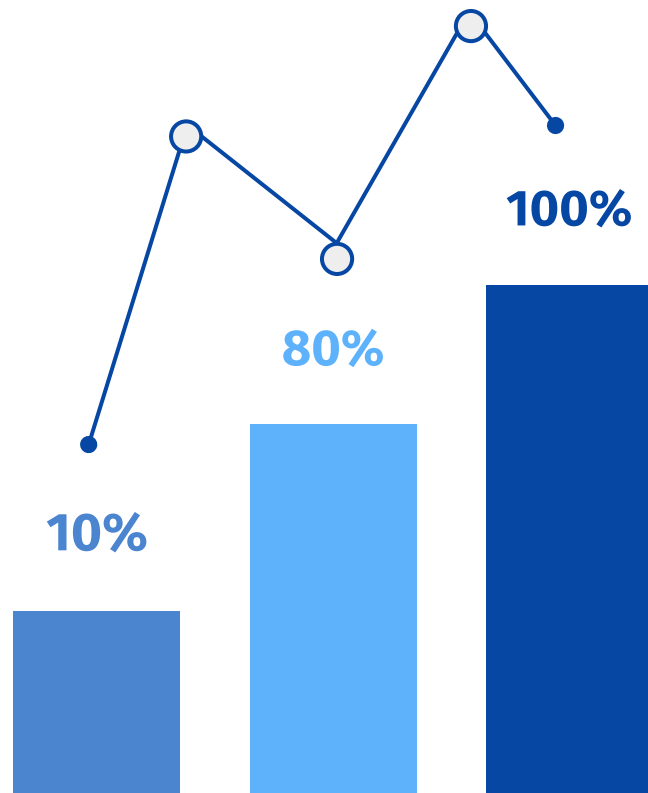


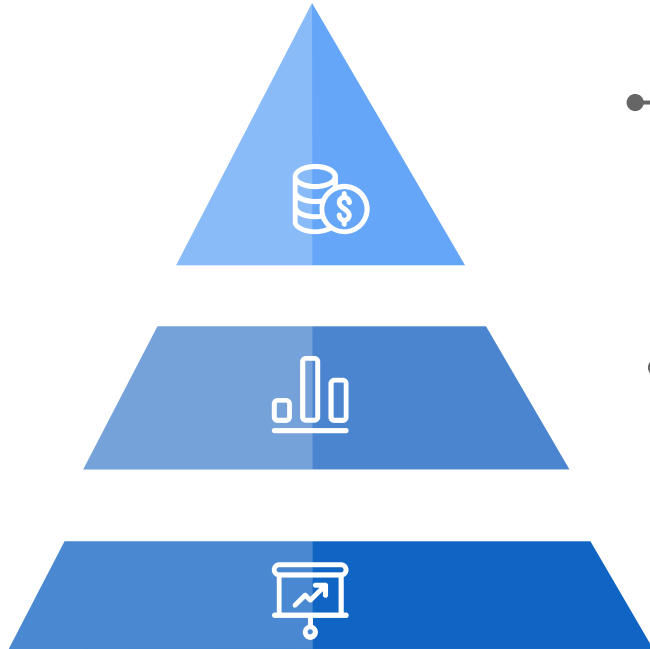


Análise de Dados de Commodities

Bruno Reina
Lerina Mastruian



Premissas para a Análise



DATASET

Commodities Prices - Investing.com

Foram escolhidas as seguintes commodities: Petróleo, Trigo, Ouro e Gás Natural, entre os anos de 2004 a 2022.

DADOS

As colunas disponíveis no conjunto foram: data e valores de negociação (abertura, fechamento, mínimo, máximo, alteração percentual e volume) separados para cada commodity.

DADOS FALTANTES

Podemos notar que no conjunto de dados não possuímos negociação no Trigo entre os anos de 2010 a 2015.

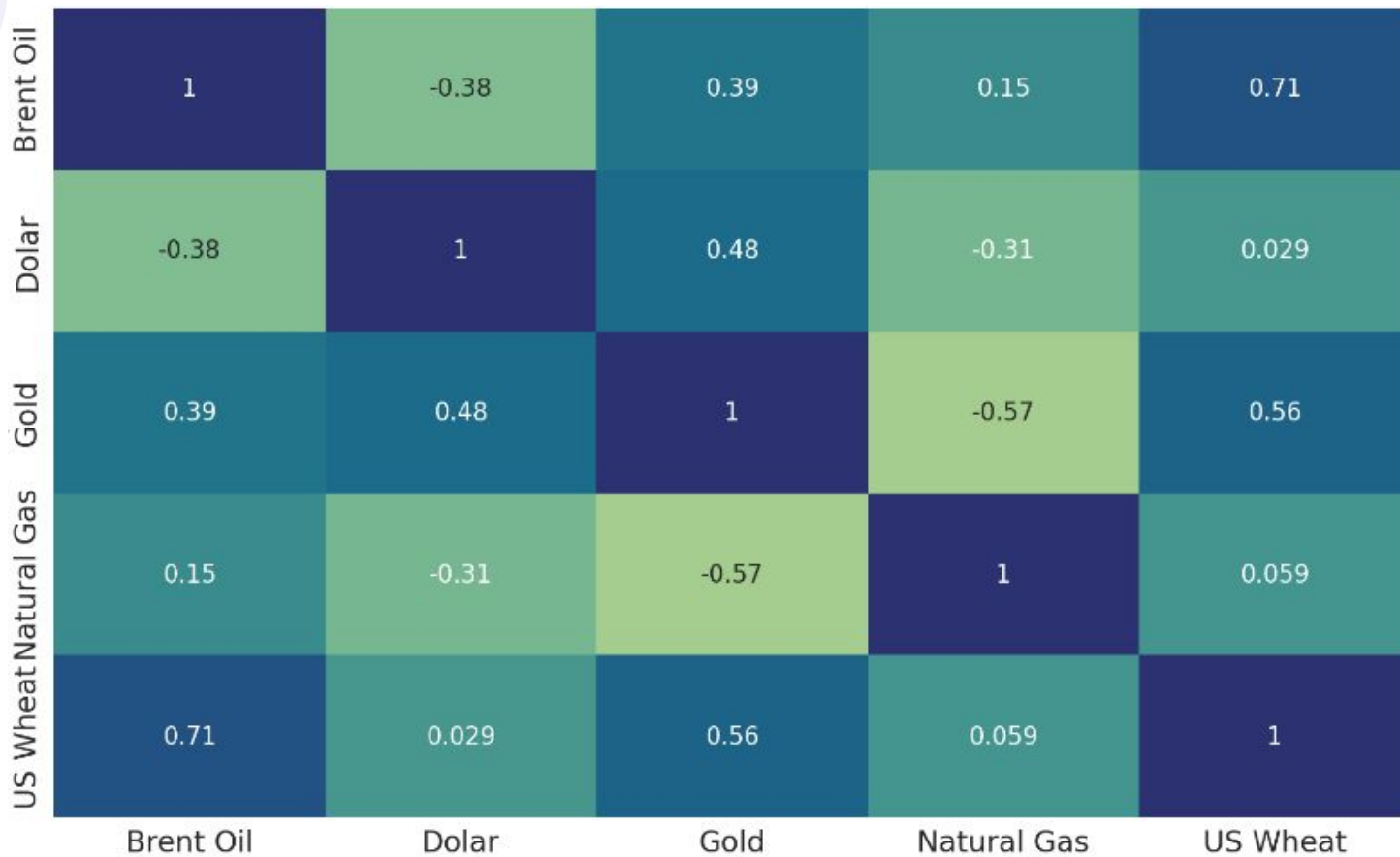


Analise estatística descritiva dos preços Acumulados para cada commodity

| Symbol | Brent Oil | Dolar | Gold | Natural Gas | US Wheat |
|--------|-------------|-------------|-------------|-------------|-------------|
| count | 5139.000000 | 5139.000000 | 5139.000000 | 5139.000000 | 5139.000000 |
| mean | 74.616114 | 2.954447 | 1211.889930 | 4.599213 | 576.548455 |
| std | 25.820981 | 1.207547 | 434.258626 | 2.340539 | 176.642289 |
| min | 19.330000 | 1.538300 | 374.900000 | 1.482000 | 283.500000 |
| 25% | 54.750000 | 2.008650 | 909.500000 | 2.853000 | 458.250000 |
| 50% | 69.860000 | 2.440200 | 1257.100000 | 3.903000 | 531.000000 |
| 75% | 98.425000 | 3.748700 | 1566.200000 | 5.974500 | 689.505000 |
| max | 146.080000 | 5.885600 | 2069.400000 | 15.378000 | 1425.250000 |

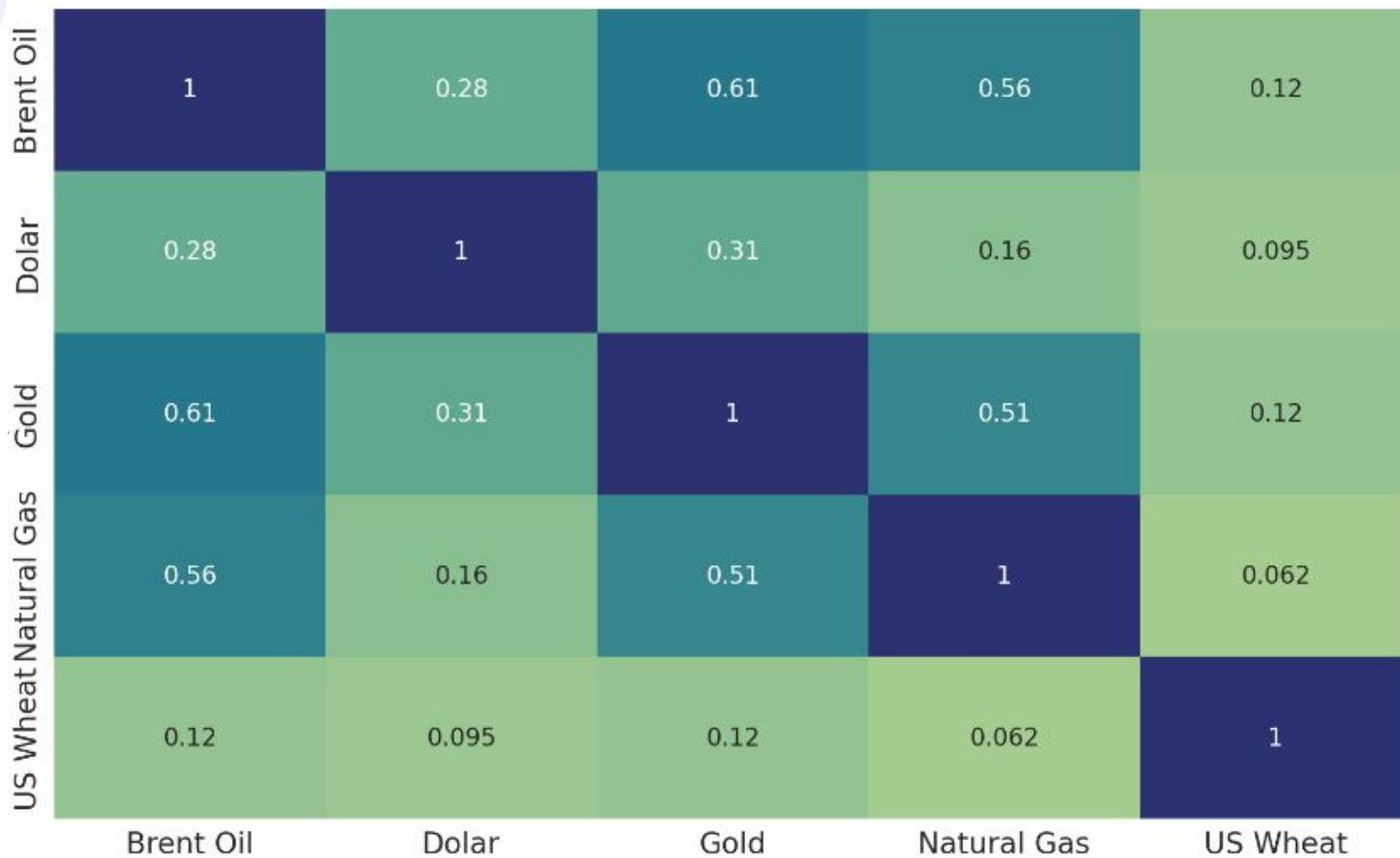


Correlações entre Preços






Correlações entre Volumes





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Veja como funciona.


 Procurando dados? Encontre-o no Power BI



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Veja como funciona.

Inserir

 Procurando dados? Encontre-o no Power BI

Conclusões da Análise



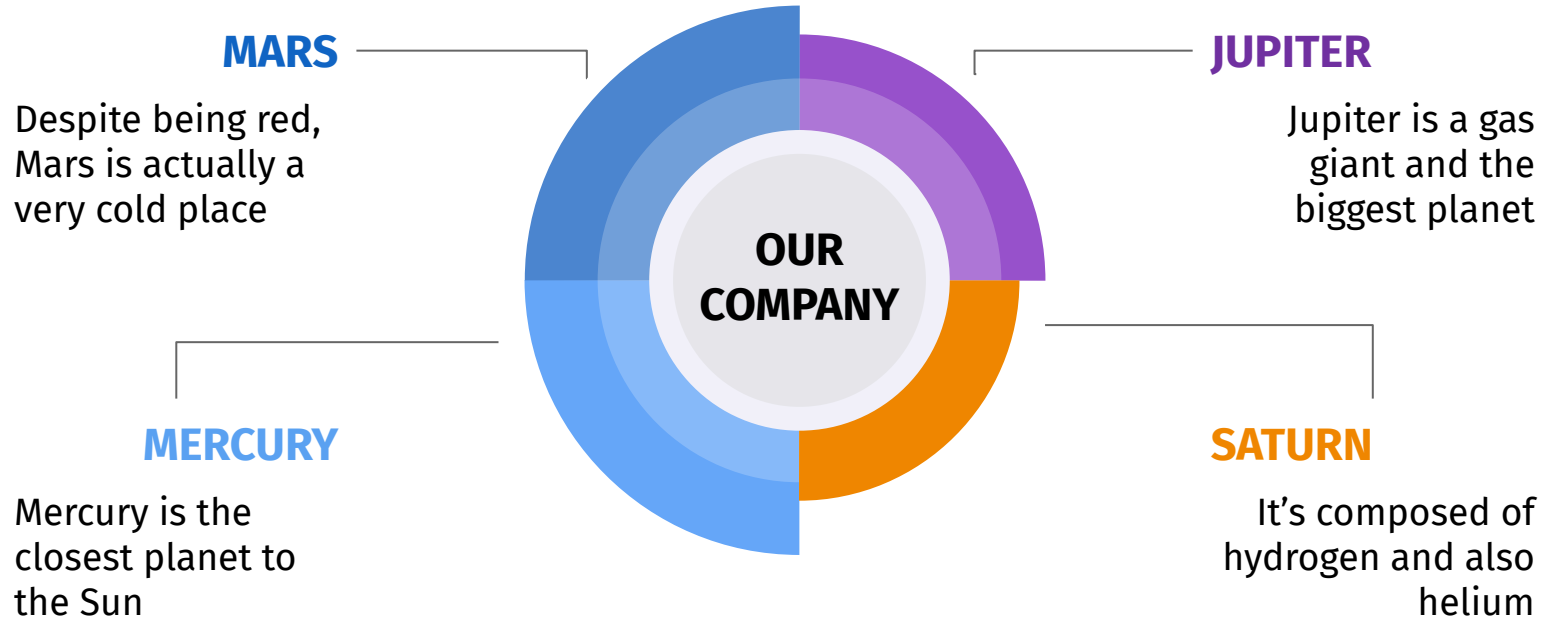
- Na análise histórica, entendemos que o ouro e o trigo possuem comportamentos de gráficos parecidos, onde realizamos análise de correlação e houve a confirmação.
- Notamos que o petróleo entra em estágio de valores mínimos em média a cada 5 anos.
- Durante o período histórico completo analisado, o ouro foi a commodity que teve a maior valorização percentual.
- Não conseguimos encontrar evidência da falta de dados para o trigo no período entre 2010 e 2015.
- Apesar dos últimos aumentos recentes, devido a guerra entre Rússia e Ucrânia, o gás natural foi a única commodity que ainda teve um decréscimo percentual entre 2004 e 2022.

Conclusões da Análise

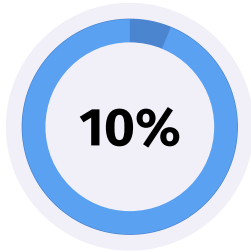


- O volume negociado do ouro, do trigo e do petróleo estão diretamente correlacionados, quando um aumenta o outro aumenta, visto que os 3 possuem correlações positivas acima de 50%.
- O preço do ouro está diretamente relacionado aos preços do gás natural e do trigo, apresentando correlações positivas de 57% e 56%, respectivamente.
- O preço do petróleo e do trigo estão fortemente relacionados e de maneira positiva, ou seja, quando um aumenta o outro aumenta, apresentando uma correlação de 71%.
- A commodity mais impactada pelo dólar é o ouro, apresentando uma correlação positiva de 48%.
- Apesar do ouro ter um preço médio muito superior às demais commodities, a commodity com o maior volume negociado no período foi o petróleo, com 37% do volume total, enquanto o ouro ficou em segundo lugar, com 34%.

Escopo



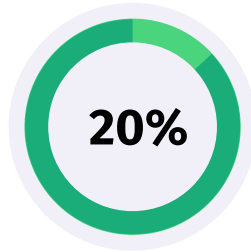
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10%

MERCURY

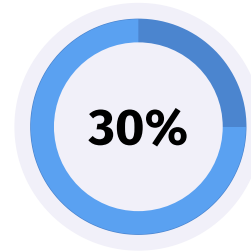
Mercury is the closest planet to the Sun



20%

MARS

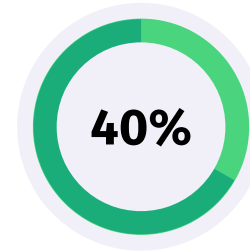
Despite being red, Mars is actually a cold place



30%

JUPITER

Jupiter is a gas giant and the biggest planet



40%

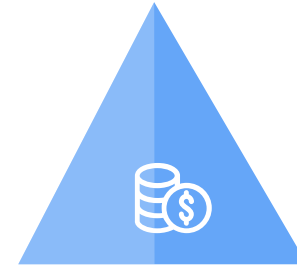
VENUS

Venus is the second planet from the Sun

Budget Infographics

MERCURY

Mercury is the closest planet to the Sun and the smallest one



VENUS

Venus has a beautiful name and is the second planet from the Sun

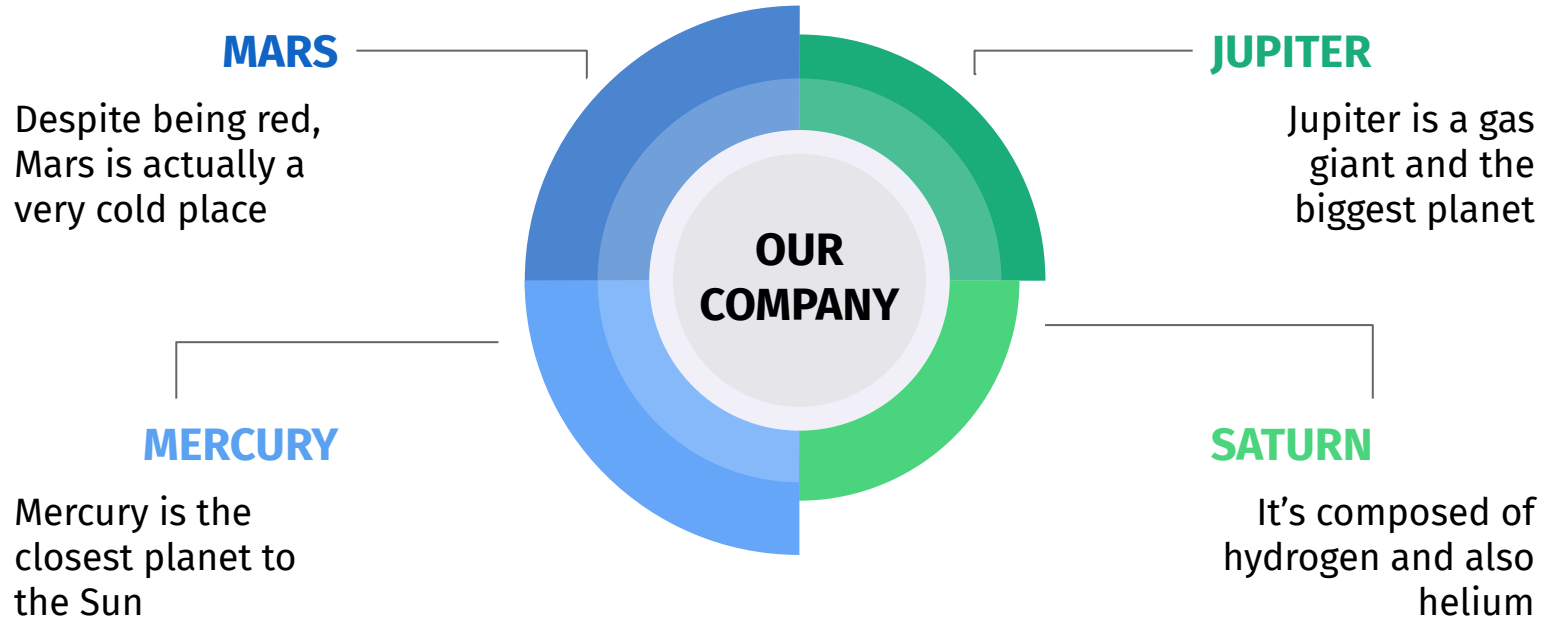


MARS

Despite being red, Mars is a very cold place full of iron oxide dust



Escopo



Budget Infographics

SATURN

It's composed of hydrogen and also helium

MARS

Despite being red, Mars is actually a cold place

VENUS

Venus is the second planet from the Sun



JUPITER

Jupiter is a gas giant and the biggest planet

MERCURY

Mercury is the closest planet to the Sun

NEPTUNE

Neptune is the farthest planet from the Sun

Budget Infographics

MONTH 2

Venus has a beautiful name and is the second planet

MONTH 4

Neptune is the farthest planet from the Sun and the fourth-largest

MONTH 1

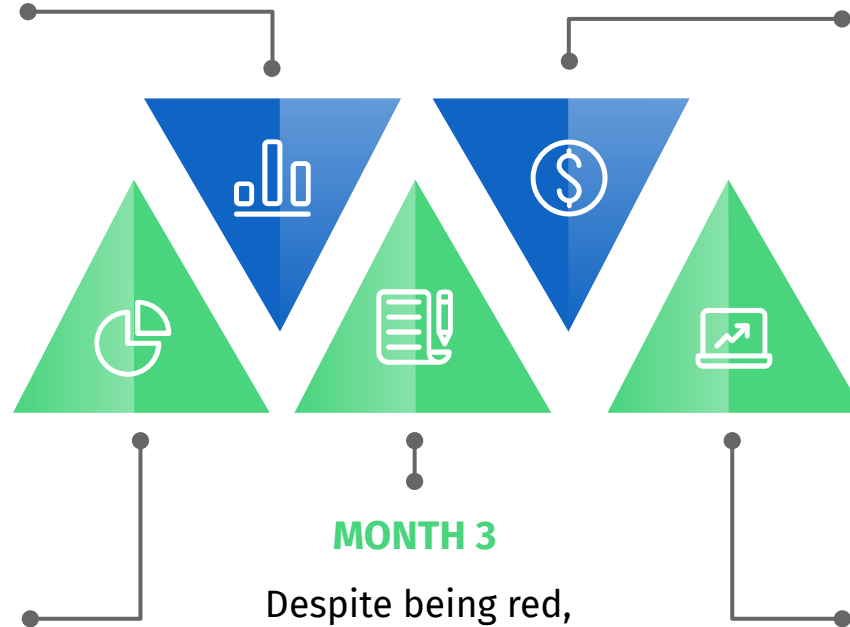
Mercury is the closest planet to the Sun and the smallest

MONTH 3

Despite being red, Mars is actually a very cold place

MONTH 5

Jupiter is a gas giant and the biggest planet in the Solar System



Budget Infographics

MARS

Despite being red, Mars is actually a cold place

JUPITER

Jupiter is a gas giant and the biggest planet of them all



MERCURY

Mercury is the closest planet to the Sun and the smallest one

VENUS

Venus has a beautiful name and is the second planet

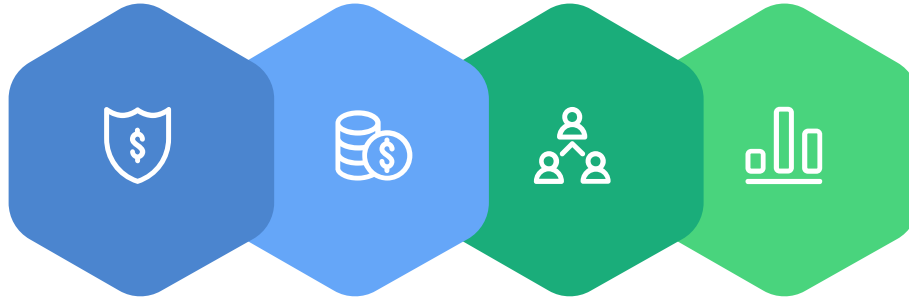
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MARS

Despite being red, Mars is actually a very cold place

VENUS

Venus is the second planet from the Sun



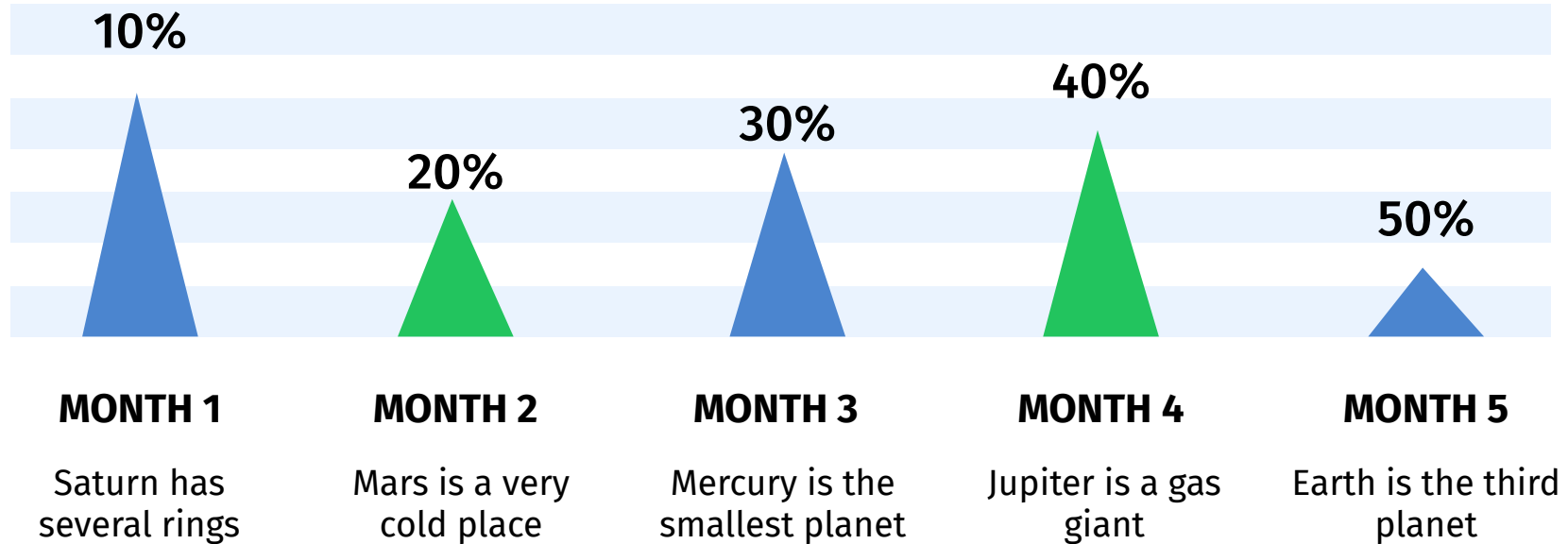
MERCURY

Mercury is the closest planet to the Sun

JUPITER

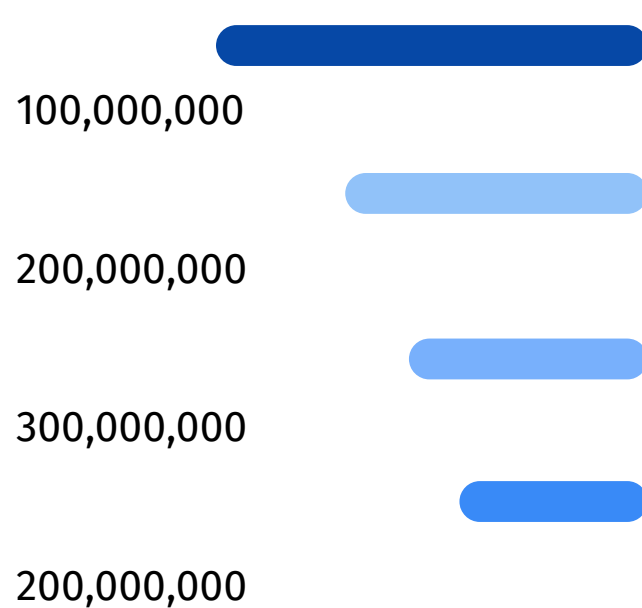
Jupiter is a gas giant and the biggest planet

Budget Infographics

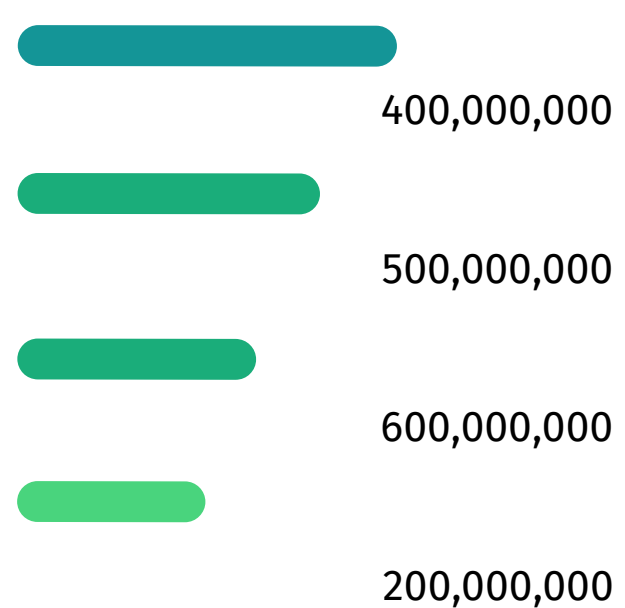


Budget Infographics

MARS

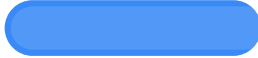


JUPITER



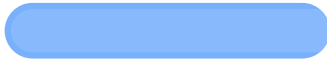
Budget Infographics

10%



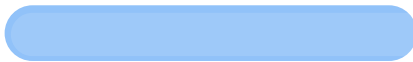
Neptune is the farthest planet from the Sun

20%



Venus is the second planet from the Sun

30%



Jupiter is the biggest planet in the Solar System

40%



Mercury is the closest planet to the Sun

Budget Infographics

SATURN

Saturn is a gas giant and has several rings



10%

JUPITER

It's a gas giant and the biggest planet of them all



20%

MERCURY

Mercury is the smallest planet in the Solar System



30%

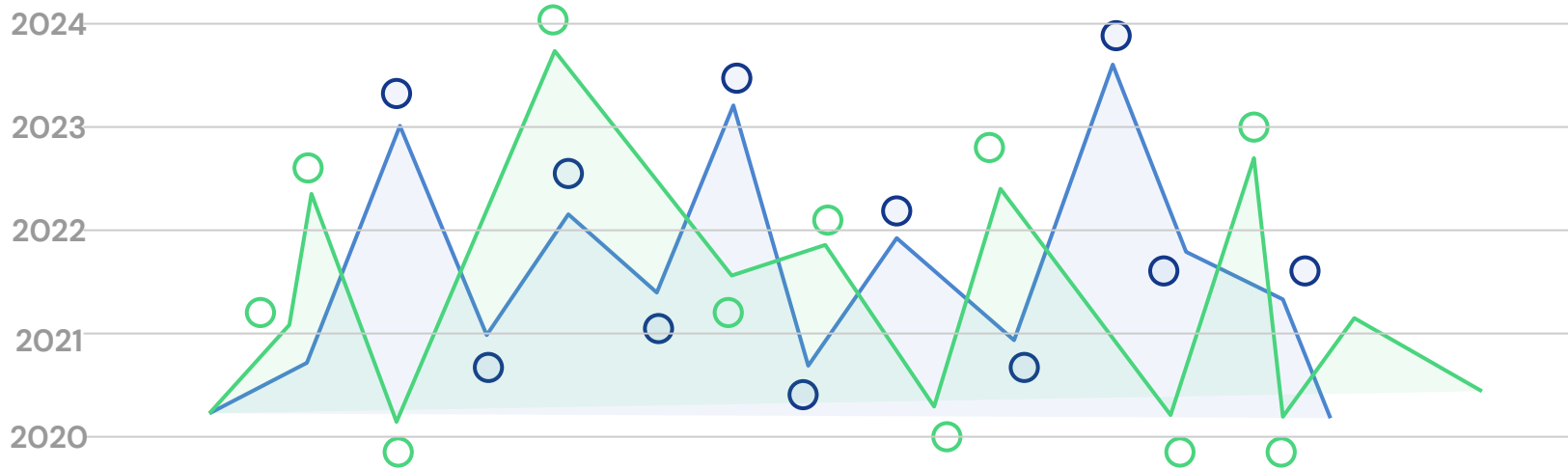
MARS

Despite being red, Mars is actually a very cold place



40%

Budget Infographics



MERCURY



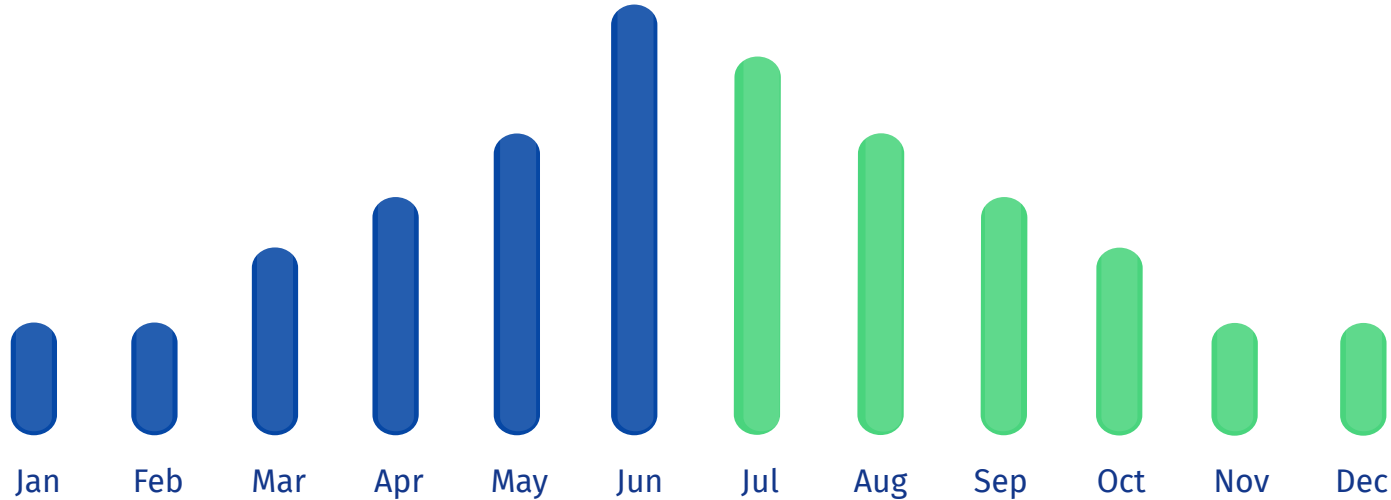
Mercury is the closest planet to the Sun and the smallest one

MARS



Despite being red, Mars is actually a cold place

Budget Infographics



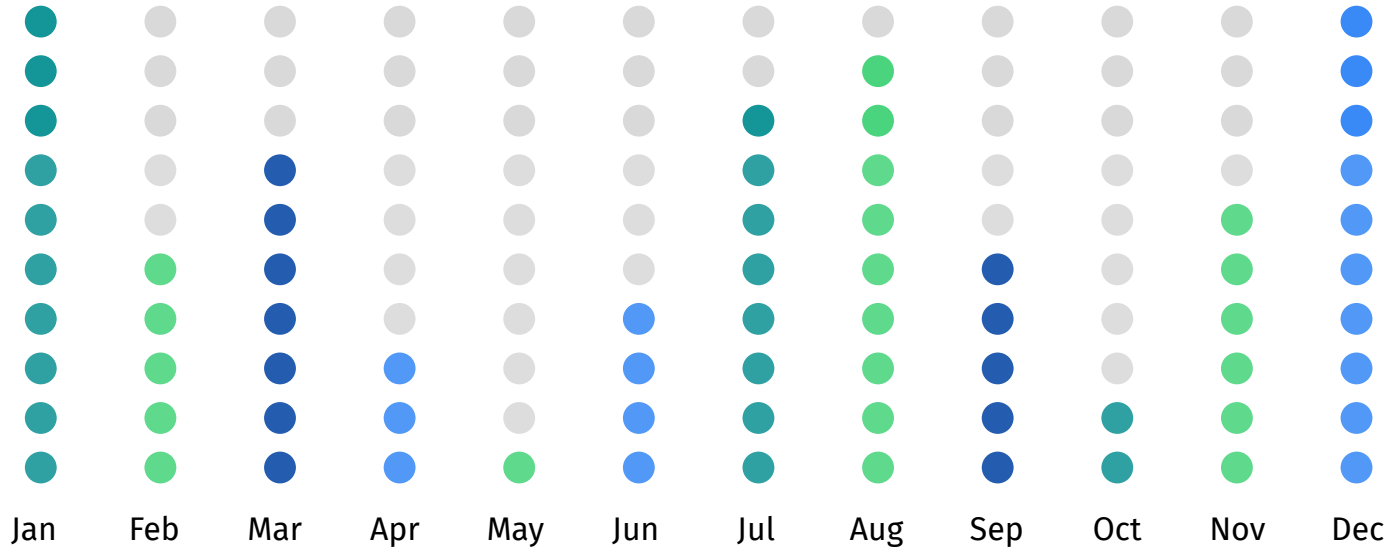
MERCURY

Mercury is the closest planet to the Sun and the smallest one

NEPTUNE

Neptune is the fourth-largest planet in the Solar System

Budget Infographics



MERCURY

Mercury is the closest planet to the Sun

MARS

Despite being red, Mars is a cold place

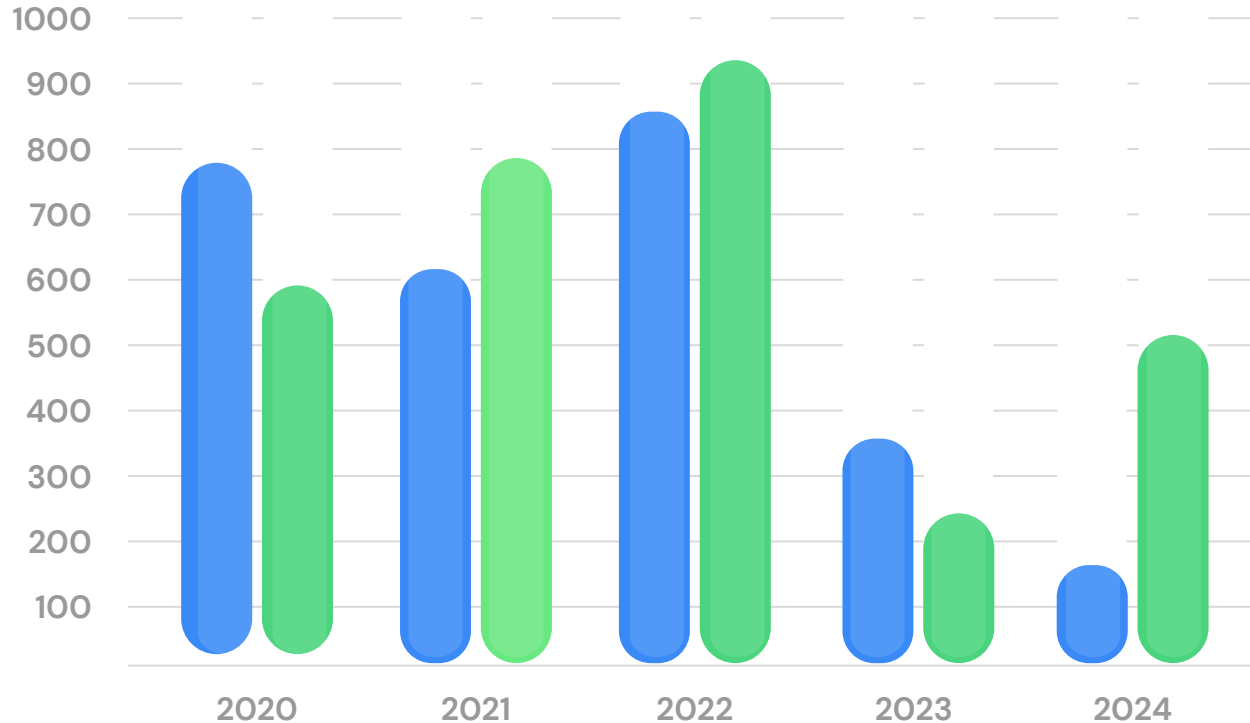
JUPITER

Jupiter is a gas giant and the biggest planet

NEPTUNE

Neptune is the farthest planet

Budget Infographics



MERCURY

Mercury is the closest planet to the Sun and the smallest one



MARS

Despite being red, Mars is actually a cold place

Budget Infographics



VENUS

Venus has a beautiful name and is the second one from the Sun



MARS

Neptune is the fourth-largest planet in the Solar System



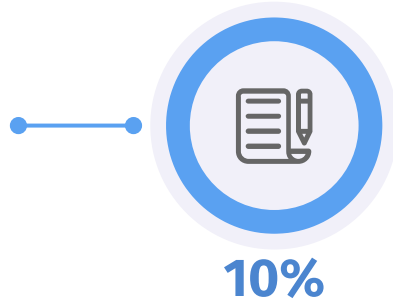
JUPITER

Jupiter is a gas giant and the biggest planet in the Solar System

Budget Infographics

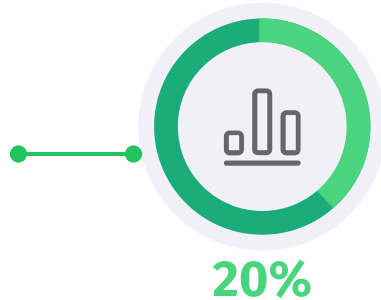
MARS

Despite being red, Mars is actually a very cold place



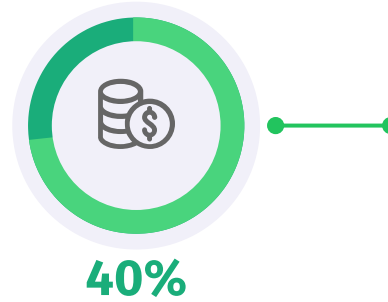
MERCURY

Mercury is the closest planet to the Sun and the smallest



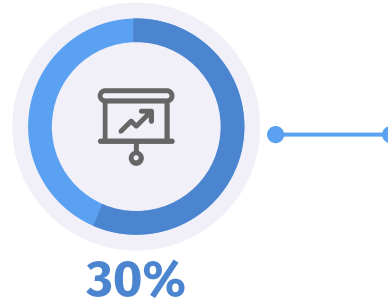
JUPITER

Jupiter is the biggest planet in the Solar System

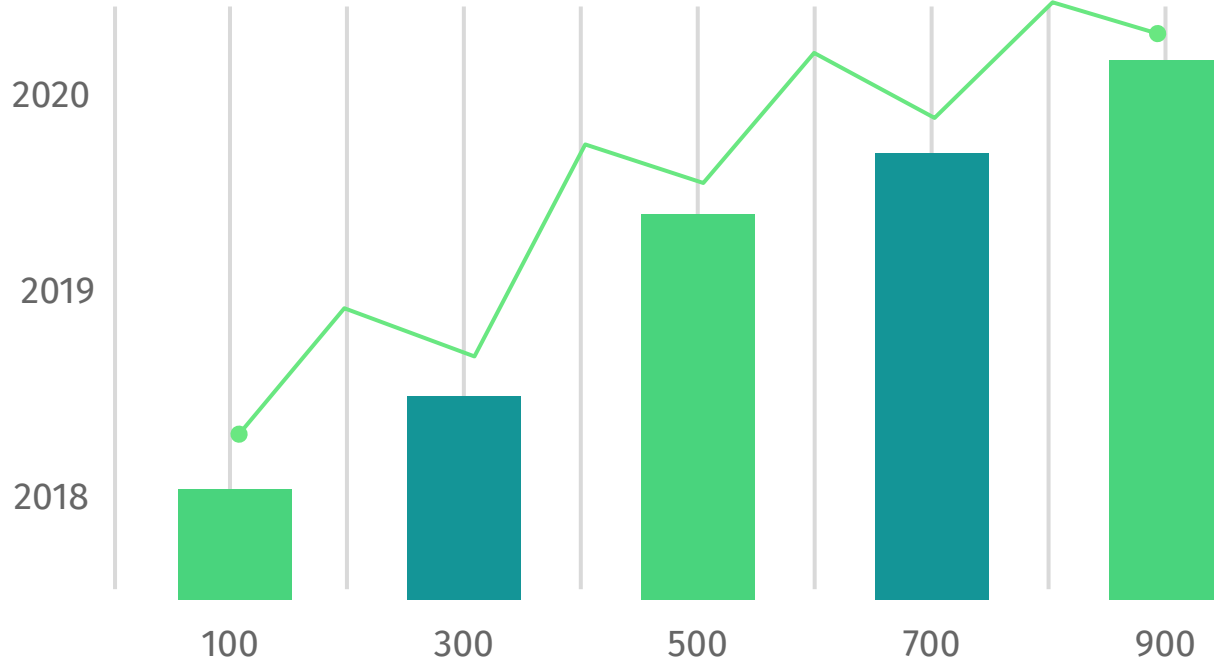


SATURN

Saturn is composed of hydrogen and also helium



Budget Infographics



MERCURY

Mercury is the smallest planet of all of them



MARS

Despite being red, Mars is actually a cold place

Budget Infographics



MERCURY

Mercury is the closest planet to the Sun and the smallest one



MARS

Despite being red, Mars is a very cold place full of iron oxide dust



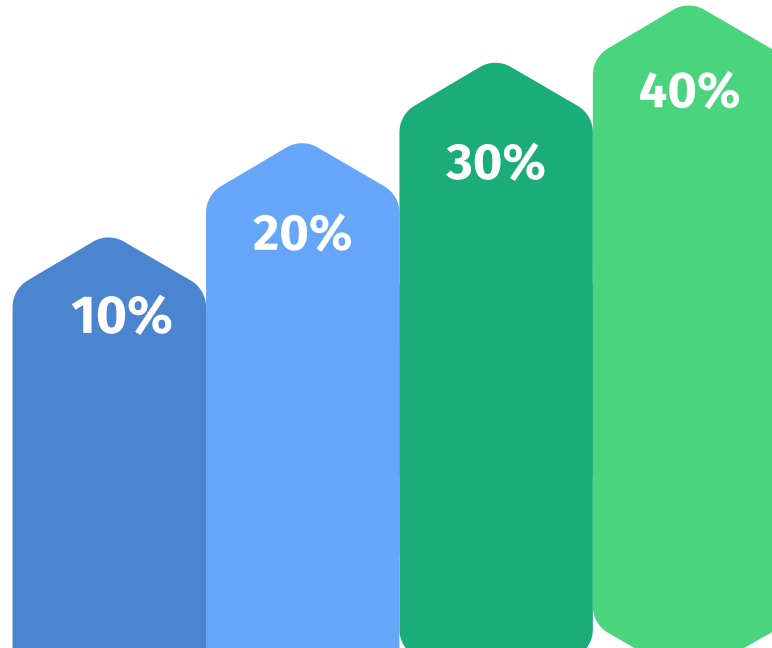
SATURN

Saturn is composed mostly of hydrogen and helium

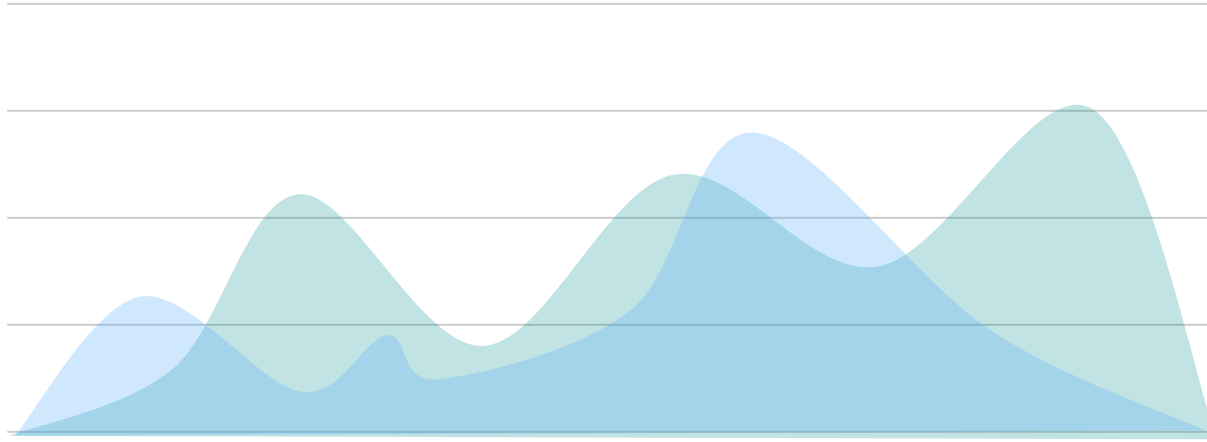


VENUS

Venus has a beautiful name and is the second planet from the Sun



Budget Infographics



MERCURY

Mercury is the closest planet to the Sun



MARS

Despite being red, Mars is a cold place



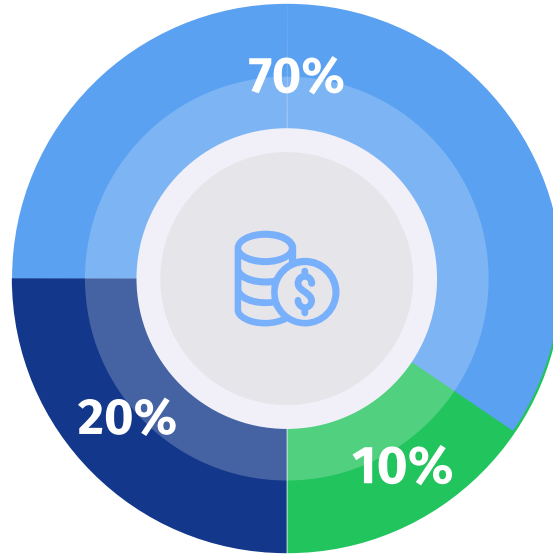
NEPTUNE

Neptune is the farthest planet

Budget Infographics

MERCURY

Mercury is the closest planet to the Sun and the smallest



JUPITER

Jupiter is a gas giant and the biggest planet of them all

VENUS

Venus has a beautiful name and is the second planet

Budget Infographics

MARS

Despite being red, Mars is a very cold place full of iron



VENUS

Venus has a beautiful name and is the second

MERCURY

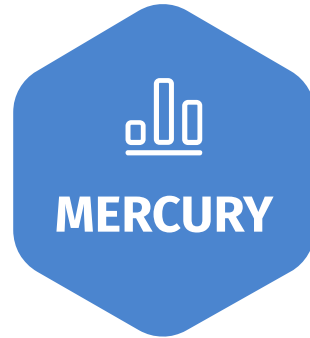
Mercury is the closest planet to the Sun and the smallest

JUPITER

Jupiter is a gas giant and the biggest planet

Budget Infographics

Mercury is the closest planet to the Sun and the smallest



Jupiter is the biggest planet in the Solar System

Despite being red, Mars is actually a very cold place



Saturn is composed of hydrogen and also helium

Budget Infographics



100,000,000



200,000,000



300,000,000

MARS

Despite being red, Mars is actually a very cold place

VENUS

Venus is the second planet from the Sun

JUPITER

Jupiter is a gas giant and the biggest planet

Budget Infographics

SATURN

Saturn is a gas giant and has several rings

MERCURY

Mercury is the closest planet to the Sun

VENUS

Venus is the second planet from the Sun



JUPITER

Jupiter is a gas giant and the biggest planet

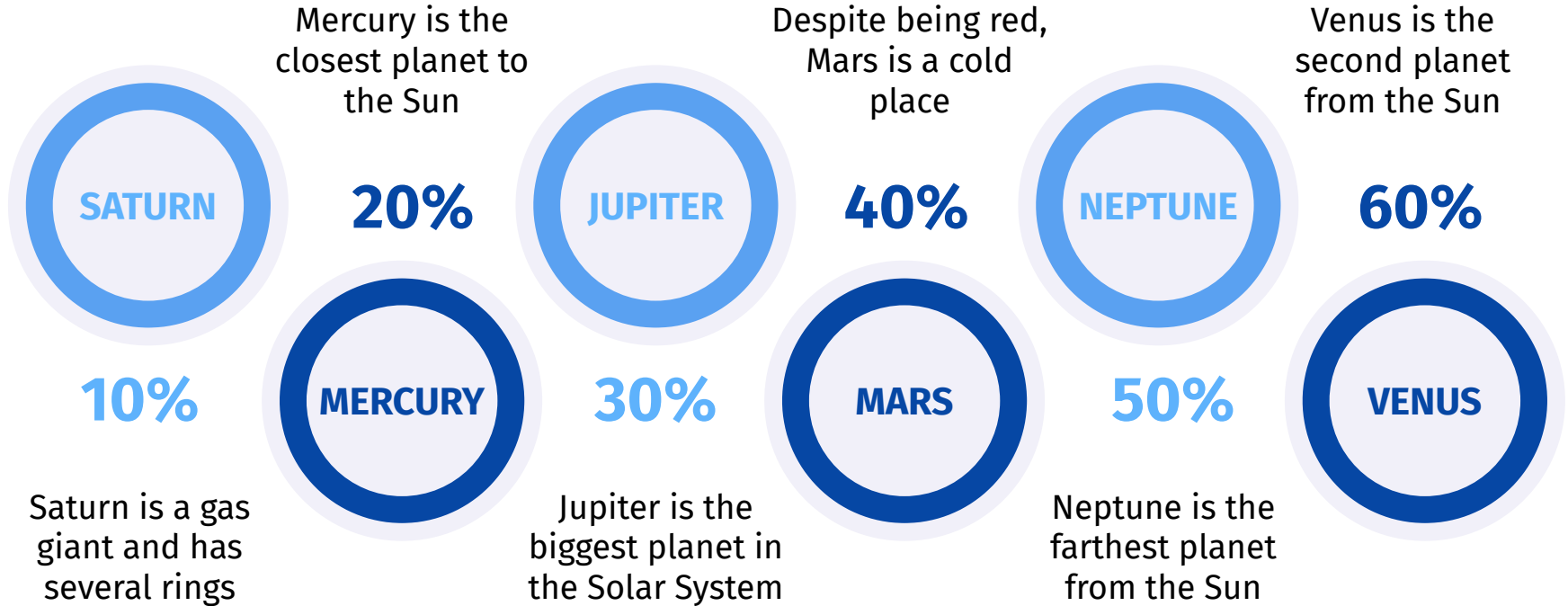
SATURN

Despite being red, Mars is actually a cold place

NEPTUNE

Neptune is the farthest planet from the Sun

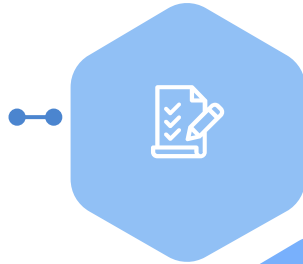
Budget Infographics



Budget Infographics

MARS

Despite being red, Mars is actually a cold place



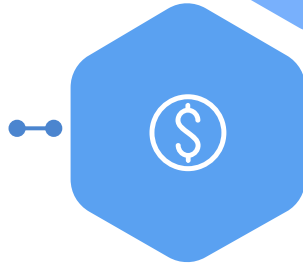
MERCURY

Mercury is the closest planet to the Sun



SATURN

It's composed of hydrogen and helium



OUR COMPANY



VENUS

Venus is the second planet from the Sun



JUPITER

Jupiter is the biggest planet of them all



NEPTUNE

Neptune is the farthest planet from the Sun



Budget Infographics

SATURN

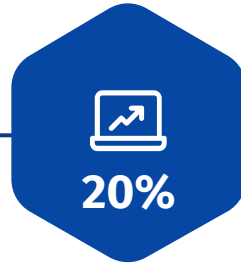
It's composed of hydrogen and helium

JUPITER

Jupiter is the biggest planet of them all

NEPTUNE

Neptune is the farthest planet from the Sun



MERCURY

Mercury is the closest planet to the Sun

MARS

Despite being red, Mars is a cold place

Budget Infographics



10%

SATURN

This gas giant has several rings



20%

JUPITER

Jupiter is the biggest planet



30%

MERCURY

Mercury is the smallest planet

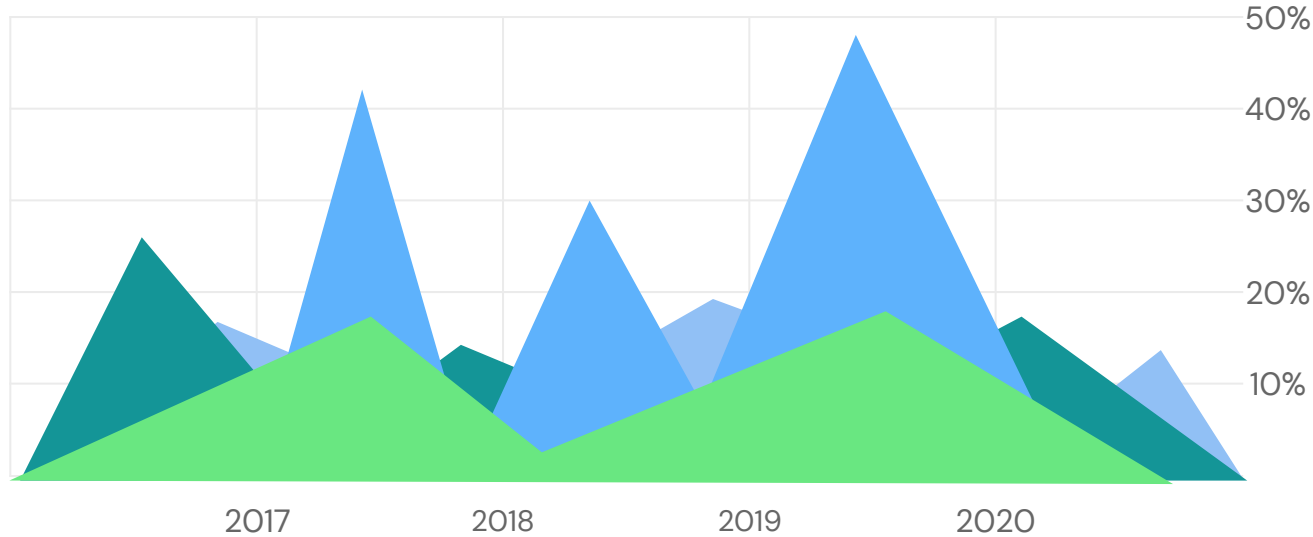


40%

MARS

Despite being red, Mars is a very cold

Budget Infographics



MERCURY

Mercury is the closest planet to the Sun

MARS

Despite being red, Mars is a cold place

SATURN

It's the only one with rings of all of them

NEPTUNE

It's the farthest one from the Sun

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