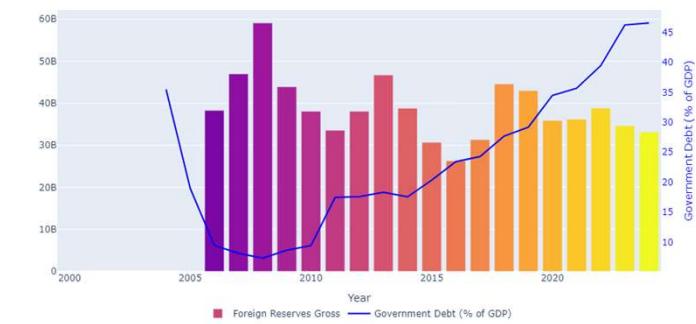
Government Debt (% of GDP) vs All Items Less Farm Produce and Energy (12 Months Avg. Change)/3



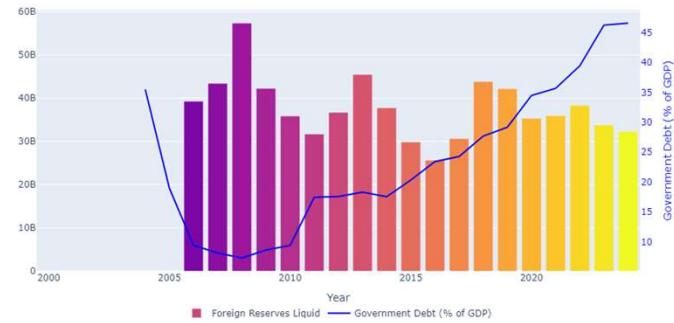
Government Debt (% of GDP) vs Overall Fiscal Balance, Including Grants (% of GDP) (Percent of GDP)



Government Debt (% of GDP) vs Foreign Reserves Gross



Government Debt (% of GDP) vs Foreign Reserves Liquid

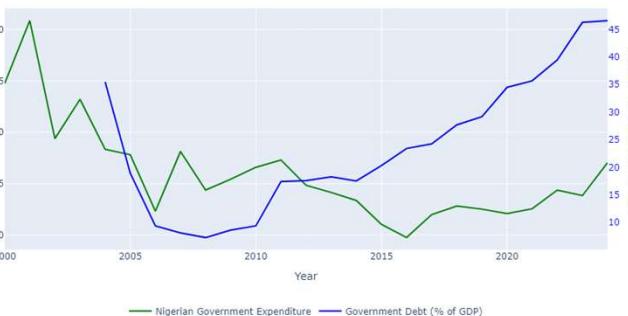


Insight into "Government Debt (% of GDP)" and Economic Indicators – Line Plots

Government Debt (% of GDP) (%) vs Consumer Price for all items



Government Debt (% of GDP) (%) vs Nigerian Government Expenditure



Government Debt (% of GDP) (%) vs All Items (Year on Change)



Government Debt (% of GDP) (%) vs All Items (12 Months Avg. Change)



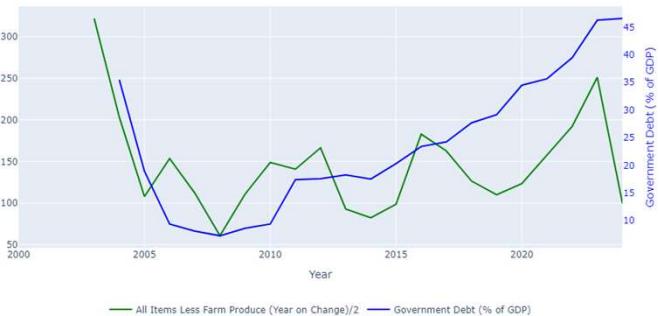
Government Debt (% of GDP) (%) vs Food (Year on Change)/1



Government Debt (% of GDP) (%) vs Food (12 Months Avg. Change)/1



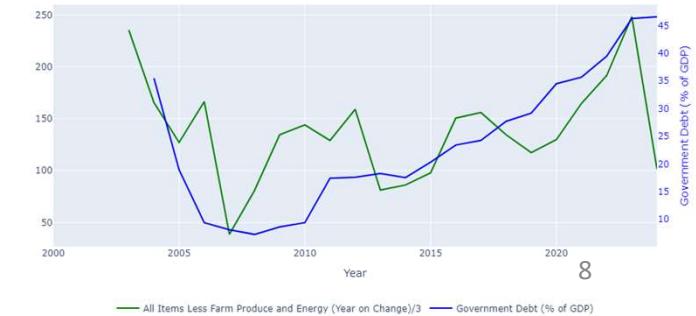
Government Debt (% of GDP) (%) vs All Items Less Farm Produce (Year on Change)/2



Government Debt (% of GDP) (%) vs All Items Less Farm Produce (12 Months Avg. Change)/2



Government Debt (% of GDP) (%) vs All Items Less Farm Produce and Energy (Year on Change)/3

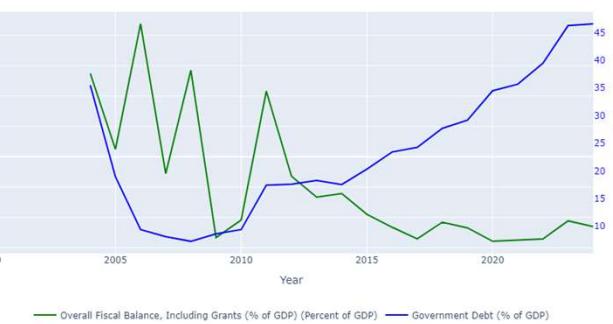


Insight into "Government Debt (% of GDP)" and Economic Indicators – Line Plots

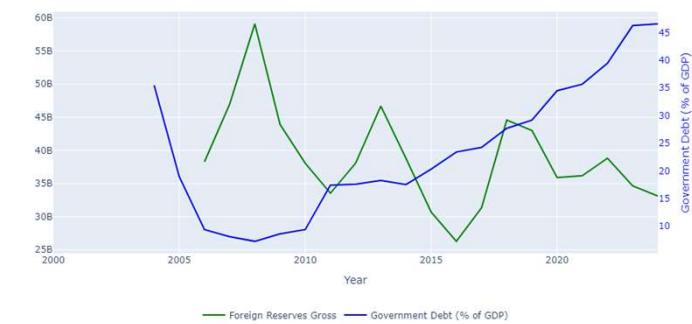
Government Debt (% of GDP) (%) vs All Items Less Farm Produce and Energy (12 Months Avg. Change)/3:



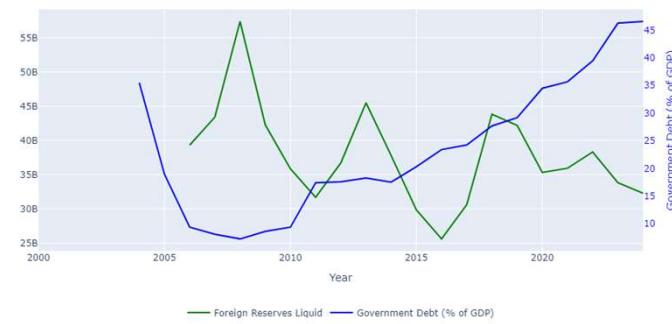
Government Debt (% of GDP) (%) vs Overall Fiscal Balance, Including Grants (% of GDP) (Percent of GDP)



Government Debt (% of GDP) (%) vs Foreign Reserves Gross



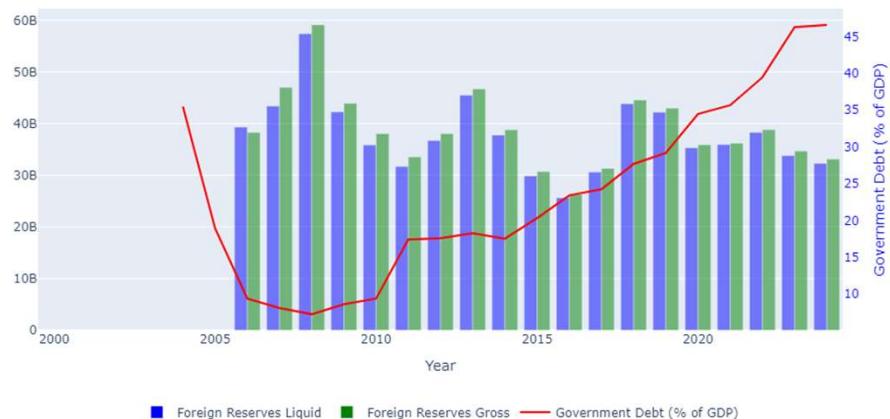
Government Debt (% of GDP) (%) vs Foreign Reserves Liquid



Insight into "Government Debt (% of GDP)" and Foreign Reserves, Food and All Items Indicators

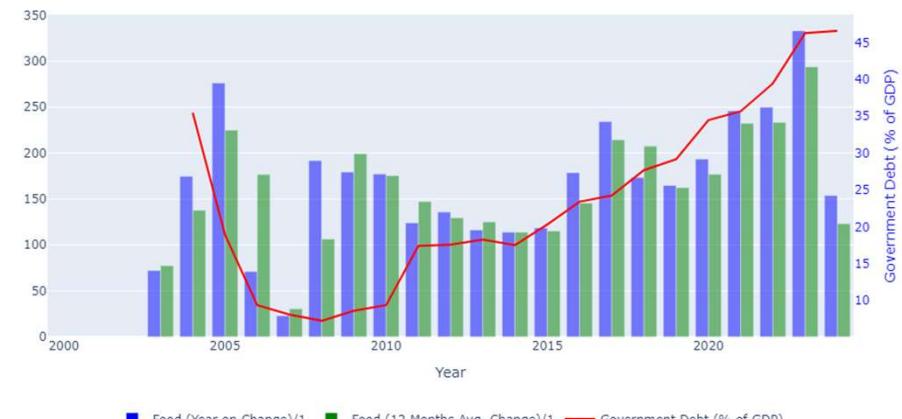
"Government Debt (% of GDP)" and Foreign Reserves

Government Debt (% of GDP) (%) vs Foreign Reserves



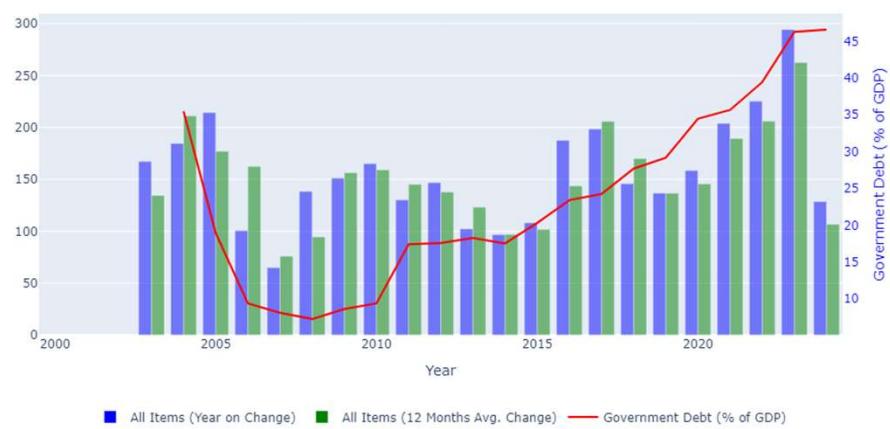
"Government Debt (% of GDP)" and Food

Government Debt (% of GDP) (%) vs Food



"Government Debt (% of GDP)" and All Items

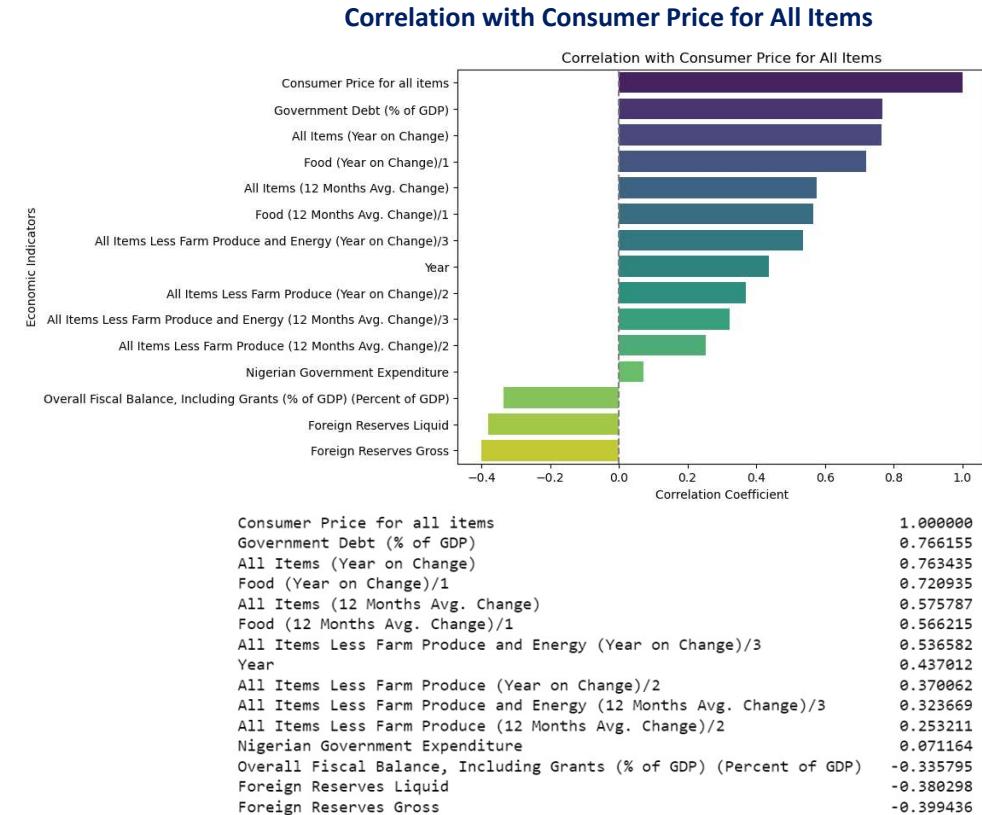
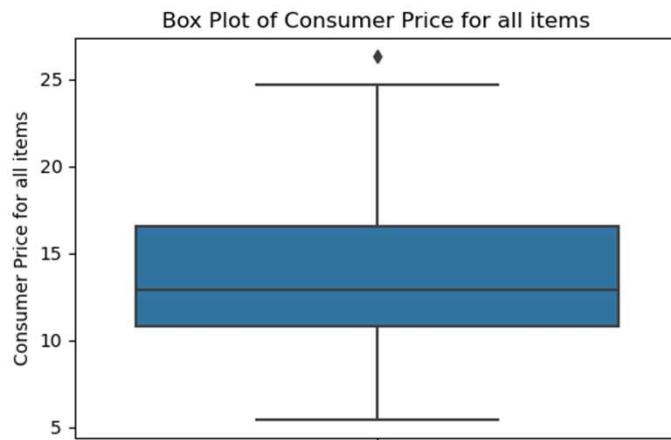
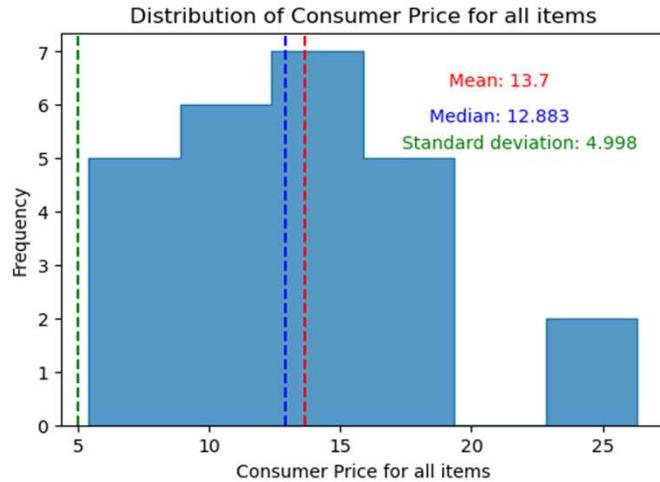
Government Debt (% of GDP) (%) vs All Items



10

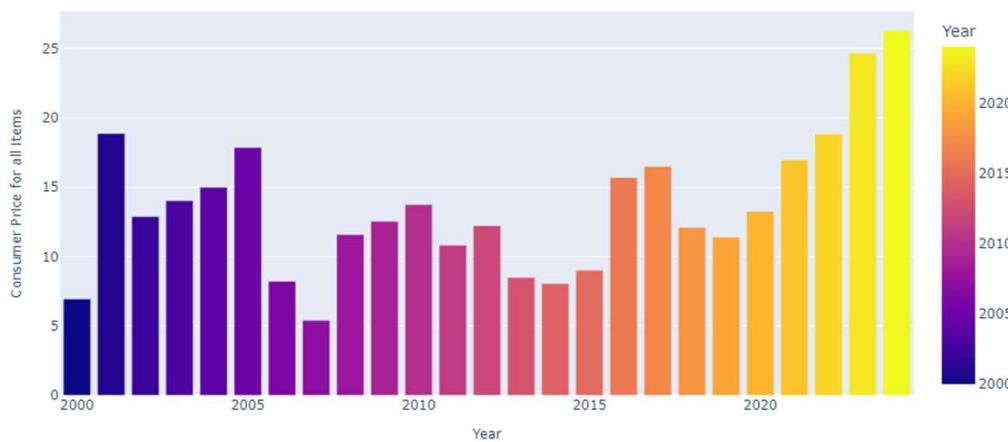
Dataset: 2000_onwards.csv

Insight into "Consumer Price for all items"

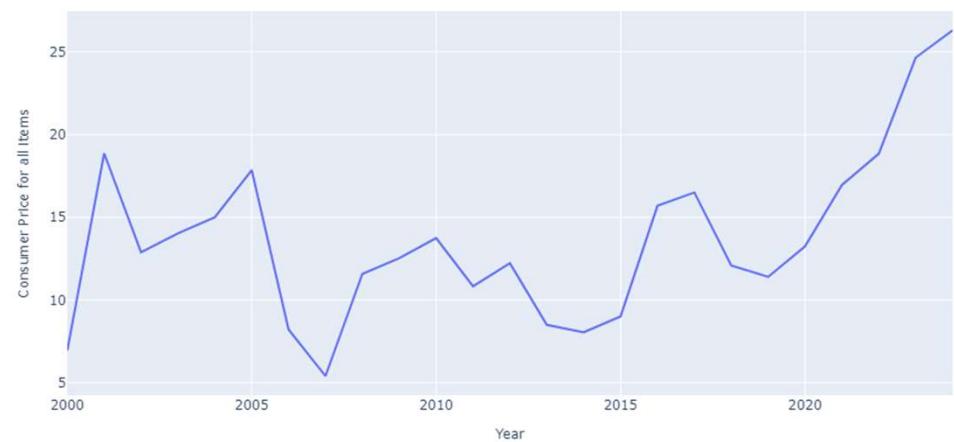


" Consumer Price for all items " and "Year"

Consumer Price for all items for each Year



Consumer Price for all items for each Year



- ✓ The data shows a fluctuating trend in the Consumer Price Index for all items from **2000** to **2024**.
- ✓ The early **2000s** experienced high inflation, peaking in **2001**.
- ✓ Mid-decade, there was a notable decrease, particularly in **2007**.
- ✓ The CPI remained relatively stable in the early **2010s** but began to rise again towards the end of the decade.
- ✓ In recent years, there has been an upward trend, with the CPI reaching its highest levels in **2023** and **2024**.

Significant "Consumer Price for all items" Changes

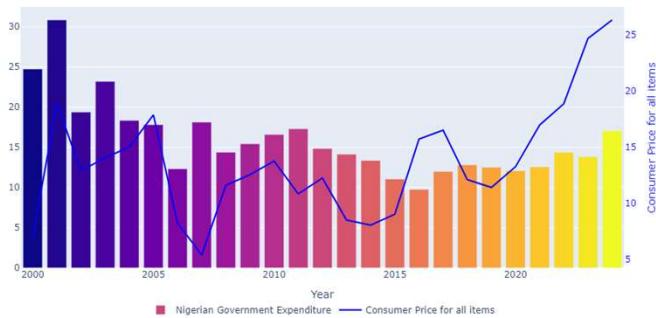
Year	Consumer Price for all items	Change (%)
2001	18.869229	171.987022
2006	8.217864	-53.977861
2008	11.581075	114.410396
2016	15.695788	74.194731

- ✓ In **2001**, the CPI surged by **171.99%**, followed by a **53.98%** decrease in **2006**.
- ✓ It spiked again by **114.41%** in **2008** and increased by **74.19%** in **2016**.
- ✓ These changes highlight periods of sharp inflation spikes and reductions, indicating considerable volatility in consumer prices over the years

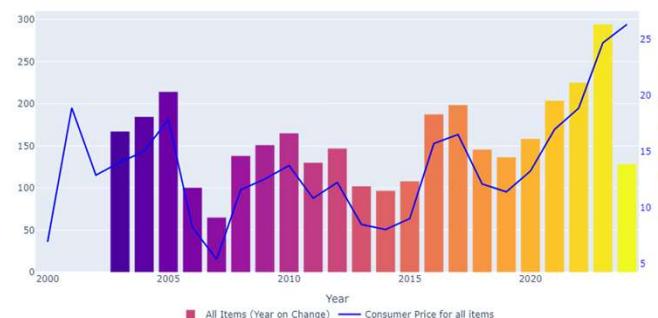
Dataset: 2000_onwards.csv

Insight into "Consumer Price for all items" and Economic Indicators – Bar Plots

Consumer Price for all Items vs Nigerian Government Expenditure



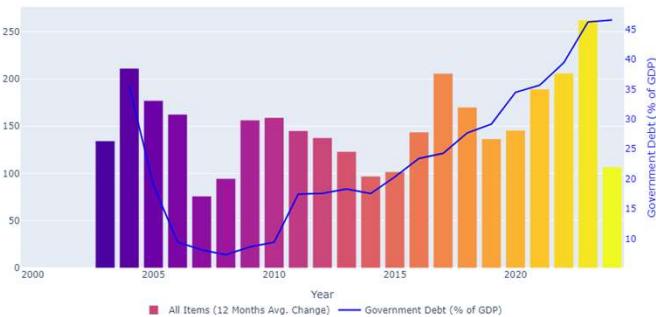
Consumer Price for all Items vs All Items (Year on Change)



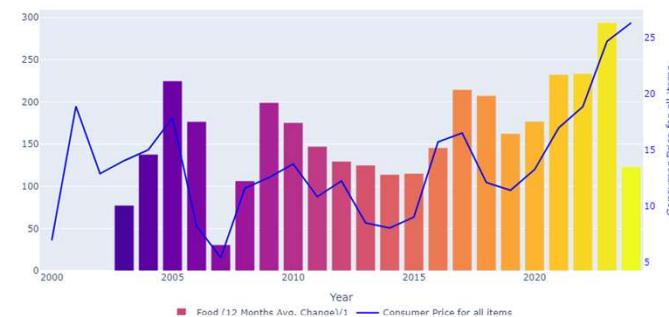
Consumer Price for all Items vs All Items (12 Months Avg. Change)



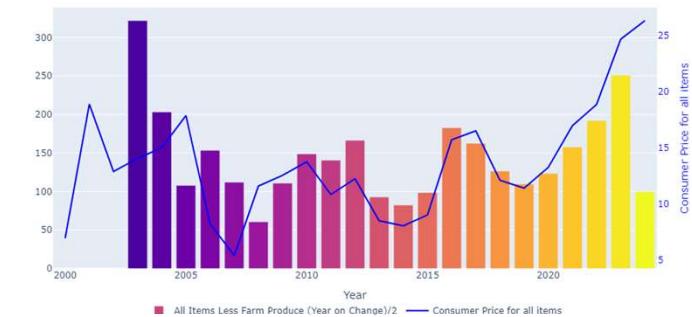
Government Debt (% of GDP) vs All Items (12 Months Avg. Change)



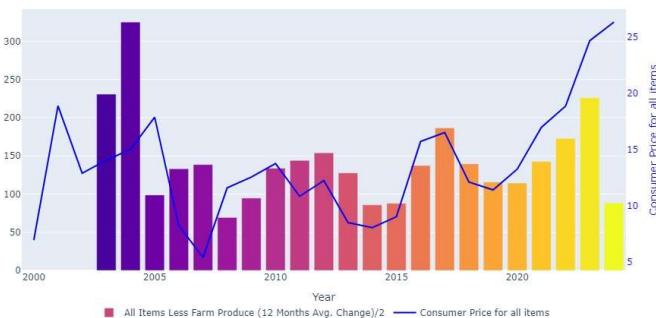
Consumer Price for all Items vs Food (12 Months Avg. Change)/1



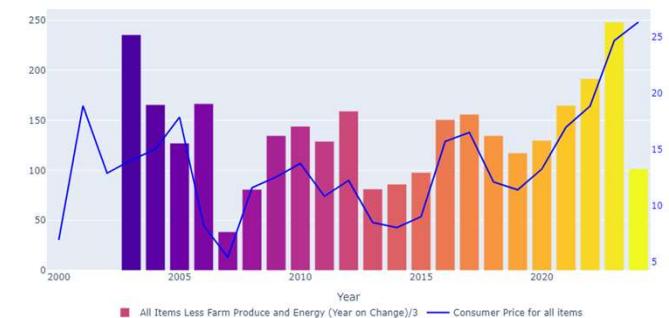
Consumer Price for all Items vs All Items Less Farm Produce (Year on Change)/2



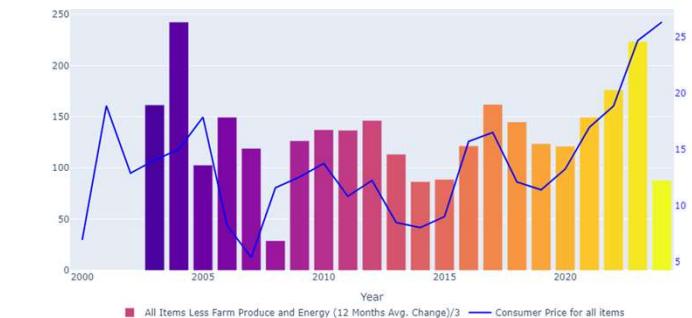
Consumer Price for all Items vs All Items Less Farm Produce (12 Months Avg. Change)/2



Consumer Price for all Items vs All Items Less Farm Produce and Energy (Year on Change)/3

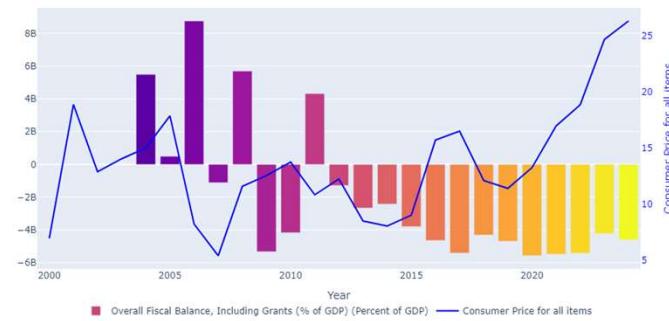


Consumer Price for all Items vs All Items Less Farm Produce and Energy (12 Months Avg. Change)/3

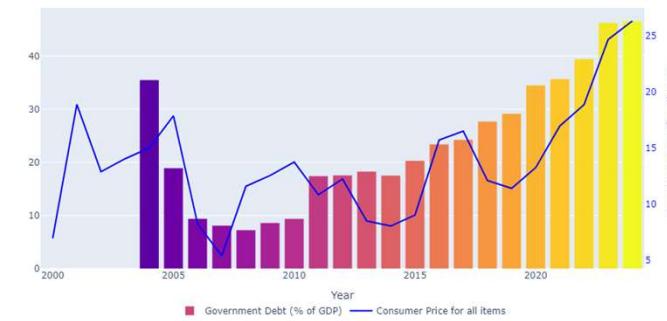


Insight into "Consumer Price for all items" and Economic Indicators – Bar Plots

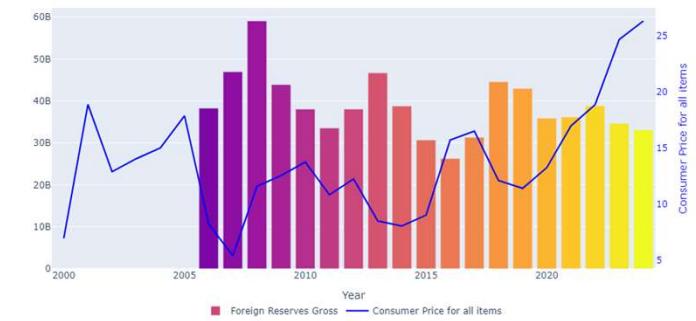
Consumer Price for all items vs Overall Fiscal Balance, Including Grants (% of GDP) (Percent of GDP)



Consumer Price for all items vs Government Debt (% of GDP)



Consumer Price for all items vs Foreign Reserves Gross



Consumer Price for all items vs Foreign Reserves Liquid



Insight into "Consumer Price for all items" and Economic Indicators – Line Plots

Consumer Price for all items (%) vs Nigerian Government Expenditure



Consumer Price for all Items (%) vs All Items (Year on Change)



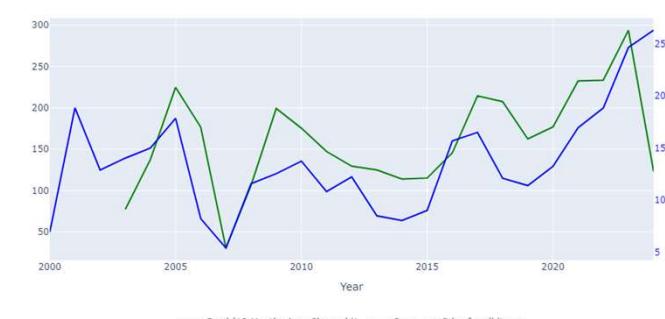
Consumer Price for all items (%) vs All Items (12 Months Avg. Change)



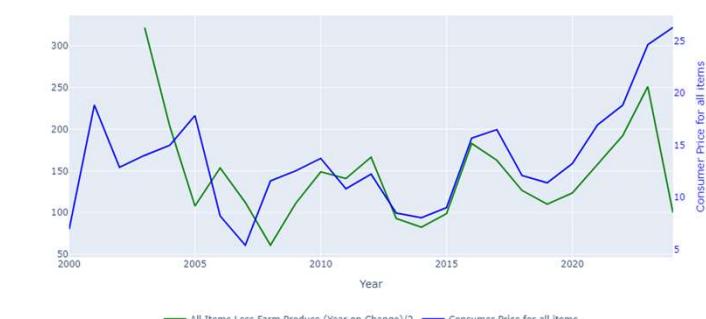
Consumer Price for all Items (%) vs Food (Year on Change)/1



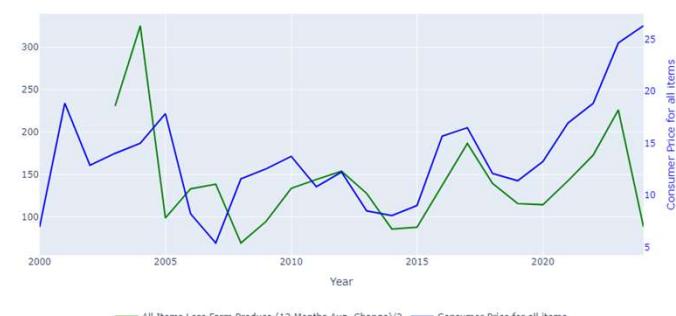
Consumer Price for all Items (%) vs Food (12 Months Avg. Change)/1



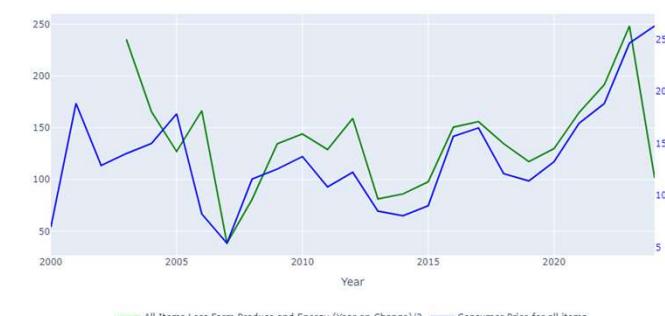
Consumer Price for all Items (%) vs All Items Less Farm Produce (Year on Change)/2



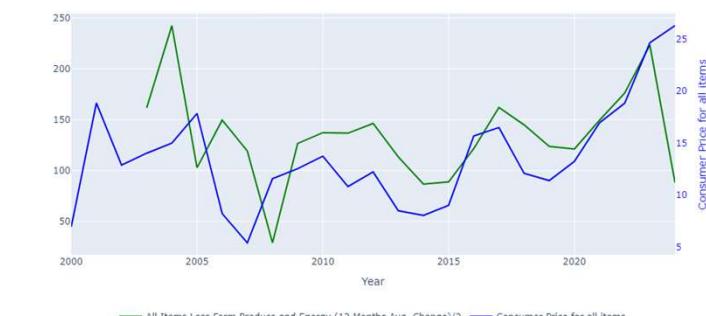
Consumer Price for all Items (%) vs All Items Less Farm Produce (12 Months Avg. Change)/2



Consumer Price for all Items (%) vs All Items Less Farm Produce and Energy (Year on Change)/3

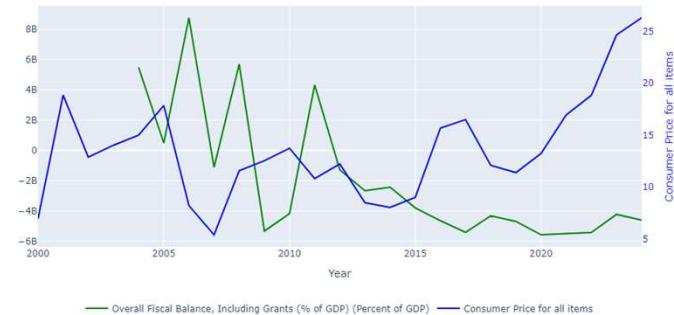


Consumer Price for all Items (%) vs All Items Less Farm Produce and Energy (12 Months Avg. Change)/3



Insight into "Consumer Price for all items" and Economic Indicators – Line Plots

Consumer Price for all items (%) vs Overall Fiscal Balance, Including Grants (% of GDP) (Percent of GDP)



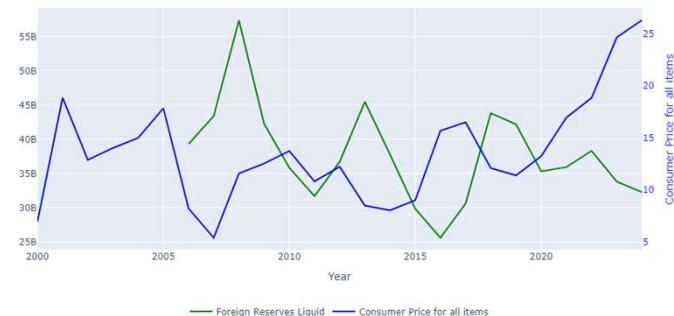
Consumer Price for all items (%) vs Government Debt (% of GDP)



Consumer Price for all items (%) vs Foreign Reserves Gross



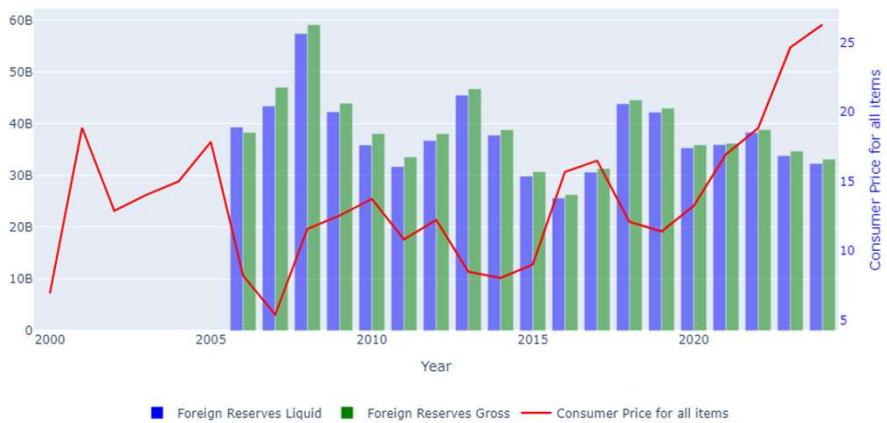
Consumer Price for all Items (%) vs Foreign Reserves Liquid



Insight into "Consumer Price for all items" and Foreign Reserves, Food and All Items Indicators

"Consumer Price for all items" and Foreign Reserves

Consumer Price for all items vs Foreign Reserves



"Consumer Price for all items" and Food

Consumer Price for all items vs Food

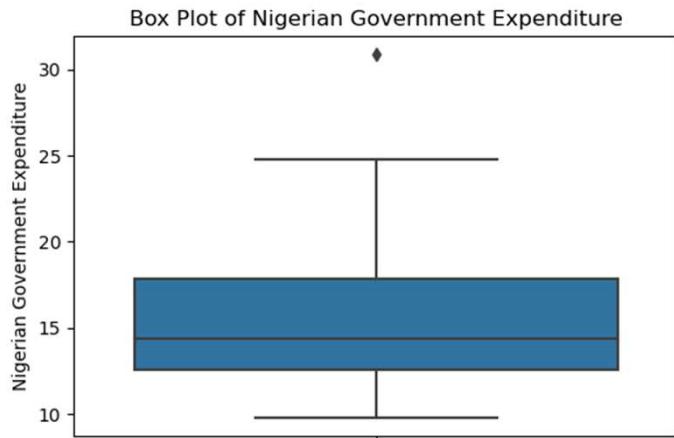
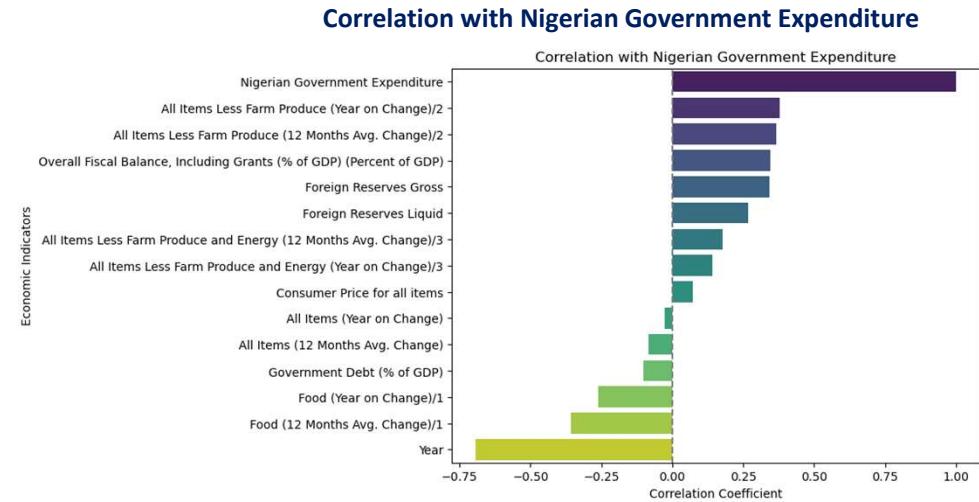
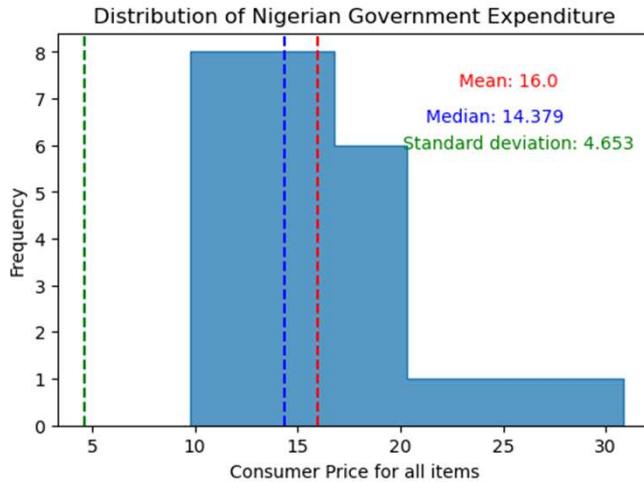


"Consumer Price for all items" and All Items

Consumer Price for all items vs All Items



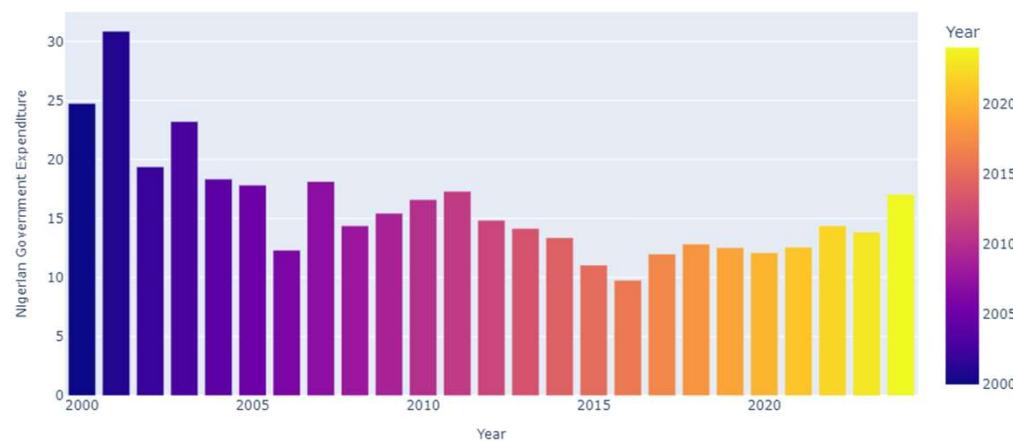
Insight into "Nigerian Government Expenditure"



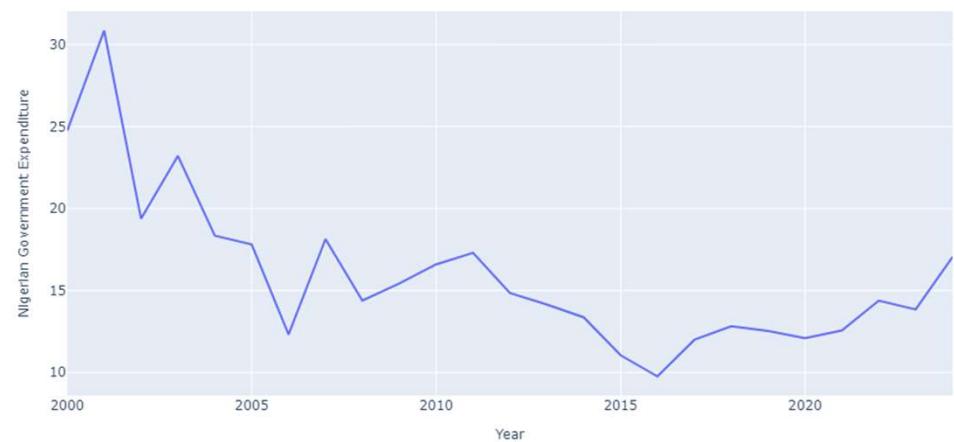
Nigerian Government Expenditure	1.000000
All Items Less Farm Produce (Year on Change)/2	0.377636
All Items Less Farm Produce (12 Months Avg. Change)/2	0.368142
Overall Fiscal Balance, Including Grants (% of GDP) (Percent of GDP)	0.346479
Foreign Reserves Gross	0.343698
Foreign Reserves Liquid	0.267589
All Items Less Farm Produce and Energy (12 Months Avg. Change)/3	0.176597
All Items Less Farm Produce and Energy (Year on Change)/3	0.141762
Consumer Price for all items	0.071164
All Items (Year on Change)	-0.026977
All Items (12 Months Avg. Change)	-0.083233
Government Debt (% of GDP)	-0.102892
Food (Year on Change)/1	-0.261751
Food (12 Months Avg. Change)/1	-0.358607
Year	-0.692989

" Nigerian Government Expenditure" and "Year"

Nigerian Government Expenditure for each Year



Nigerian Government Expenditure for each Year



- ✓ Government expenditure generally shows a declining trend from **2000** to around **2006**, followed by fluctuations with no clear upward or downward trend until **2015**.
- ✓ Expenditure remained relatively stable from **2016** to **2021**, with slight fluctuations.
- ✓ In **2022** and **2023**, there was a slight increase in expenditure, possibly indicating economic adjustments.
- ✓ A notable increase in **2024** suggests a potential shift in fiscal policy or economic priorities.

Significant "Nigerian Government Expenditure" Changes

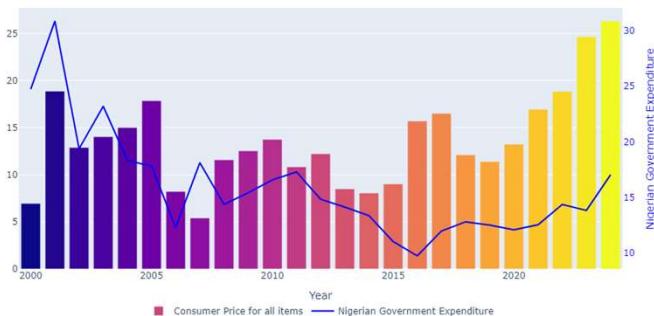
Year	Nigerian Government Expenditure	Change (%)
2002	19.381090	-37.190952
2006	12.316644	-30.851516
2007	18.134344	47.234464

- ✓ In **2002**, there was a significant decrease of approximately **-37.19%** in government expenditure compared to **2001**.
- ✓ In **2006**, government expenditure decreased significantly by about **-30.85%** compared to **2005**.
- ✓ In **2007**, there was a notable increase of about **47.23%** in government expenditure compared to **2006**.

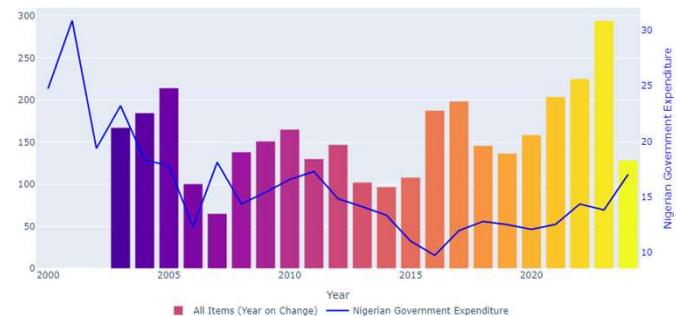
Dataset: 2000_onwards.csv

Insight into "Nigerian Government Expenditure" and Economic Indicators – Bar Plots

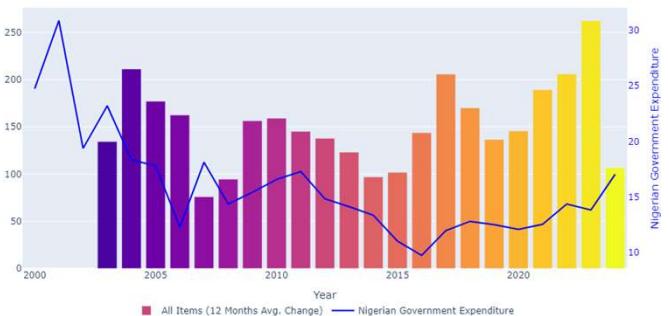
Nigerian Government Expenditure vs Consumer Price for all items



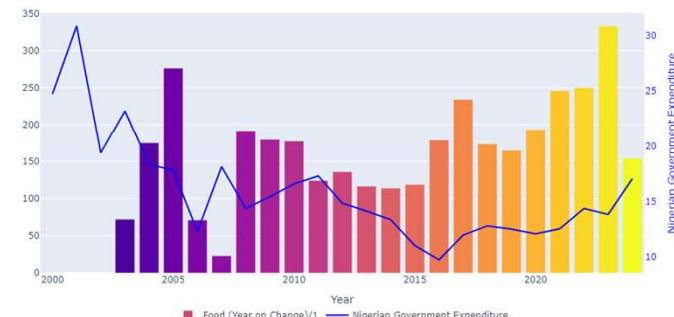
Nigerian Government Expenditure vs All Items (Year on Change)



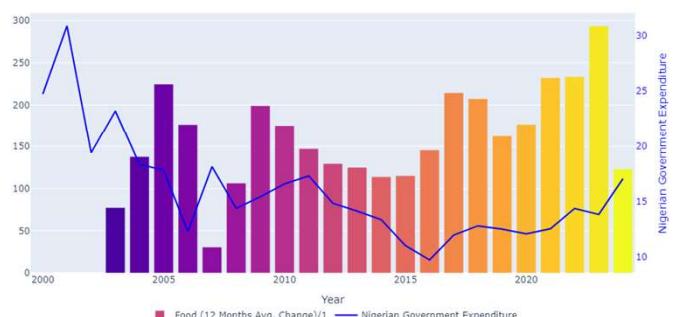
Nigerian Government Expenditure vs All Items (12 Months Avg. Change)



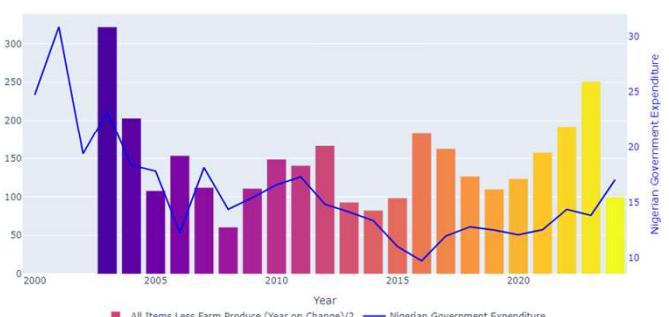
Nigerian Government Expenditure vs Food (Year on Change)/1



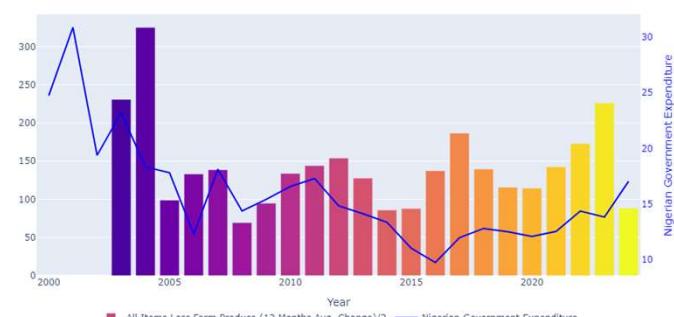
Nigerian Government Expenditure vs Food (12 Months Avg. Change)/1



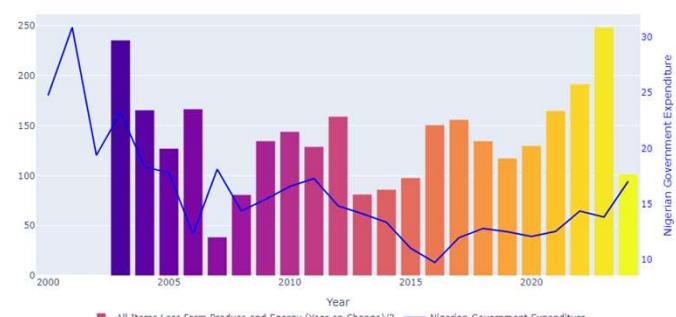
Nigerian Government Expenditure vs All Items Less Farm Produce (Year on Change)/2



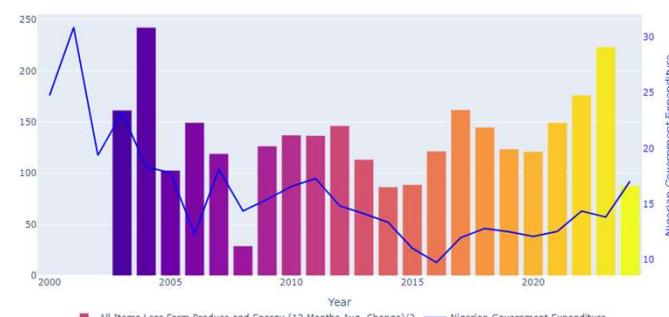
Nigerian Government Expenditure vs All Items Less Farm Produce (12 Months Avg. Change)/2



Nigerian Government Expenditure vs All Items Less Farm Produce and Energy (Year on Change)/3

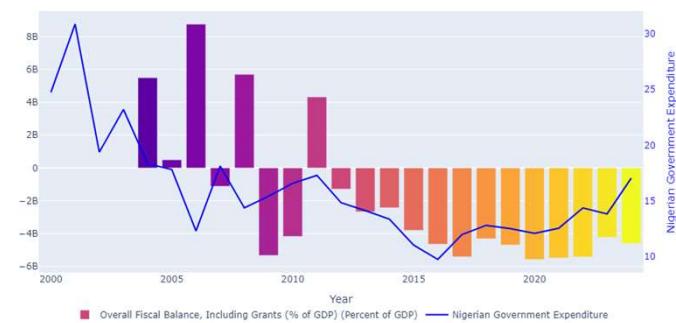


Nigerian Government Expenditure vs All Items Less Farm Produce and Energy (12 Months Avg. Change)/3

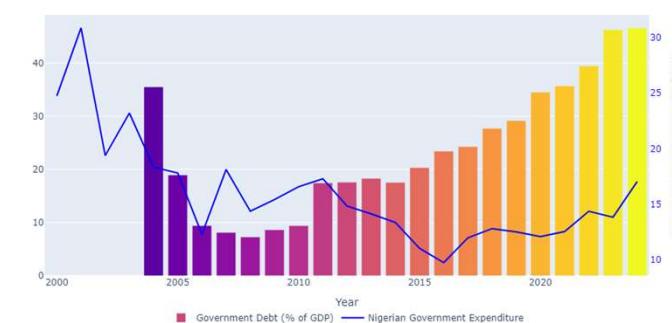


Insight into "Nigerian Government Expenditure" and Economic Indicators – Bar Plots

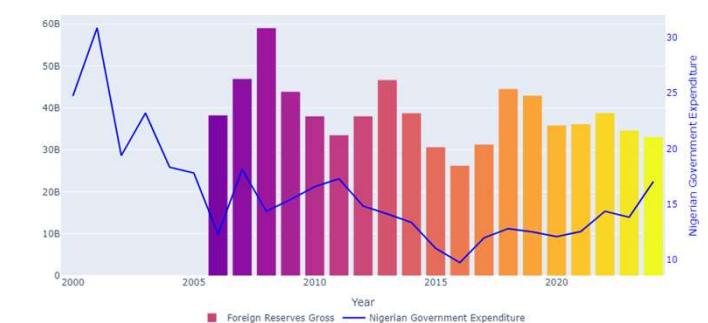
Nigerian Government Expenditure vs Overall Fiscal Balance, Including Grants (% of GDP) (Percent of GDP)



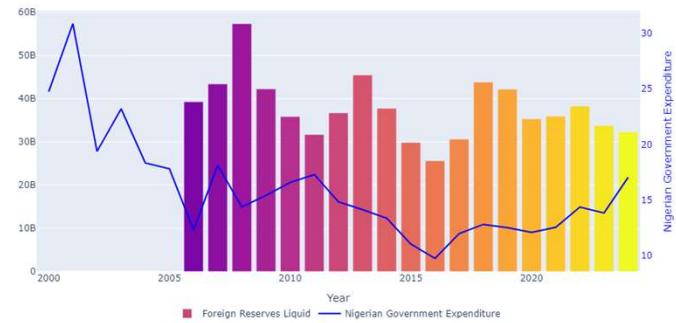
Nigerian Government Expenditure vs Government Debt (% of GDP)



Nigerian Government Expenditure vs Foreign Reserves Gross



Nigerian Government Expenditure vs Foreign Reserves Liquid



Insight into "Nigerian Government Expenditure" and Economic Indicators – Line Plots

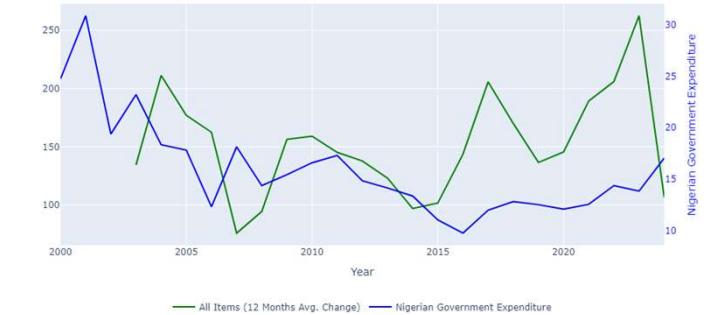
Nigerian Government Expenditure vs Consumer Price for all items



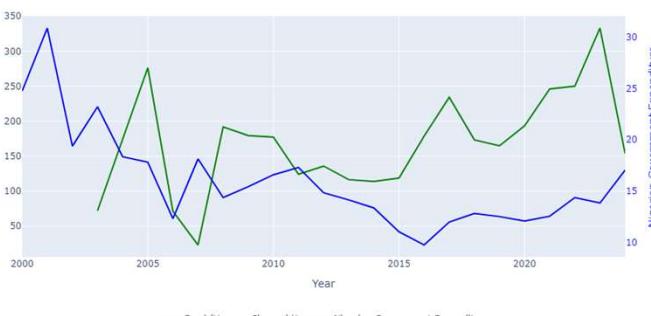
Nigerian Government Expenditure vs All Items (Year on Change)



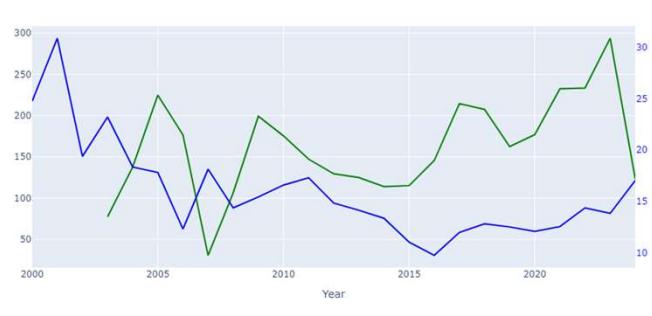
Nigerian Government Expenditure vs All Items (12 Months Avg. Change)



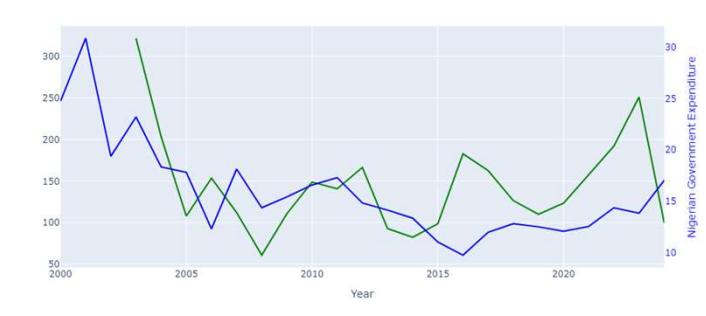
Nigerian Government Expenditure vs Food (Year on Change)/1



Nigerian Government Expenditure vs Food (12 Months Avg. Change)/1



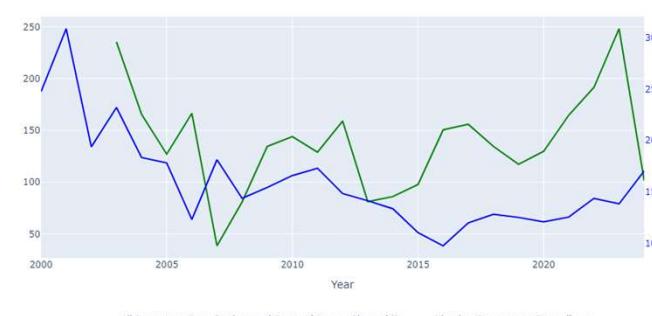
Nigerian Government Expenditure vs All Items Less Farm Produce (Year on Change)/2



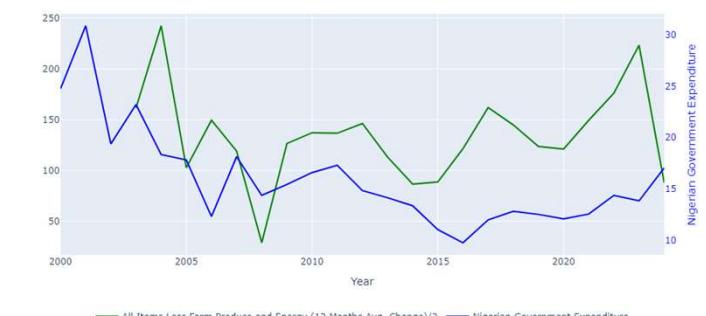
Nigerian Government Expenditure vs All Items Less Farm Produce (12 Months Avg. Change)/2



Nigerian Government Expenditure vs All Items Less Farm Produce and Energy (Year on Change)/3



Nigerian Government Expenditure vs All Items Less Farm Produce and Energy (12 Months Avg. Change)/3



Insight into "Nigerian Government Expenditure" and Economic Indicators – Line Plots

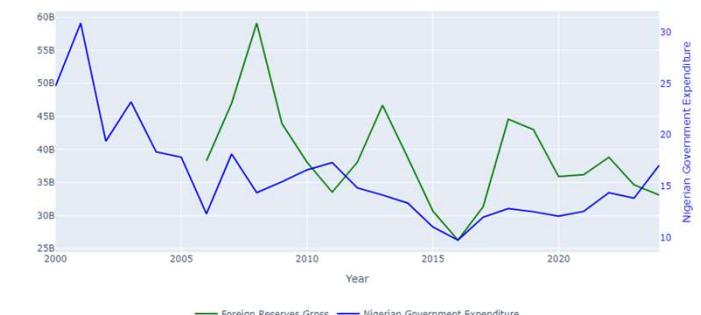
Nigerian Government Expenditure vs Overall Fiscal Balance, Including Grants (% of GDP) (Percent of GDP)



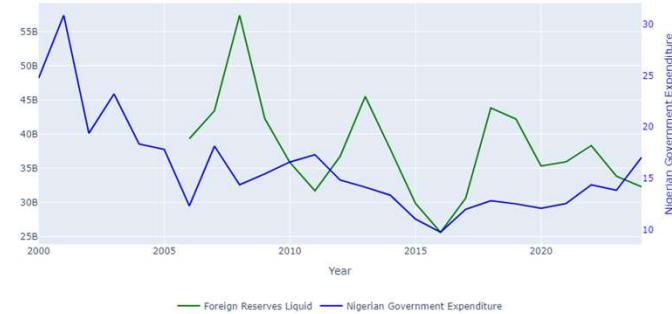
Nigerian Government Expenditure vs Government Debt (% of GDP)



Nigerian Government Expenditure vs Foreign Reserves Gross



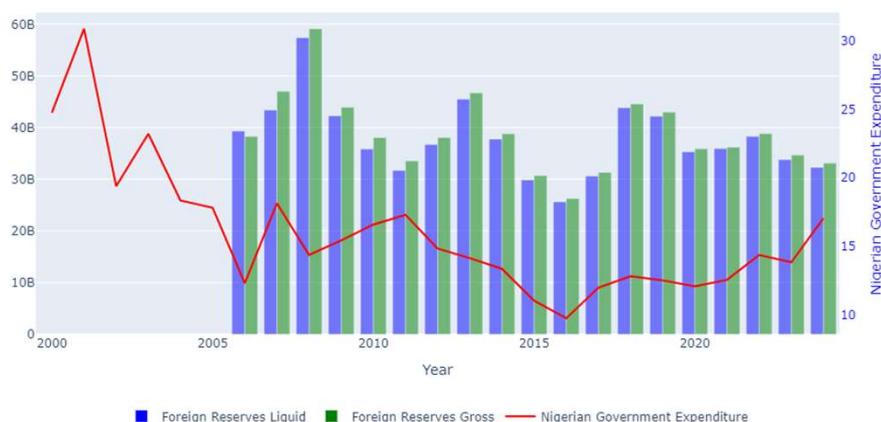
Nigerian Government Expenditure vs Foreign Reserves Liquid



Insight into "Nigerian Government Expenditure" and Foreign Reserves, Food and All Items Indicators

" Nigerian Government Expenditure " and Foreign Reserves

Nigerian Government Expenditure vs Foreign Reserves



" Nigerian Government Expenditure " and Food

Nigerian Government Expenditure vs Food



" Nigerian Government Expenditure " and All Items

Nigerian Government Expenditure vs All Items

