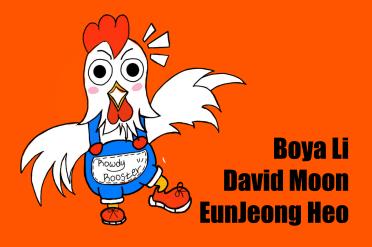
HOW WELL DO YOU KNOW THE WORLD?

AND WHY THINGS ARE
BETTER THAN YOU THINK



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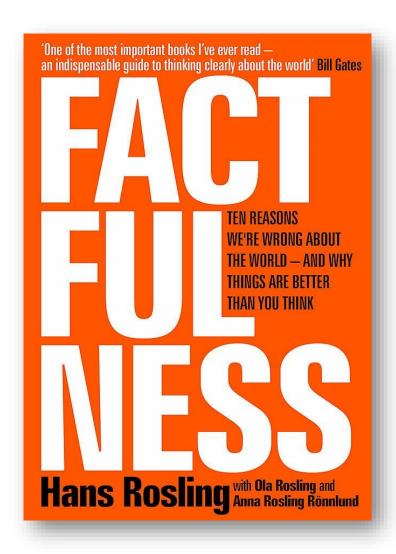


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06. Conclusion

Motivation



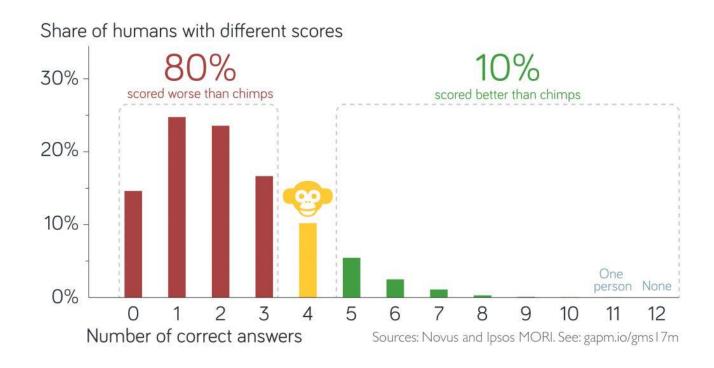
"

When asked simple questions about global trends, we systematically get the answers wrong. So wrong that a chimpanzee choosing answers at random will consistently outguess journalists, Novel laureates, and investment bankers.

-Factfulness-

"

Motivation



On average a chimpanzee picking answers randomly would score **4 out of 12** correct answers. But the average score for the humans was much lower: only **2.2**!

Quiz

Top 3 wrong answer rate	Correct	Wrong
Q1. In all low-income countries across the world today, how many girls finish primary school? → 60 %!	10%	6
Q3. In the last 20 years, the proportion of the world population living in extreme poverty has → Almost halved	5% 95 %	6
Q5. There are 2 billion children in the world today, aged 0 to 15 years old. How many children will there be in the year 2100, according to the United Nations → 2 billion!	10% 90 9	6

Question to Answer



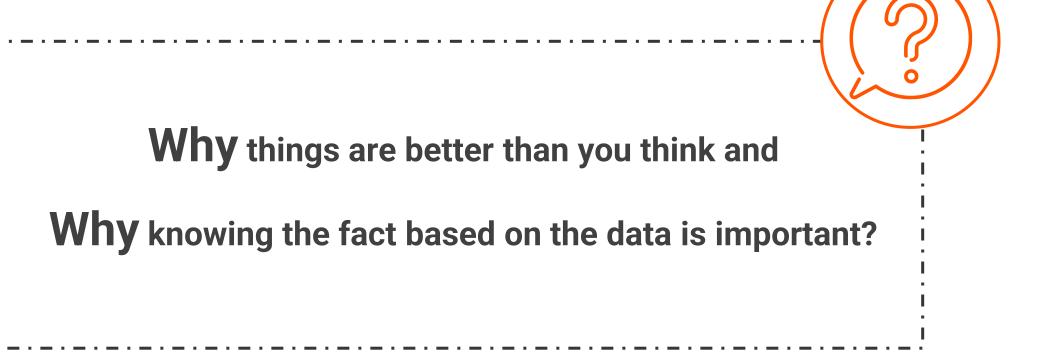
The wrong answers tend to lean in one (negative) direction.

All the groups asked considered the world **a scarier, more violent and more hopeless place** than it really is.

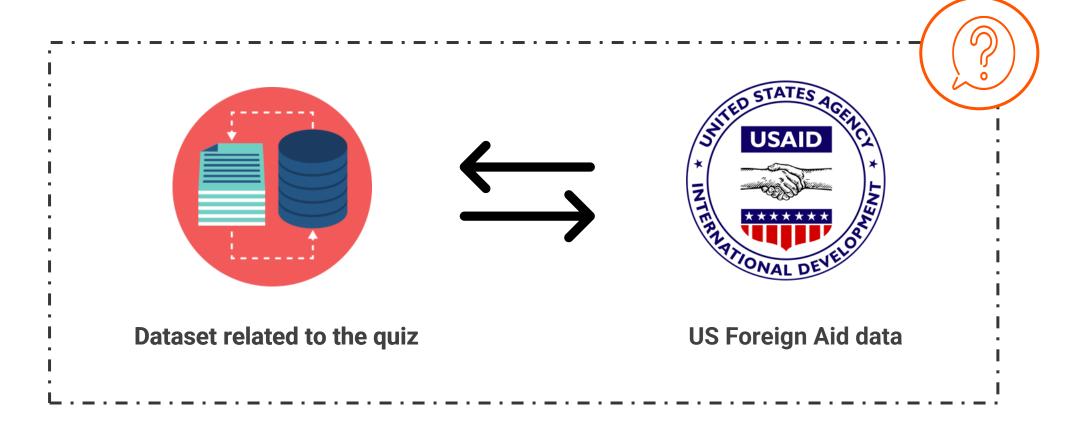
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how those decision-makers who work in the government sector, NGO or leader can make decisions wisely?

Question to Answer



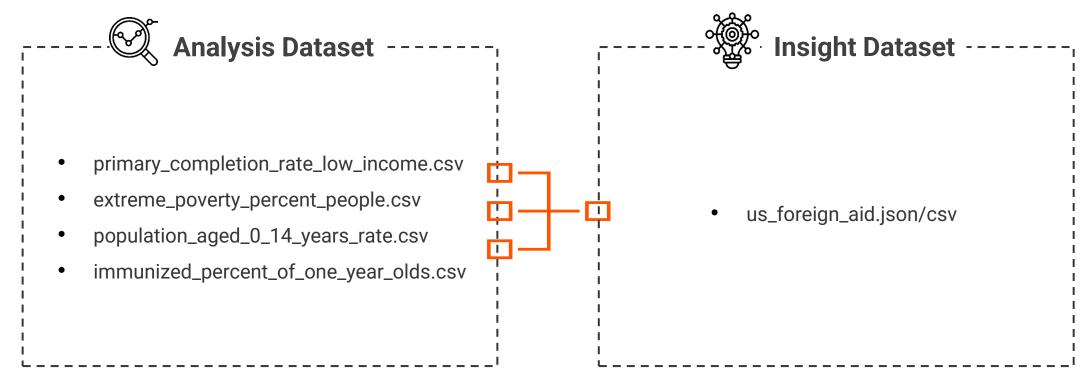
Question to Answer

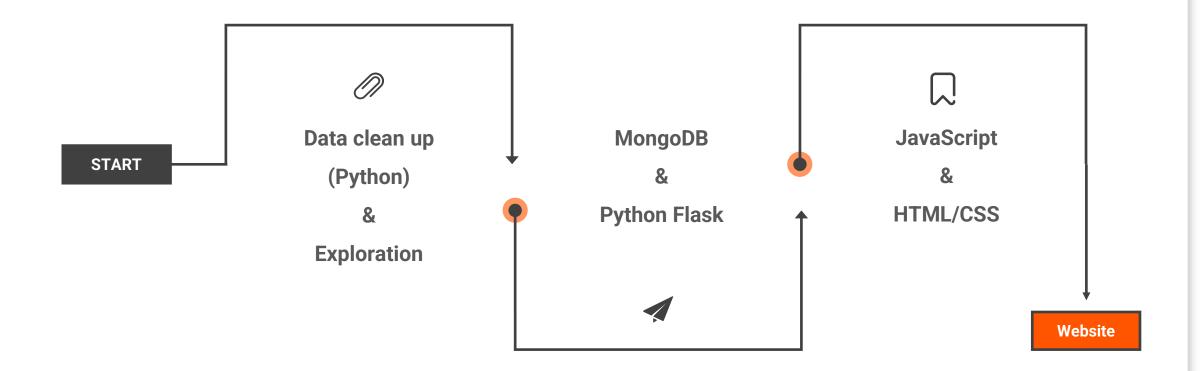


Is there any correlation or discrepancy between the statistics and US Foreign Aid?

03. Dataset Summary







Dataset Manipulation

```
import json
     import pandas as pd
    df = pd.read csv("us foreign aid.csv")
6 ∨ def translate(df):
         result = {}
         for i, row in df.iterrows():
             if row["US Category Name"] not in result:
                 result[row["US Category Name"]] = {}
                result[row["US Category Name"]].update({
                     row["Fiscal Year"]:row["current amount"]
                 })
             else:
                 result[row["US Category Name"]].update({
                 row["Fiscal Year"]:row["current amount"]
         return result
     print(translate(df))
23 v with open("us foreign aid.json", "w") as f:
         json.dump(translate(df), f)
```

	US Category ID	US Category Name	US Sector ID	US Sector Name	Country Code	Country Name	Transaction Type ID	Transaction Type Name	Fiscal Year	current_amount	constant_amount
0	1	Peace and Security	1	Counter- Terrorism	AFG	Afghanistan	2	Obligations	2005	23438722	30242298
1	1	Peace and Security	1	Counter- Terrorism	AFG	Afghanistan	2	Obligations	2006	13304784	16634308

{"Democracy, Human Rights, and Governance": {"2001": 1819754930, "2002": 1188103258, "2003" "Economic Development": {"2001": 1943428218, "2002": 3397378579, "2003": 3099851697, "2004 "Education and Social Services": {"2001": 1258360924, "2002": 1300460812, "2003": 17757900



Python - Pandas

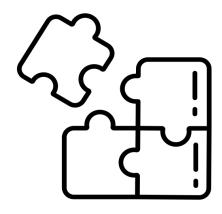
Build a Database

```
from flask import Flask, render_template
from flask.json import jsonify
from datetime import datetime
from flask cors import CORS
# Import our pymongo library, which lets us connect our Flask app to our Mongo database.
import pymongo
import json
import pandas as pd
app = Flask(__name__)
CORS(app)
# Create connection variable
conn = 'mongodb://localhost:27017'
client = pymongo.MongoClient(conn)
@app.route('/api')
def get_data():
    db = client.poverty db
    try:
        q = db.poverty.find({})
        docs = [doc for doc in q]
        print(len(docs))
        return jsonify(docs)
    except Exception as e:
        return jsonify({"message":e})
```

Import our pymongo library, which lets us connect our Flask app to our Mongo database



- Python flask, jsonify
- MongoDB



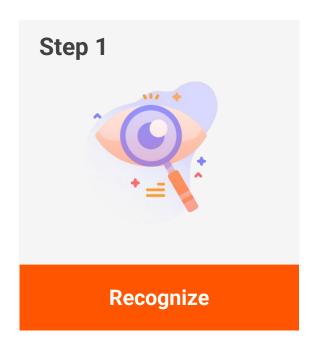
Additionally Built with...

- Plotly/D3 JavaScript
- HighCharts Interactive JavaScript charts library
- Surveyjs.io customizable surveys, forms and quizzes that seamlessly integrate into your application



05. Data Analysis





Recognize that the world isn't as bad as I thought



Do your analysis

Dramatic Instincts

1 The gap instinct



Look at the gap!

3 The Straight Line Instinct



It just continues!

It's big!

5 The Size Instinct

2 The Negativity Instinct



It's getting worse!

4 The Fear Instinct



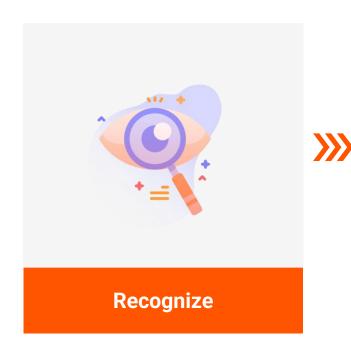
6 The Generalization Instinct

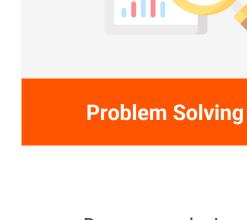


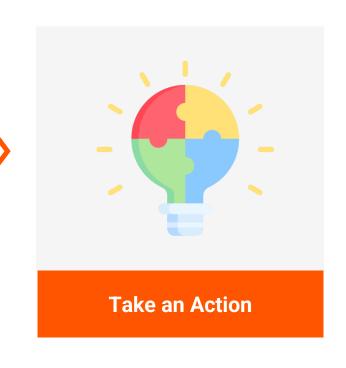
They are all the same!



See the world in multiple angles!



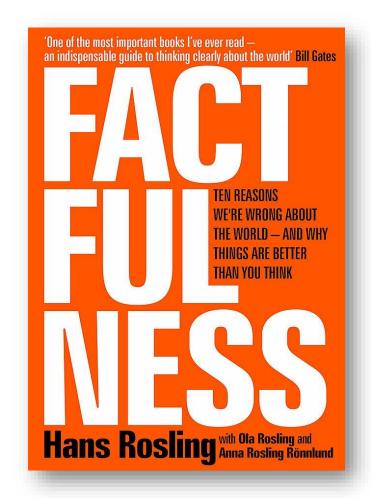




Recognize that the world isn't as bad as I thought

Do your analysis

See the world in multiple angles





All 13 questions are here

55

Do you like to know more about the world you live in?

Read this book!

Thank you!

Q&A?



Reference

- Rosling, H., Rosling, O., & Rönnlund, A. R. (2019). Factfulness: ten reasons we're wrong about the world and why things are better than you think
- Gapminder : https://www.gapminder.org/
- World Bank : https://data.worldbank.org/
- UNESCO Database : http://data.uis.unesco.org/