

# **How to ruin kids games with Machine Learning**

# ~~How to ruin kids games with~~ ~~Machine Learning~~

**How to beat a small child at  
Guess Who**

**MB**  
GAMES



**7-Adult**  
**2 players**

Who does your  
opponent's card show?  
Ask the right questions  
and you'll eliminate the  
wrong cards!

"No, he doesn't have  
yellow hair." "Yes, he is  
wearing glasses."

Use clever deduction,  
take a few chances and, if  
you're right, you'll end up  
the winner!

# GUESS WHO

The  
mystery-face  
game

275  
\$1.00



Each player chooses a card for the other to guess. Now  
ask your first question.



Does he have blue eyes? No, then eliminate all the  
blue-eyed people...



Yes!

Is it Alex?

You're down to three cards. Ask the right question and  
you'll discover your opponent's card.

**Build a machine learning powered robot that could analyse the characters and come up with its own questions and use the optimal strategy to WIN against any opponent**

**Find the best strategy to  
probably win a game of  
Guess Who using brute force  
and no robots**

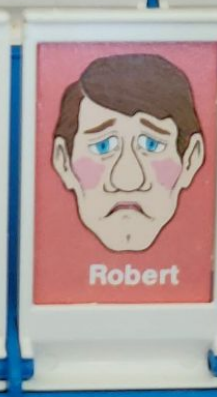
# Part 1

## Facial Feature Identification

# Part 2 Robot

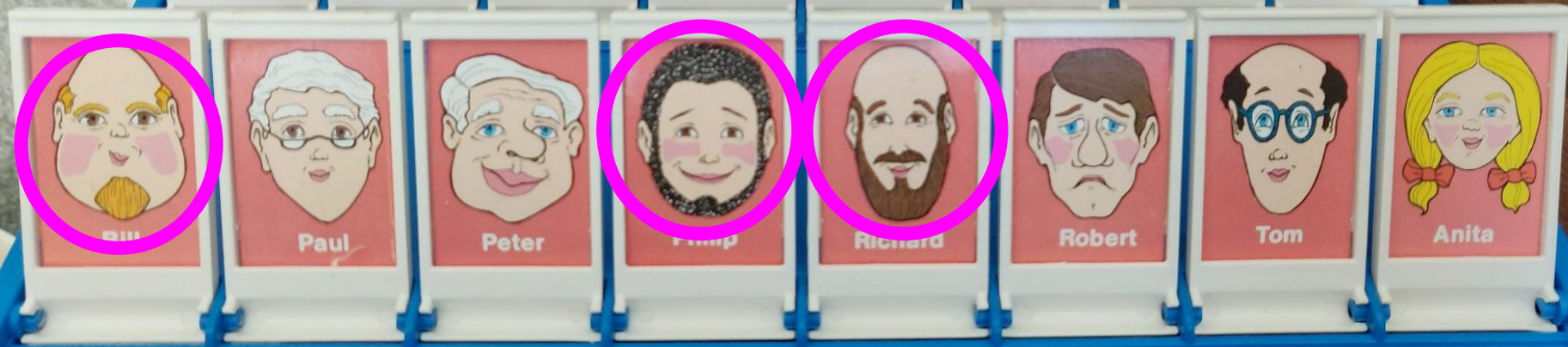


# Part 3 Questioning Strategy







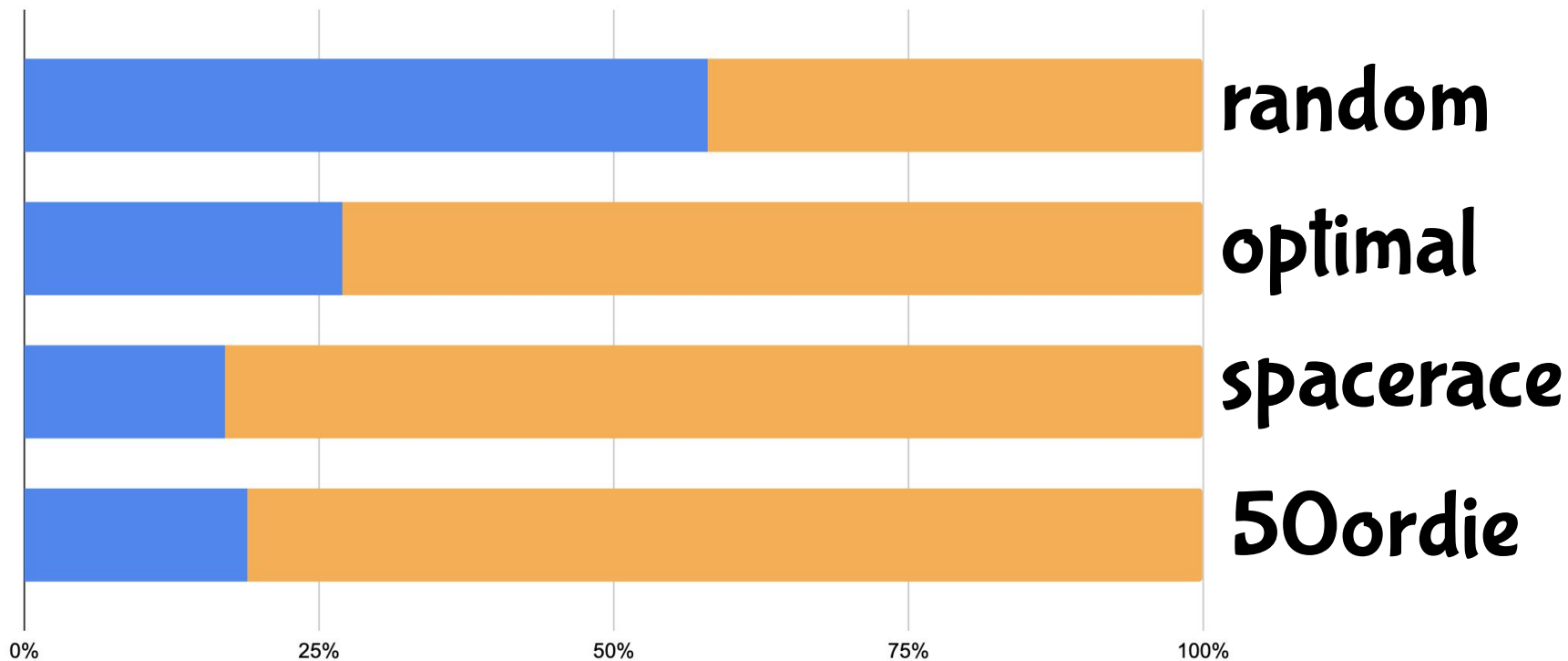


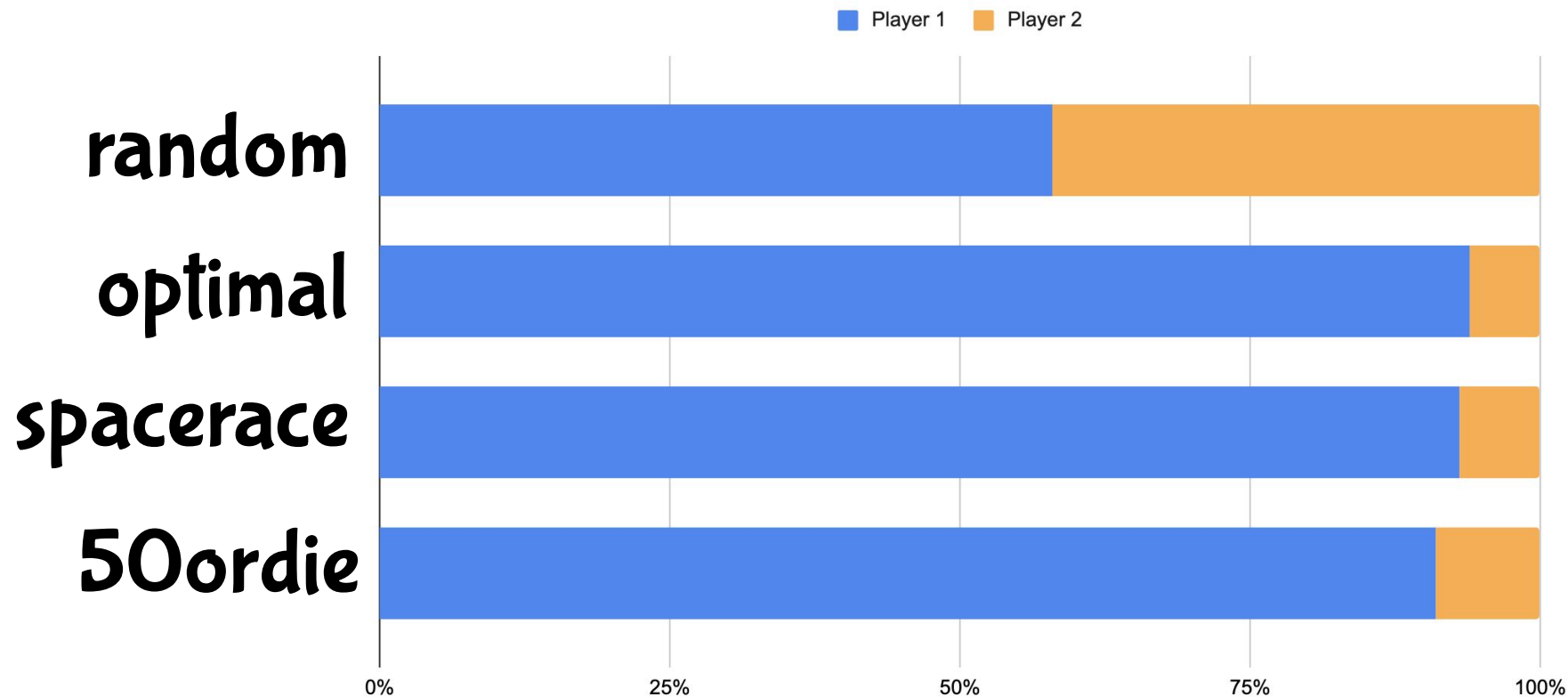






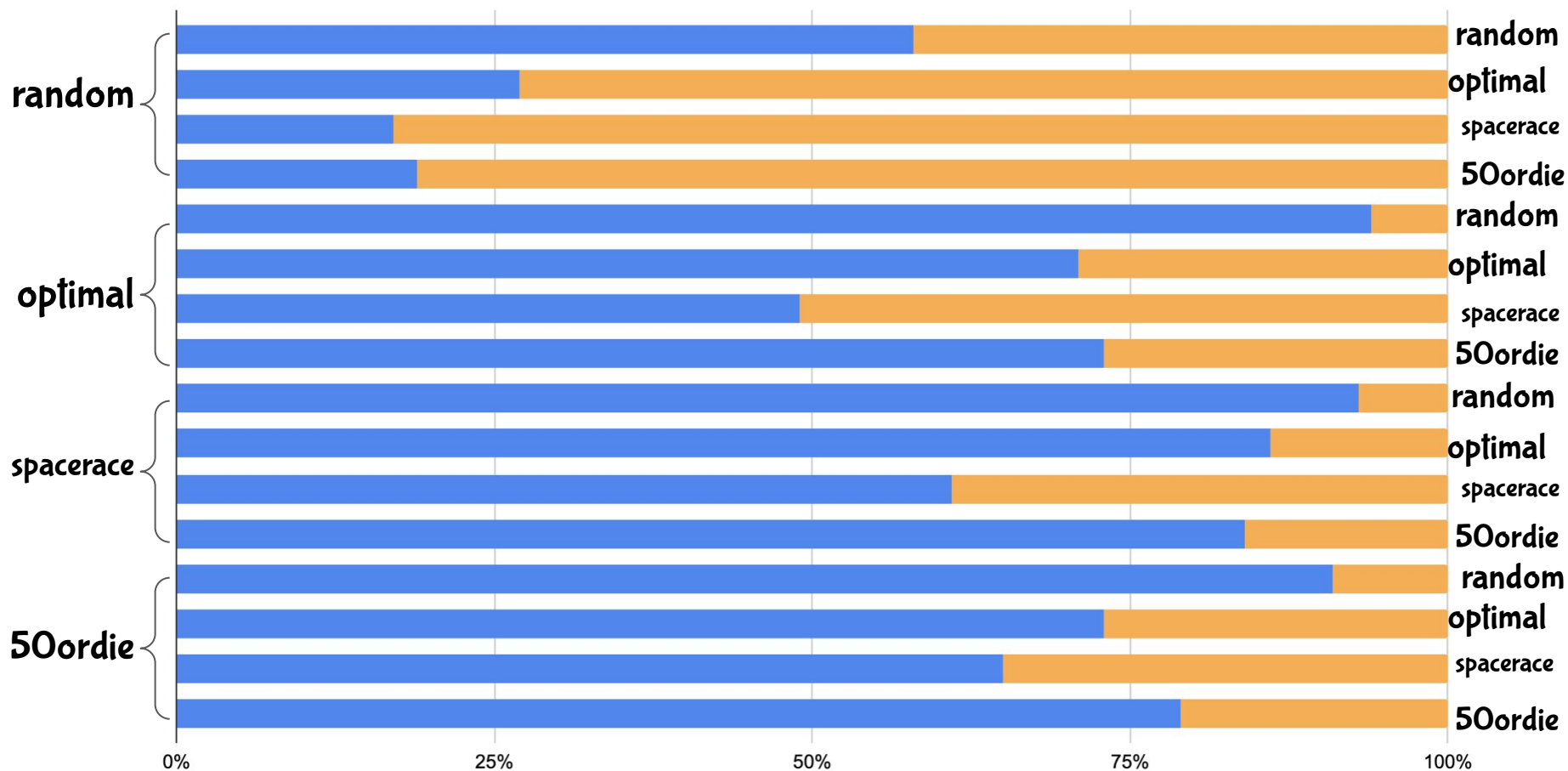
■ Player 1 ■ Player 2







■ Player 1 ■ Player 2



**The best strategy?**

**Be Player 1**

# The End

thanks