



Final Project Mock-Up: Police Stop Data (RIPA) – Exploratory Dashboard

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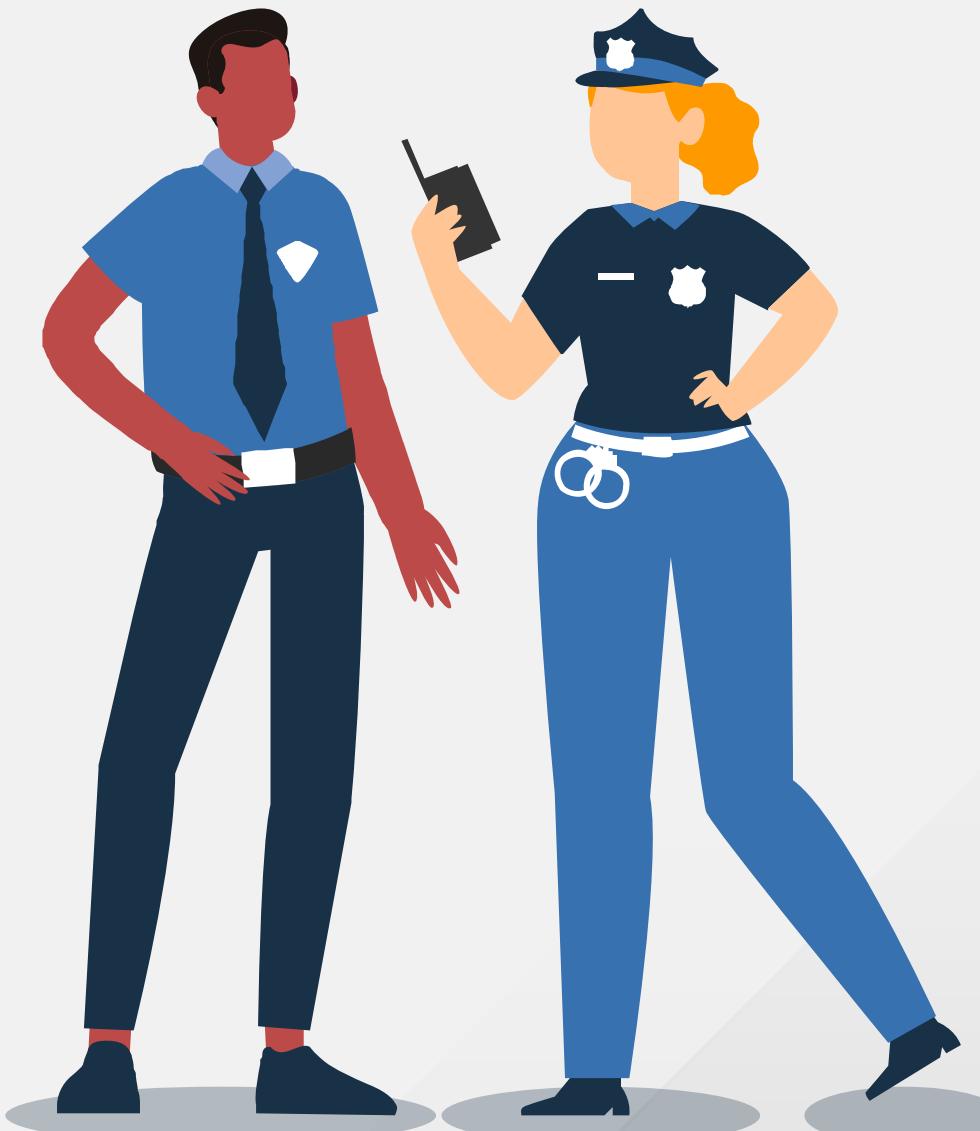




TABLE OF CONTENTS

01

INTRODUCTION

02

DATA DESCRIPTION

03

RESEARCH QUESTIONS

04

DASHBOARD & DESIGN DECISIONS

INTRODUCTION

Data collected under California's Racial and Identity Profiling Act (RIPA) aims to enhance the transparency, accountability, and fairness of policing.



Dataset Purpose

Records all law enforcement stops to analyze potential racial or identity bias, supporting public policy evaluation and community oversight.



Data Content

Each record represents a police stop, including the demographic characteristics of the person stopped, stop circumstances, officer actions, and outcomes (e.g., citation or arrest).



Social Significance

Crucial for social justice research, helping identify patterns of bias, guiding policing strategy reforms, and promoting fairness in law enforcement.



Dataset Description



Data Source

Provider: California Department of Justice – OpenJustice Portal

Version: Police Intercept Data (RIPA) V2

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Scale: Millions of intercept records annually

Data Format

Available in [CSV](#), [JSON](#), [Excel](#), [Parquet](#) formats, supporting API access for automated data retrieval. The data is **microdata**, with an event-based structure, detailed enough for temporal, geographical, and behavioral analysis.

1

Demographic Variables

Characteristics of the individual stopped, such as race, gender, age group, perceived disability status, etc.

2

Intercept Context

Situational data including date/time, location, reason for stop, type of enforcement, etc.

3

Officer Actions

Records of enforcement measures such as searches, handcuffing, use of force, property seizure, etc.

4

Intercept Outcomes

Final disposition results such as warning, citation, arrest, or no action.



RESEARCH QUESTIONS



RQ1

Are police stop outcomes different across racial groups?



RQ2

Are certain racial groups more likely to be searched during police stops?



RQ3

Does the probability of finding contraband vary by race?



DASHBOARD & DESIGN DECISIONS

RQ1. Are police stop outcomes different across racial groups?

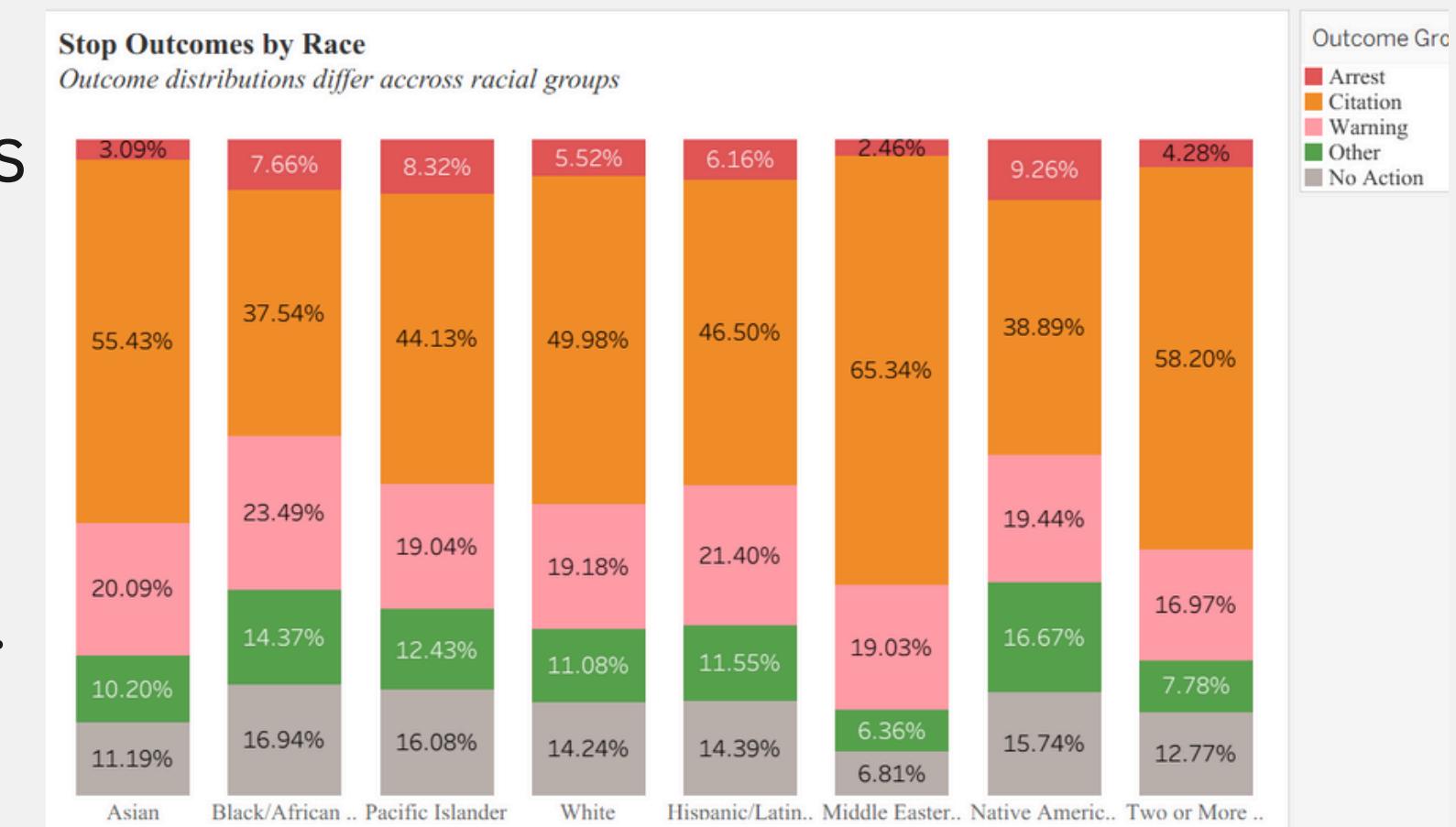
Stop Outcomes by Race 100% Stacked Bar Chart

Purpose:

Compare police stop outcomes across racial groups (RQ1).

Why This Chart:

- Shows proportions clearly across groups.
- Color coding distinguishes outcome categories.
- Race on x-axis highlights cross-group differences.
- Reduces clutter by using grouped/simplified outcomes.
- Avoids pie charts for clearer proportional comparison.



Race is recorded based on the officer's perception during the stop



RQ2. Are certain racial groups more likely to be searched during police stops?

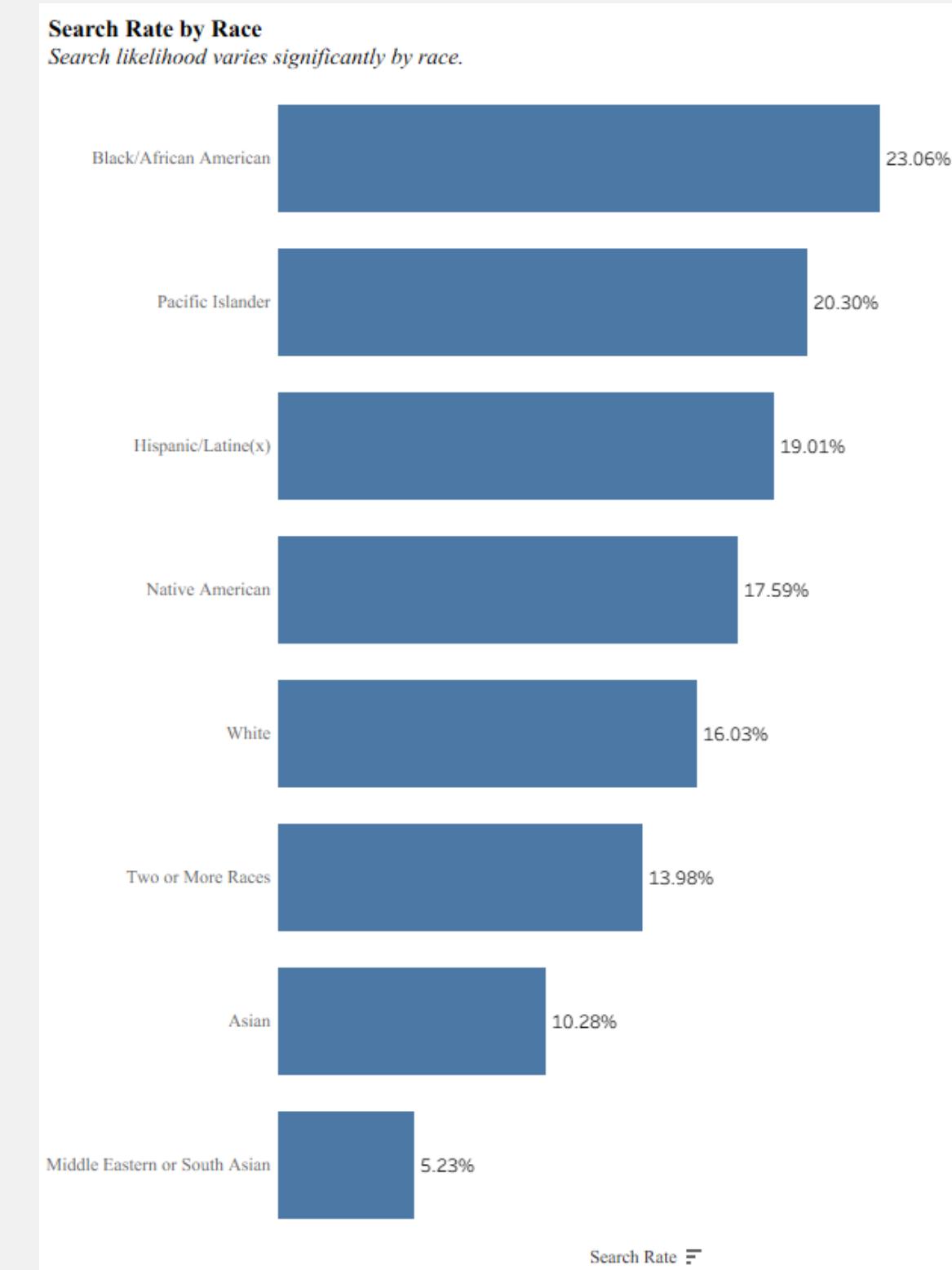
Search Rate by Race Bar Chart (Percentage)

Purpose:

To identify whether certain racial groups are more likely to be searched (RQ2).

Why This Chart:

- Bar charts show search likelihood (%) clearly across racial groups.
- Percentage normalization removes bias from unequal stop counts.
- Minimalist design (no gridlines or clutter) improves quick comparison.
- One-color bars maintain a clean, consistent visual style across the dashboard.





RQ3. Does the probability of finding contraband vary by race?

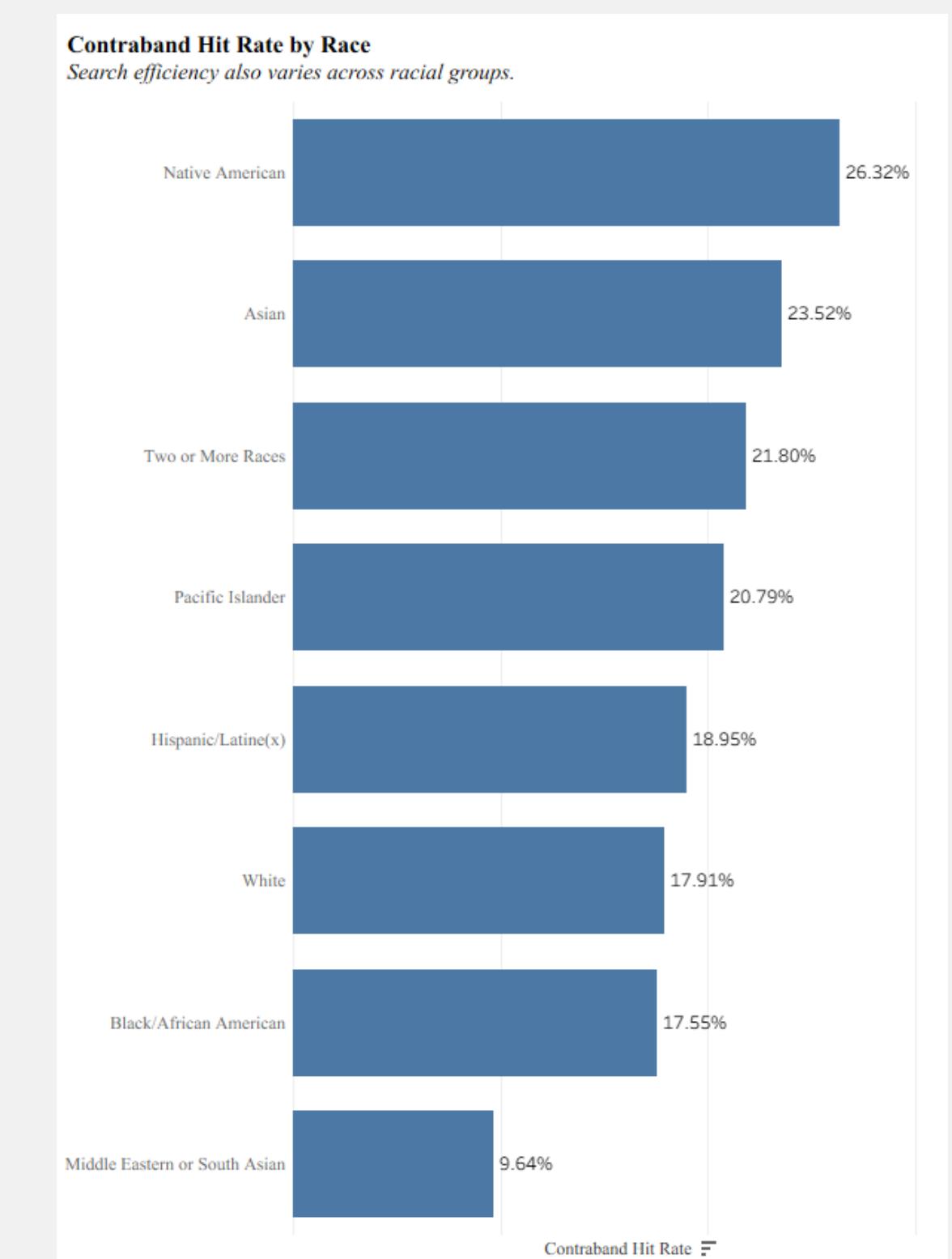
Contraband Hit Rate by Race Bar Chart (Percentage)

Purpose:

To measure search efficiency and compare contraband hit rates across racial groups (RQ3).

Why This Chart:

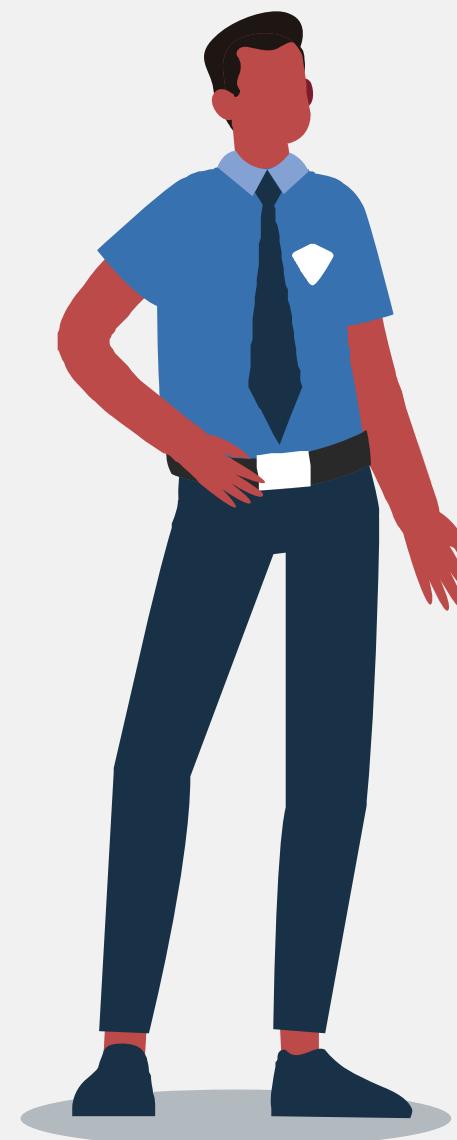
- Bar chart highlights hit rate differences directly and clearly.
- Single-color design emphasizes the metric without distraction.
- Simplified layout (no unnecessary borders or elements) improves readability.
- Vertical bars make it easy to see which groups have higher or lower hit rates.





REFERENCE

Long Beach Police Department. (2021, December 3). Police stop data (RIPA) V2. Long Beach Open Data Portal.
<https://data.longbeach.gov/explore/dataset/police-stop-data-ripa-copy>



THANKYOU

