

# Balance Sheet Analysis

All the images generated are from the output of the code

Prerequisites for the program: Python and pip pre-installed on the system

The program run on some libraries and those need to be installed before running the program

The required libraries are 'requests', 'colorama', 'tabulate', 'matplotlib'

They can also be separately installed using 'pip install' but there is nothing to

worry about as the program will **self-install** the **required libraries** for that please ensure to have an **active internet connection** or else the program will throw an error because of missing libraries

The program runs on API requests so the program needs a constant internet connection

Project By:

Abhishree - 521

Divya Kumar Karan - 561

Gautam Raj - 563

Tanishque Shukla - 616

The sequence of output is as follows

```
-----  
Please have an active internet connection before running this program!!!  
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```

```
-----  
Please wait for few minutes while we load the system libraries in your pc ...  
-----
```





| Company : FB for Financial Year 2018 |

Ln 16, Col 91 Spaces: 4 UTF-8 CRLF Python 3.9.12 64-bit Go Live

### # Balance Sheet (in US Dollars)

Ln 16, Col 91 Spaces: 4 UTF-8 CRLF Python 3.9.12 64-bit Go Live



File Edit Selection View Go Run Terminal Help521\_561\_563\_616\_HU501\_Project\_code.py - Visual Studio Code

PROBLEMS OUTPUT TERMINAL JUPYTER DEBUG CONSOLE

totalNonCurrentAssets	\$ 46,854,000,000	preferredStock	\$ 0
otherAssets	\$ 0	commonStock	\$ 0
		retainedEarnings	\$ 41,981,000,000
		accumulatedOtherComprehensiveIncomeLoss	\$ -760,000,000
		otherTotalStockholdersEquity	\$ 42,906,000,000
		totalStockholdersEquity	\$ 84,127,000,000
		totalLiabilitiesAndStockholdersEquity	\$ 97,334,000,000
		minorityInterest	\$ 0
		totalEquity	\$ 84,127,000,000
TOTAL ASSETS	\$ 97,334,000,000	TOTAL LIABILITIES	\$ 97,334,000,000

Ref. : <https://www.financialmodelingprep.com/balance-sheet-data/FB>

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| Company : FB for Financial Year 2017 |

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# Analysis (in US Dollars)

- Total Current Assets : \$ 48,563,000,000
- Total Current Liabilities : \$ 3,760,000,000
- Working Capital : \$ 44,803,000,000
- Current Ratio : 12.915691489361702
- Cash and Short Term Investments : \$ 41,711,000,000
- Cash Ratio : 11.093351063829788
- Total Debt : \$ 0.0
- Total Stockholders Equity : \$ 74,347,000,000
- Debt to Equity : 0.0
- Long Term Debt : \$ 0.0
- Long Term Debt to Equity : 0.0
- Total Assets : \$ 84,524,000,000
- Financial Leverage : 1.1368851466770684
- Good will and Intangible Assets : \$ 20,105,000,000
- Percentage Intangibles : 23.78614358052151 %

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Ln 16, Col 91 Spaces: 4 UTF-8 CRLF Python 3.9.12 64-bit Go Live

File Edit Selection View Go Run Terminal Help521\_561\_563\_616\_HU501\_Project\_code.py - Visual Studio Code

PROBLEMS OUTPUT TERMINAL JUPYTER DEBUG CONSOLE

# Balance Sheet (in US Dollars)

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cashAndCashEquivalents	\$ 8,079,000,000	accountPayables	\$ 380,000,000
shortTermInvestments	\$ 33,632,000,000	shortTermDebt	\$ 0
cashAndShortTermInvestments	\$ 41,711,000,000	taxPayables	\$ 230,000,000
netReceivables	\$ 5,832,000,000	deferredRevenue	\$ 98,000,000
inventory	\$ 0	otherCurrentLiabilities	\$ 3,052,000,000
otherCurrentAssets	\$ 1,020,000,000	totalCurrentLiabilities	\$ 3,760,000,000
totalCurrentAssets	\$ 48,563,000,000	longTermDebt	\$ 0
propertyPlantEquipmentNet	\$ 13,721,000,000	deferredRevenueNonCurrent	\$ 0
goodwill	\$ 18,221,000,000	deferredTaxLiabilitiesNonCurrent	\$ 0
intangibleAssets	\$ 1,884,000,000	otherNonCurrentLiabilities	\$ 6,417,000,000
goodwillAndIntangibleAssets	\$ 20,105,000,000	totalNonCurrentLiabilities	\$ 6,417,000,000
longTermInvestments	\$ 0	otherLiabilities	\$ 0
taxAssets	\$ 0	capitalLeaseObligations	\$ 0
otherNonCurrentAssets	\$ 2,135,000,000	totalLiabilities	\$ 10,177,000,000
totalNonCurrentAssets	\$ 35,961,000,000	preferredStock	\$ 0
otherAssets	\$ 0	commonStock	\$ 0
		retainedEarnings	\$ 33,990,000,000
		accumulatedOtherComprehensiveIncomeLoss	\$ -227,000,000
		otherTotalStockholdersEquity	\$ 40,584,000,000
		totalStockholdersEquity	\$ 74,347,000,000
		totalLiabilitiesAndStockholdersEquity	\$ 84,524,000,000
		minorityInterest	\$ 0
		totalEquity	\$ 74,347,000,000
TOTAL ASSETS	\$ 84,524,000,000	TOTAL LIABILITIES	\$ 84,524,000,000

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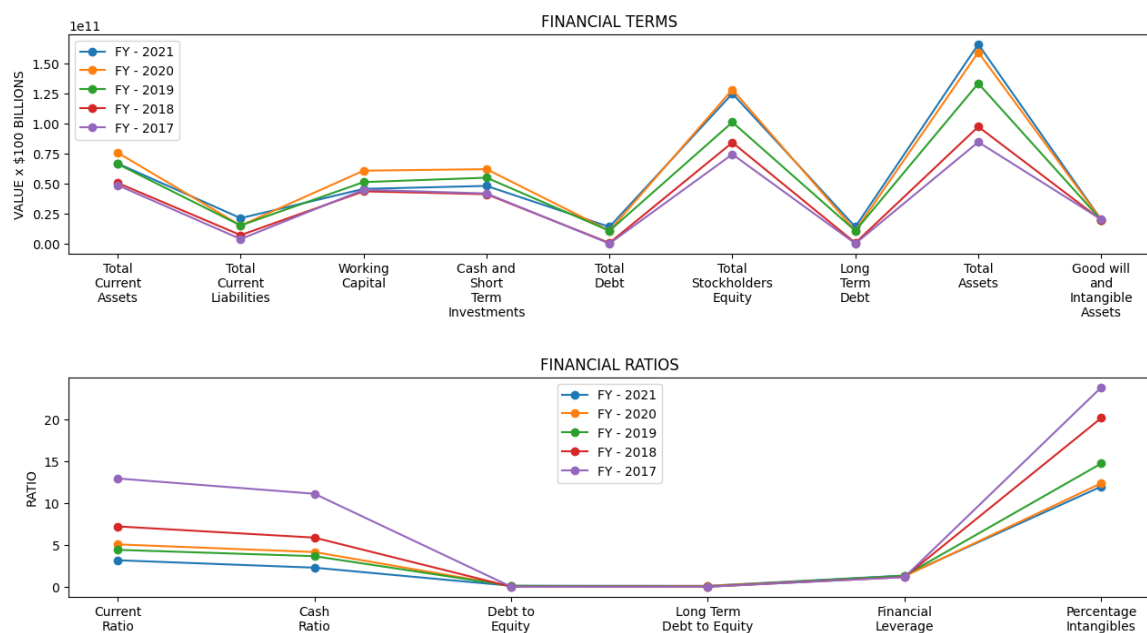
Ln 16, Col 91 Spaces: 4 UTF-8 CRLF Python 3.9.12 64-bit Go Live

Ref. : <https://www.financialmodelingprep.com/balance-sheet-data/FB>

Project by :

- 1 - Abhishree - 521
- 2 - Divya Kumar Karan - 561
- 3 - Gautam Raj - 563
- 4 - Tanishque Shukla - 616

[ Thank You ]



## Images as single outputs

A download is required before running

Please have an active internet connection before running this program!!!

Please wait for few minutes while we load the system libraries in your pc ...

Main menu where 5 years have been chosen for analysis

```
Choose company to analyse :
```

- 1 - Facebook
- 2 - Apple
- 3 - Microsoft

```
@ Enter your choice : 1
```

```
Choose no. of years to analyse : 5
```

The ratios of year 1

```
~~~~~  
| Company : FB for Financial Year 2021 |  
~~~~~
```

```
-----  
# Analysis (in US Dollars)  
-----
```

- Total Current Assets : \$ 66,666,000,000
- Total Current Liabilities : \$ 21,135,000,000
- Working Capital : \$ 45,531,000,000
- Current Ratio : 3.154293825408091
- Cash and Short Term Investments : \$ 47,998,000,000
- Cash Ratio : 2.2710196356754198
- Total Debt : \$ 13,873,000,000
- Total Stockholders Equity : \$ 124,879,000,000
- Debt to Equity : 0.111091536607436
- Long Term Debt : \$ 13,873,000,000
- Long Term Debt to Equity : 0.10206680066304183
- Total Assets : \$ 165,987,000,000
- Financial Leverage : 1.3291826488040424
- Good will and Intangible Assets : \$ 19,831,000,000
- Percentage Intangibles : 11.947321175754729 %

The ratios of year 2

```
~~~~~  
| Company : FB for Financial Year 2020 |  
~~~~~
```

```
-----  
# Analysis (in US Dollars)  
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```

- Total Current Assets : \$ 75,670,000,000
- Total Current Liabilities : \$ 14,981,000,000
- Working Capital : \$ 60,689,000,000
- Current Ratio : 5.051064681930446
- Cash and Short Term Investments : \$ 61,954,000,000
- Cash Ratio : 4.135504972965757
- Total Debt : \$ 10,654,000,000
- Total Stockholders Equity : \$ 128,290,000,000
- Debt to Equity : 0.08304622340010913
- Long Term Debt : \$ 10,654,000,000
- Long Term Debt to Equity : 0.07507210226829839
- Total Assets : \$ 159,316,000,000
- Financial Leverage : 1.2418427001325123
- Good will and Intangible Assets : \$ 19,673,000,000
- Percentage Intangibles : 12.348414471867232 %



## The ratios of year 3

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| Company : FB for Financial Year 2019 |
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# Analysis (in US Dollars)
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- Total Current Assets : $ 66,225,000,000
- Total Current Liabilities : $ 15,053,000,000
- Working Capital : $ 51,172,000,000
- Current Ratio : 4.39945525088088
- Cash and Short Term Investments : $ 54,855,000,000
- Cash Ratio : 3.644124094864811
- Total Debt : $ 10,601,000,000
- Total Stockholders Equity : $ 101,054,000,000
- Debt to Equity : 0.10490430858748788
- Long Term Debt : $ 10,601,000,000
- Long Term Debt to Equity : 0.0
- Total Assets : $ 133,376,000,000
- Financial Leverage : 1.3198487937142518
- Good will and Intangible Assets : $ 19,609,000,000
- Percentage Intangibles : 14.702045345489442 %
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```

## The ratios of year 4

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~~~~~
| Company : FB for Financial Year 2018 |
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# Analysis (in US Dollars)
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- Total Current Assets : $ 50,480,000,000
- Total Current Liabilities : $ 7,017,000,000
- Working Capital : $ 43,463,000,000
- Current Ratio : 7.193957531708707
- Cash and Short Term Investments : $ 41,114,000,000
- Cash Ratio : 5.859199087929315
- Total Debt : $ 500,000,000
- Total Stockholders Equity : $ 84,127,000,000
- Debt to Equity : 0.005943395105019791
- Long Term Debt : $ 500,000,000
- Long Term Debt to Equity : 0.0
- Total Assets : $ 97,334,000,000
- Financial Leverage : 1.1569888383039928
- Good will and Intangible Assets : $ 19,595,000,000
- Percentage Intangibles : 20.131711426634062 %
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```

## The ratios of year 5

```
~~~~~
| Company : FB for Financial Year 2017 |
~~~~~

-----
# Analysis (in US Dollars)
-----
- Total Current Assets : $ 48,563,000,000
- Total Current Liabilities : $ 3,760,000,000
- Working Capital : $ 44,803,000,000
- Current Ratio : 12.915691489361702
- Cash and Short Term Investments : $ 41,711,000,000
- Cash Ratio : 11.093351063829788
- Total Debt : $ 0.0
- Total Stockholders Equity : $ 74,347,000,000
- Debt to Equity : 0.0
- Long Term Debt : $ 0.0
- Long Term Debt to Equity : 0.0
- Total Assets : $ 84,524,000,000
- Financial Leverage : 1.1368851466770684
- Good will and Intangible Assets : $ 20,105,000,000
- Percentage Intangibles : 23.78614358052151 %
-----
```



## The balance sheet of year 1 (2021)

# Balance Sheet (in US Dollars)

cashAndCashEquivalents	\$ 16,601,000,000	accountPayables	\$ 4,083,000,000
shortTermInvestments	\$ 31,397,000,000	shortTermDebt	\$ 1,127,000,000
cashAndShortTermInvestments	\$ 47,998,000,000	taxPayables	\$ 1,256,000,000
netReceivables	\$ 14,039,000,000	deferredRevenue	\$ 561,000,000
inventory	\$ 0	otherCurrentLiabilities	\$ 14,108,000,000
otherCurrentAssets	\$ 4,629,000,000	totalCurrentLiabilities	\$ 21,135,000,000
totalCurrentAssets	\$ 66,666,000,000	longTermDebt	\$ 12,746,000,000
propertyPlantEquipmentNet	\$ 69,964,000,000	deferredRevenueNonCurrent	\$ 0
goodwill	\$ 19,197,000,000	deferredTaxLiabilitiesNonCurrent	\$ 0
intangibleAssets	\$ 634,000,000	otherNonCurrentLiabilities	\$ 7,227,000,000
goodwillAndIntangibleAssets	\$ 19,831,000,000	totalNonCurrentLiabilities	\$ 19,973,000,000
longTermInvestments	\$ 6,775,000,000	otherLiabilities	\$ 0
taxAssets	\$ 0	capitalLeaseObligations	\$ 13,873,000,000
otherNonCurrentAssets	\$ 2,751,000,000	totalLiabilities	\$ 41,108,000,000
totalNonCurrentAssets	\$ 99,321,000,000	preferredStock	\$ 0
otherAssets	\$ 0	commonStock	\$ 55,811,000,000
		retainedEarnings	\$ 69,761,000,000
		accumulatedOtherComprehensiveIncomeLoss	\$ -693,000,000
		otherTotalStockholdersEquity	\$ 0
		totalStockholdersEquity	\$ 124,879,000,000
		totalLiabilitiesAndStockholdersEquity	\$ 165,987,000,000
		minorityInterest	\$ 0
		totalEquity	\$ 124,879,000,000
TOTAL ASSETS	\$ 165,987,000,000	TOTAL LIABILITIES	\$ 165,987,000,000

Ref. : <https://www.financialmodelingprep.com/balance-sheet-data/FB>

## The balance sheet of year 2 (2020)

# Balance Sheet (in US Dollars)

cashAndCashEquivalents	\$ 17,576,000,000	accountPayables	\$ 1,331,000,000
shortTermInvestments	\$ 44,378,000,000	shortTermDebt	\$ 1,023,000,000
cashAndShortTermInvestments	\$ 61,954,000,000	taxPayables	\$ 2,038,000,000
netReceivables	\$ 11,335,000,000	deferredRevenue	\$ 382,000,000
inventory	\$ 0	otherCurrentLiabilities	\$ 10,207,000,000
otherCurrentAssets	\$ 2,381,000,000	totalCurrentLiabilities	\$ 14,981,000,000
totalCurrentAssets	\$ 75,670,000,000	longTermDebt	\$ 9,631,000,000
propertyPlantEquipmentNet	\$ 54,981,000,000	deferredRevenueNonCurrent	\$ 0
goodwill	\$ 19,050,000,000	deferredTaxLiabilitiesNonCurrent	\$ 0
intangibleAssets	\$ 623,000,000	otherNonCurrentLiabilities	\$ 6,414,000,000
goodwillAndIntangibleAssets	\$ 19,673,000,000	totalNonCurrentLiabilities	\$ 16,045,000,000
longTermInvestments	\$ 6,234,000,000	otherLiabilities	\$ 0
taxAssets	\$ 0	capitalLeaseObligations	\$ 10,654,000,000
otherNonCurrentAssets	\$ 2,758,000,000	totalLiabilities	\$ 31,026,000,000
totalNonCurrentAssets	\$ 83,646,000,000	preferredStock	\$ 0
otherAssets	\$ 0	commonStock	\$ 0
		retainedEarnings	\$ 77,345,000,000
		accumulatedOtherComprehensiveIncomeLoss	\$ 927,000,000
		otherTotalStockholdersEquity	\$ 50,018,000,000
		totalStockholdersEquity	\$ 128,290,000,000
		totalLiabilitiesAndStockholdersEquity	\$ 159,316,000,000
		minorityInterest	\$ 0
		totalEquity	\$ 128,290,000,000
TOTAL ASSETS	\$ 159,316,000,000	TOTAL LIABILITIES	\$ 159,316,000,000

Ref. : <https://www.financialmodelingprep.com/balance-sheet-data/FB>

## The Balance Sheet of Image 3(2019)

### # Balance Sheet (in US Dollars)

cashAndCashEquivalents	\$ 19,079,000,000	accountPayables	\$ 1,363,000,000
shortTermInvestments	\$ 35,776,000,000	shortTermDebt	\$ 1,077,000,000
cashAndShortTermInvestments	\$ 54,855,000,000	taxPayables	\$ 624,000,000
netReceivables	\$ 9,518,000,000	deferredRevenue	\$ 269,000,000
inventory	\$ 0	otherCurrentLiabilities	\$ 11,720,000,000
otherCurrentAssets	\$ 1,852,000,000	totalCurrentLiabilities	\$ 15,053,000,000
totalCurrentAssets	\$ 66,225,000,000	longTermDebt	\$ 0
propertyPlantEquipmentNet	\$ 35,323,000,000	deferredRevenueNonCurrent	\$ 0
goodwill	\$ 18,715,000,000	deferredTaxLiabilitiesNonCurrent	\$ 1,039,000,000
intangibleAssets	\$ 894,000,000	otherNonCurrentLiabilities	\$ 16,230,000,000
goodwillAndIntangibleAssets	\$ 19,609,000,000	totalNonCurrentLiabilities	\$ 17,269,000,000
longTermInvestments	\$ 86,000,000	otherLiabilities	\$ 0
taxAssets	\$ 0	capitalLeaseObligations	\$ 10,324,000,000
otherNonCurrentAssets	\$ 12,133,000,000	totalLiabilities	\$ 32,322,000,000
totalNonCurrentAssets	\$ 67,151,000,000	preferredStock	\$ 0
otherAssets	\$ 0	commonStock	\$ 0
		retainedEarnings	\$ 55,692,000,000
		accumulatedOtherComprehensiveIncomeLoss	\$ -489,000,000
		otherTotalStockholdersEquity	\$ 45,851,000,000
		totalStockholdersEquity	\$ 101,054,000,000
		totalLiabilitiesAndStockholdersEquity	\$ 133,376,000,000
		minorityInterest	\$ 0
		totalEquity	\$ 101,054,000,000
TOTAL ASSETS	\$ 133,376,000,000	TOTAL LIABILITIES	\$ 133,376,000,000

Ref. : <https://www.financialmodelingprep.com/balance-sheet-data/FB>



## The Balance Sheet of Image 4(2018)

# Balance Sheet (in US Dollars)

cashAndCashEquivalents	\$ 10,019,000,000	accountPayables	\$ 820,000,000
shortTermInvestments	\$ 31,095,000,000	shortTermDebt	\$ 500,000,000
cashAndShortTermInvestments	\$ 41,114,000,000	taxPayables	\$ 491,000,000
netReceivables	\$ 7,587,000,000	deferredRevenue	\$ 147,000,000
inventory	\$ 0	otherCurrentLiabilities	\$ 5,059,000,000
otherCurrentAssets	\$ 1,779,000,000	totalCurrentLiabilities	\$ 7,017,000,000
totalCurrentAssets	\$ 50,480,000,000	longTermDebt	\$ 0
propertyPlantEquipmentNet	\$ 24,683,000,000	deferredRevenueNonCurrent	\$ 0
goodwill	\$ 18,301,000,000	deferredTaxLiabilitiesNonCurrent	\$ 673,000,000
intangibleAssets	\$ 1,294,000,000	otherNonCurrentLiabilities	\$ 5,517,000,000
goodwillAndIntangibleAssets	\$ 19,595,000,000	totalNonCurrentLiabilities	\$ 6,190,000,000
longTermInvestments	\$ 0	otherLiabilities	\$ 0
taxAssets	\$ 0	capitalLeaseObligations	\$ 0
otherNonCurrentAssets	\$ 2,576,000,000	totalLiabilities	\$ 13,207,000,000
totalNonCurrentAssets	\$ 46,854,000,000	preferredStock	\$ 0
otherAssets	\$ 0	commonStock	\$ 0
		retainedEarnings	\$ 41,981,000,000
		accumulatedOtherComprehensiveIncomeLoss	\$ -760,000,000
		otherTotalStockholdersEquity	\$ 42,906,000,000
		totalStockholdersEquity	\$ 84,127,000,000
		totalLiabilitiesAndStockholdersEquity	\$ 97,334,000,000
		minorityInterest	\$ 0
		totalEquity	\$ 84,127,000,000
TOTAL ASSETS	\$ 97,334,000,000	TOTAL LIABILITIES	\$ 97,334,000,000

Ref. : <https://www.financialmodelingprep.com/balance-sheet-data/FB>



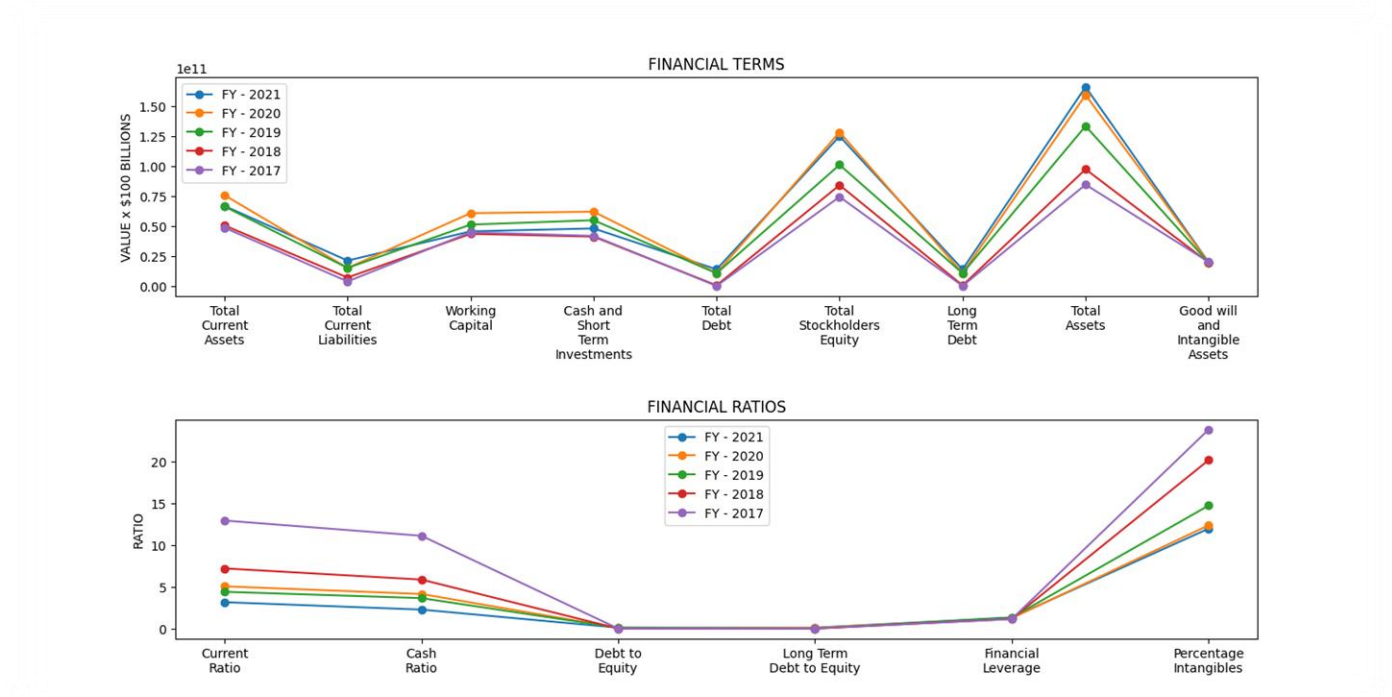
## The balance sheet of image 5(2017)

# Balance Sheet (in US Dollars)

cashAndCashEquivalents	\$ 8,079,000,000	accountPayables	\$ 380,000,000
shortTermInvestments	\$ 33,632,000,000	shortTermDebt	\$ 0
cashAndShortTermInvestments	\$ 41,711,000,000	taxPayables	\$ 230,000,000
netReceivables	\$ 5,832,000,000	deferredRevenue	\$ 98,000,000
inventory	\$ 0	otherCurrentLiabilities	\$ 3,052,000,000
otherCurrentAssets	\$ 1,020,000,000	totalCurrentLiabilities	\$ 3,760,000,000
totalCurrentAssets	\$ 48,563,000,000	longTermDebt	\$ 0
propertyPlantEquipmentNet	\$ 13,721,000,000	deferredRevenueNonCurrent	\$ 0
goodwill	\$ 18,221,000,000	deferredTaxLiabilitiesNonCurrent	\$ 0
intangibleAssets	\$ 1,884,000,000	otherNonCurrentLiabilities	\$ 6,417,000,000
goodwillAndIntangibleAssets	\$ 20,105,000,000	totalNonCurrentLiabilities	\$ 6,417,000,000
		accumulatedOtherComprehensiveIncomeLoss	\$ -227,000,000
		othertotalStockholdersEquity	\$ 40,584,000,000
		totalStockholdersEquity	\$ 74,347,000,000
		totalLiabilitiesAndStockholdersEquity	\$ 84,524,000,000
		minorityInterest	\$ 0
		totalEquity	\$ 74,347,000,000
TOTAL ASSETS	\$ 84,524,000,000	TOTAL LIABILITIES	\$ 84,524,000,000

Ref. : <https://www.financialmodelingprep.com/balance-sheet-data/FB>

System-generated plot for showing the health of the company



The ending screen

```
-----  
Project by :  
1 - Abhishree - 521  
2 - Divya Kumar Karan - 561  
3 - Gautam Raj - 563  
4 - Tanishque Shukla - 616  
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-----  
[ Thank You ]  
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```