

DATA SCIENCE

O EMPREGO MAIS SEXY
DO SÉCULO 21

Olá!

Murilo de Oliveira do Nascimento

- 18 anos
- Ciência da Computação
- 3^a fase
- Bolsista Fab Lab



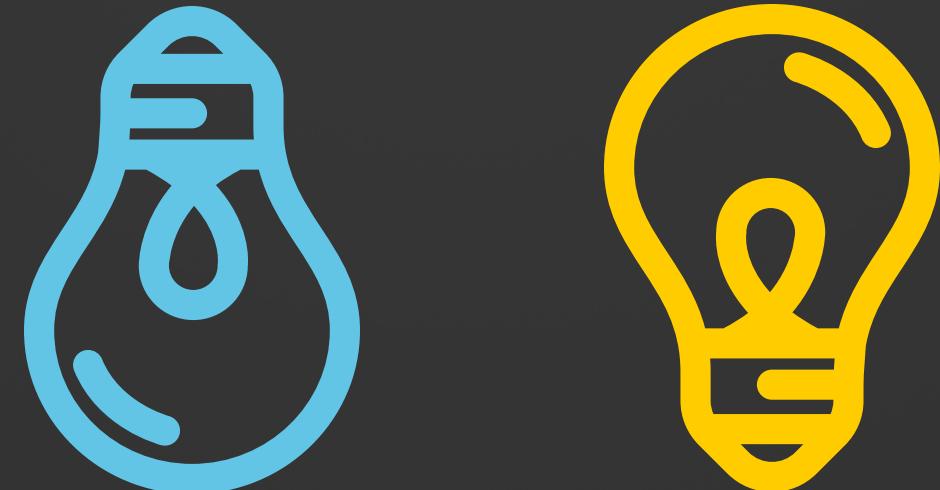
O QUE É DATA SCIENCE?

"Significa fazer perguntas em busca de profundos e ocultos padrões num oceano de dados de diversos formatos."



O QUE É DATA SCIENCE??

"É a produção de produtos de dados que respondem perguntas preditivas e que empoderem outros a usarem os dados."



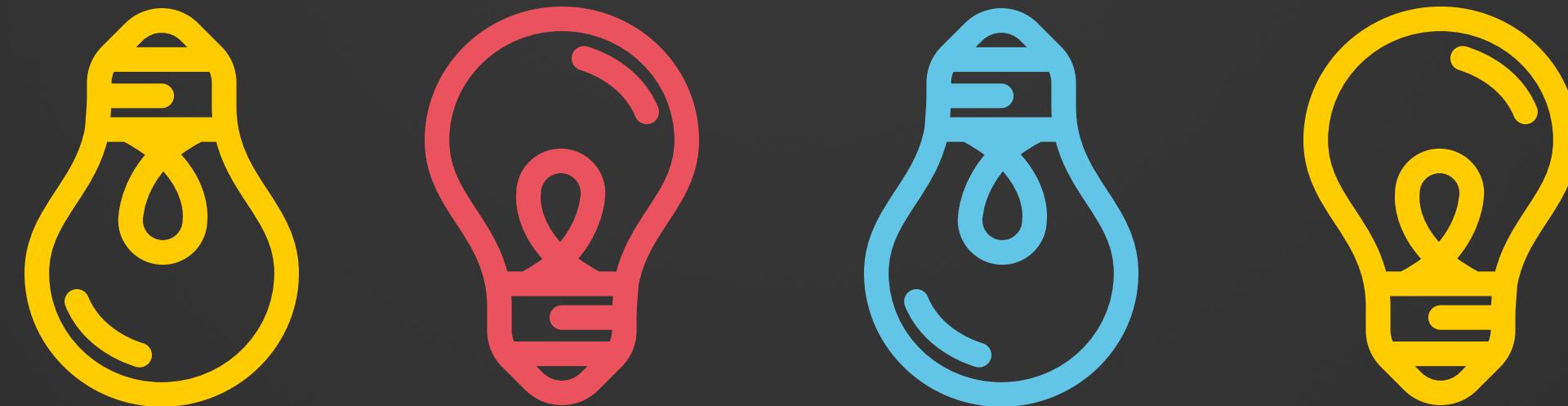
O QUE É DATA SCIENCE???

"É o envolvimento de um grande conjunto de áreas, que vai da armazenagem, extração e análise de dados, matemática, estatística, design, programação, negócios e pesquisa."



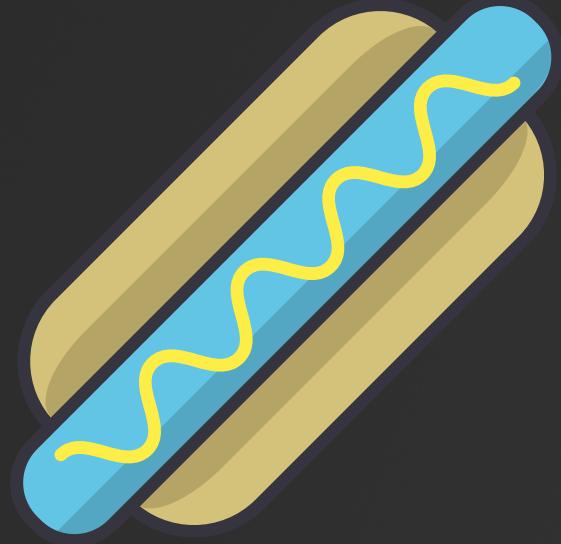
O QUE É DATA SCIENCE????

"É quando você consegue respostas preditivas."



Data science significa TUDO e
NADA ao mesmo tempo





~2010

Data Science
Artificial Intelligence
Machine Learning

2.500.000.000.000.000

bytes/dia

90% últimos dois anos



PRIMEIRA REGRA:

Não pergunte o que é
data science



Onde abrir sua loja?



- Detecção de Fraude



- Medicina Preditiva



- Recomendações



**"Que Brasil você quer
para o futuro?"**



Ciência de Dados

Ciência da Computação

Software
Tradicional

Aprendizado
de Máquina

Matemática e Estatística

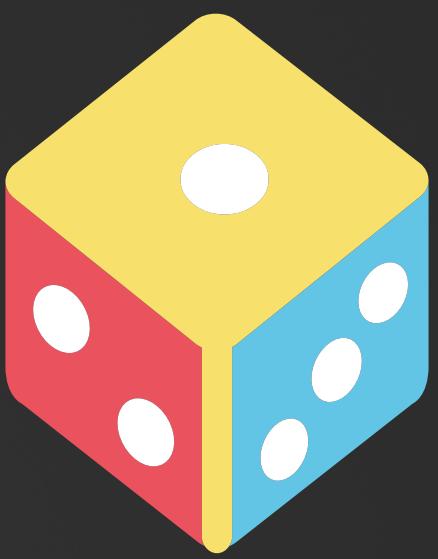
Pesquisa
Tradicional

Especialização Científica

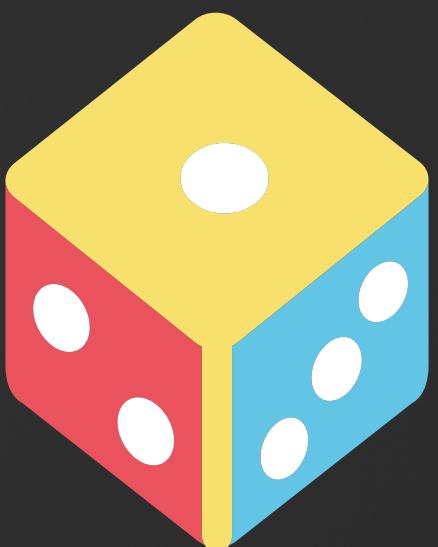


Alguma dúvida?
Alguma pergunta?

Mas como
que é feito?



DADOS



Fazer a pergunta correta!

Linguagem de Programação

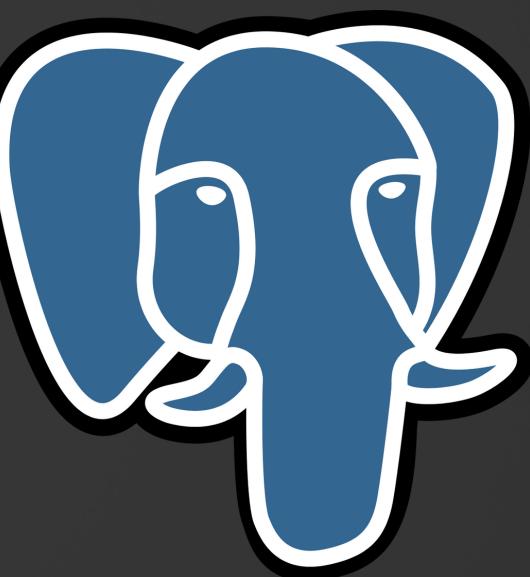


Coletar



Armazenar

Banco de Dados



Transformar :: Modelar

Existem padrões?



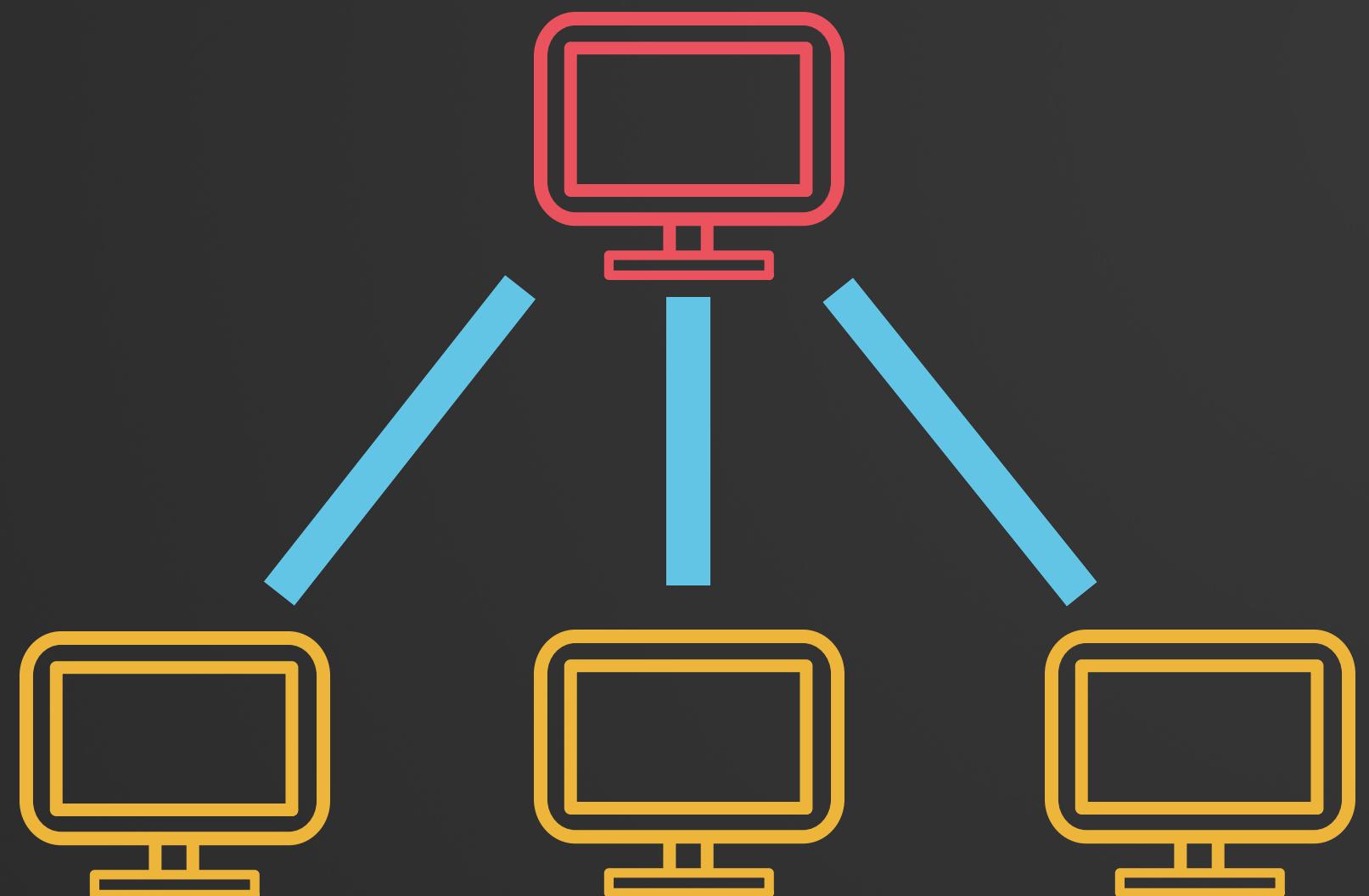
Pandas



Local System



Distributed System



Modelar



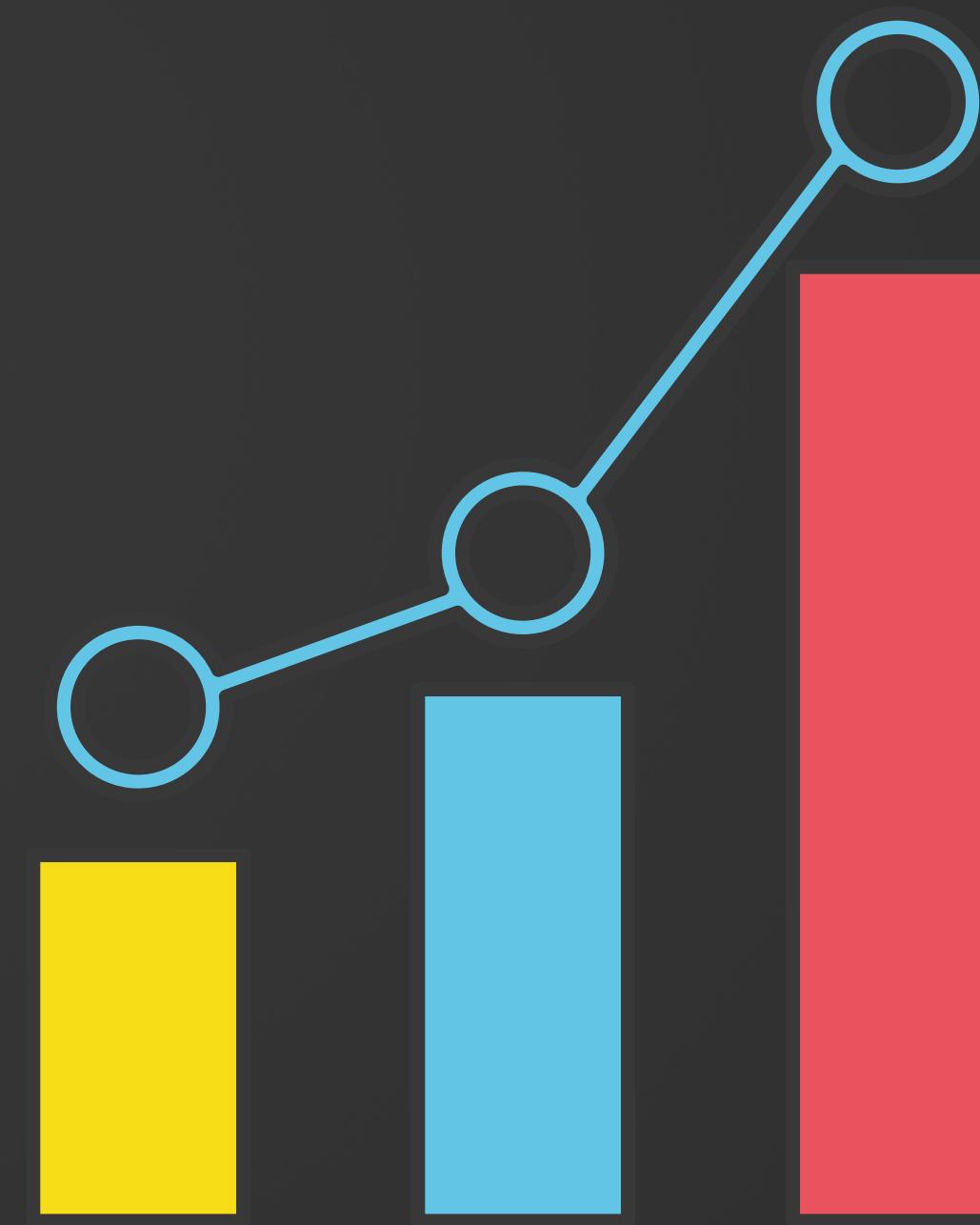
Pandas



APACHE
Spark™



Visualizar Resultados

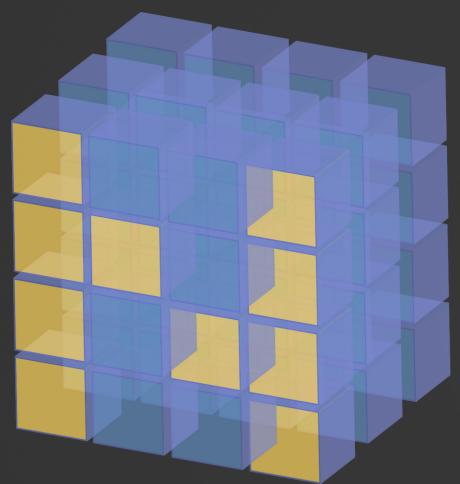
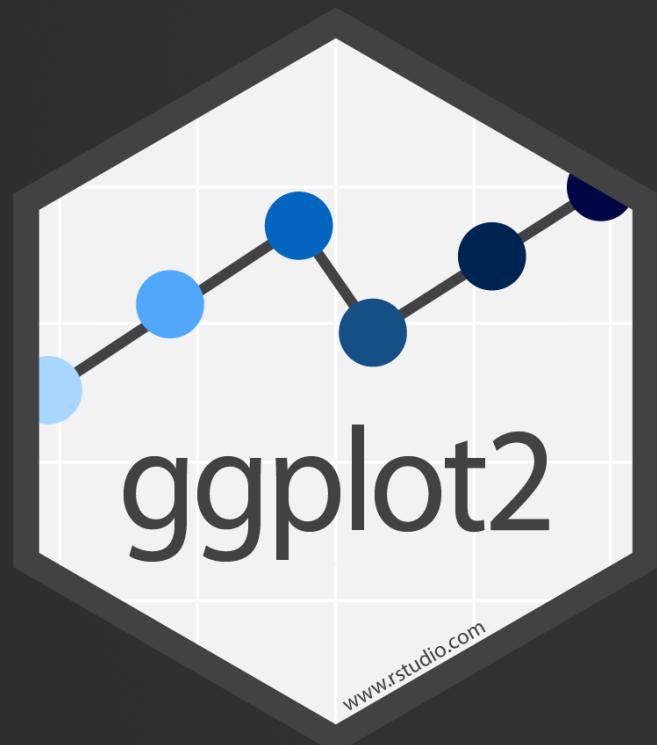




Alguma dúvida?

Alguma pergunta?

"I have enough tools, said no data scientist ever"

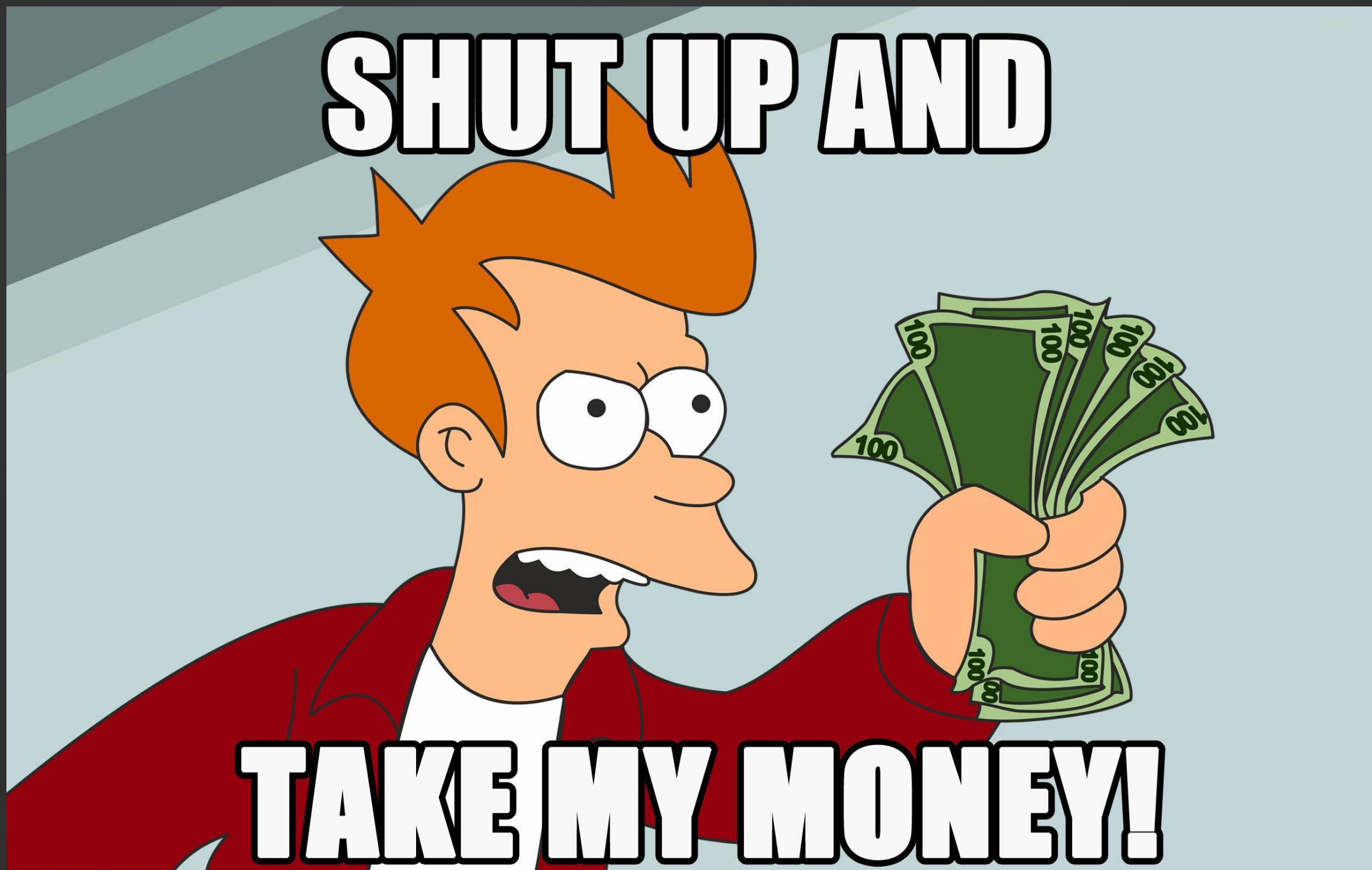


NumPy



IP[y]:
IPython

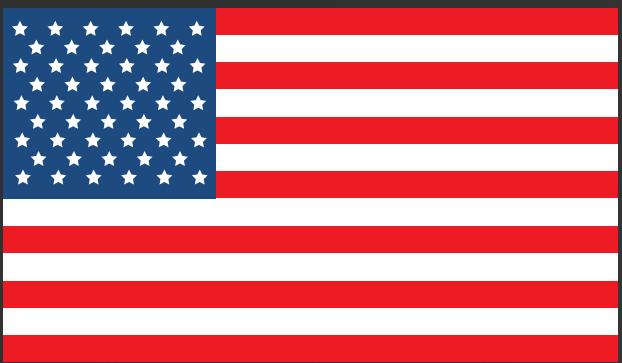
E cadê o money?



Mercado

O mercado ama cientistas de dados!





110 mil dólares/ano



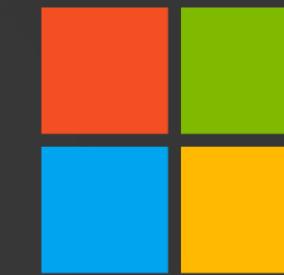
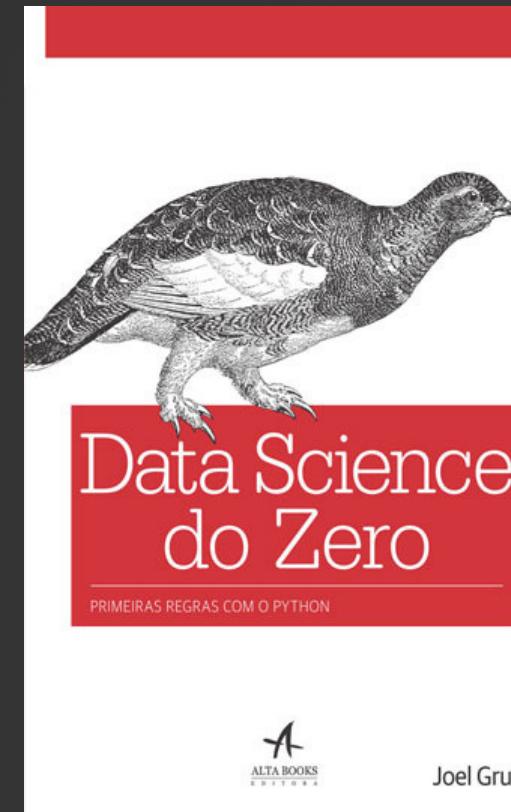
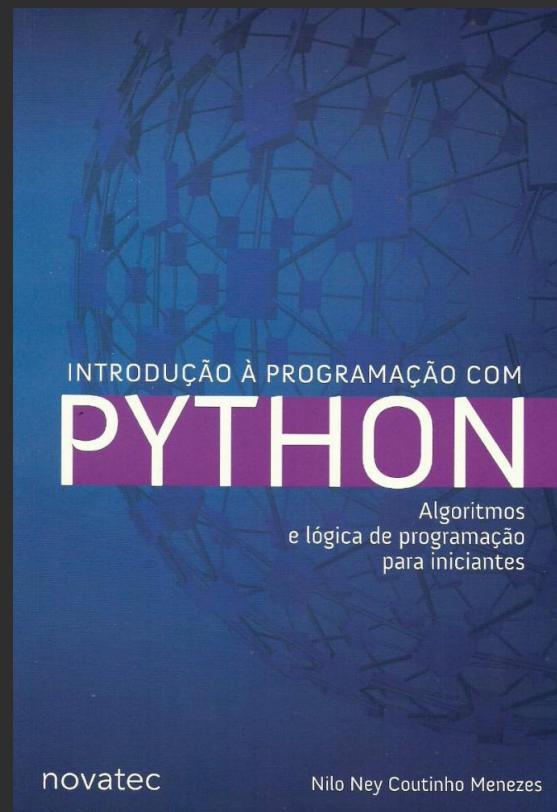
115 mil reais/ano



120 mil euros/ano



Recomendações

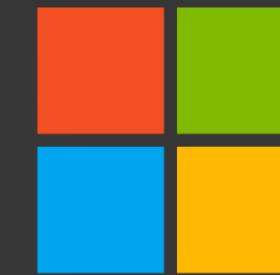
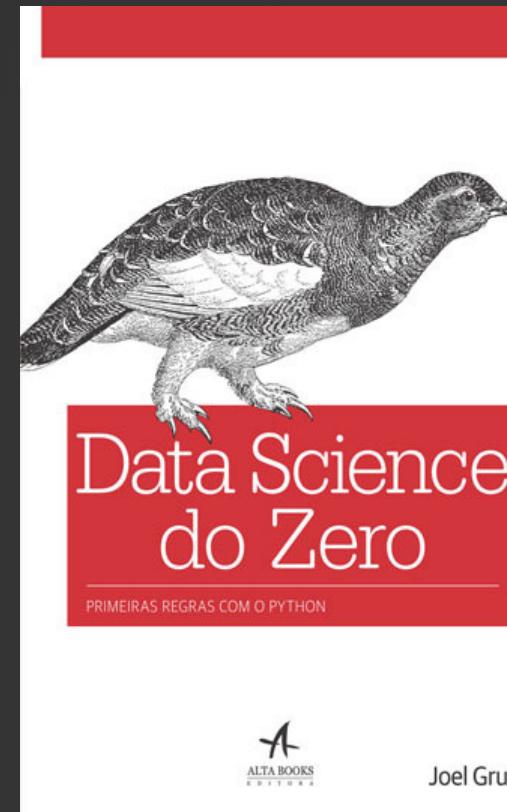
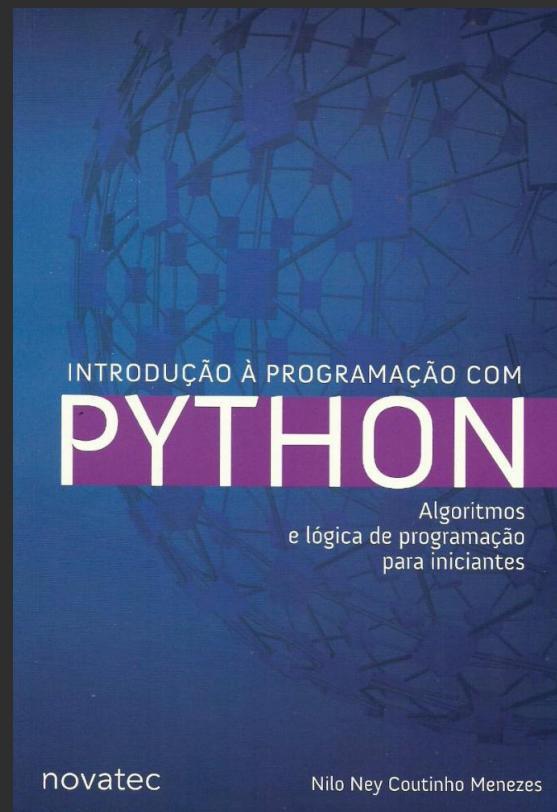


Microsoft



The thumbnail for the Udemy course 'Python for Data Science and Machine Learning Bootcamp' by Jose Portilla shows the Udemy logo at the top. Below it, there are three icons: a yellow Python logo, a laptop displaying a colorful scatter plot, and a blue brain icon. The course title 'Python for Data Science and Machine Learning Bootcamp' is in bold black font. Below the title, the author's name 'Jose Portilla • Data Scientist' is listed. A brief description follows: 'Learn how to use NumPy, Pandas, Seaborn , Matplotlib , Plotly , Scikit-Learn , Machine Learning, Tensorflow , and more!' At the bottom, course details are provided: '143 aulas', '21,5 horas', 'Todos os níveis', and a 'CC' symbol indicating closed captions.

Recomendações



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Motivação

The first 20 hours -- how to learn anything | Josh Kaufman

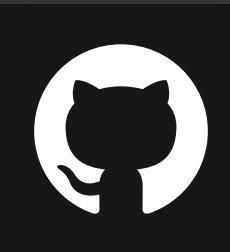


Valeu galera!

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