

Updated Findings and Visualizations

Stack Overflow Developer Survey

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# IT Trends Report- 2025

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# OUTLINE

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- Executive Summary
- Introduction
- Methodology
- Results & Visualizations
- Dashboard Insights
- Discussion
- Findings & Implications
- Conclusion
- Appendix

# EXECUTIVE SUMMARY

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- Contextualizing data and defining analysis goals.
- Describing methodology and data gathering process.
- Performing exploratory data analysis and visualizations.
- Presenting key results and trends through graphs.
- Discussing findings and their broader implications.
- Concluding with insights into developer trends.

# INTRODUCTION

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- Describing methodology and data gathering process.
- Performing exploratory data analysis and visualizations.
- Presenting key results and trends through graphs.
- Discussing findings and their broader implications.
- Concluding with insights into developer trends.

# METHODOLOGY

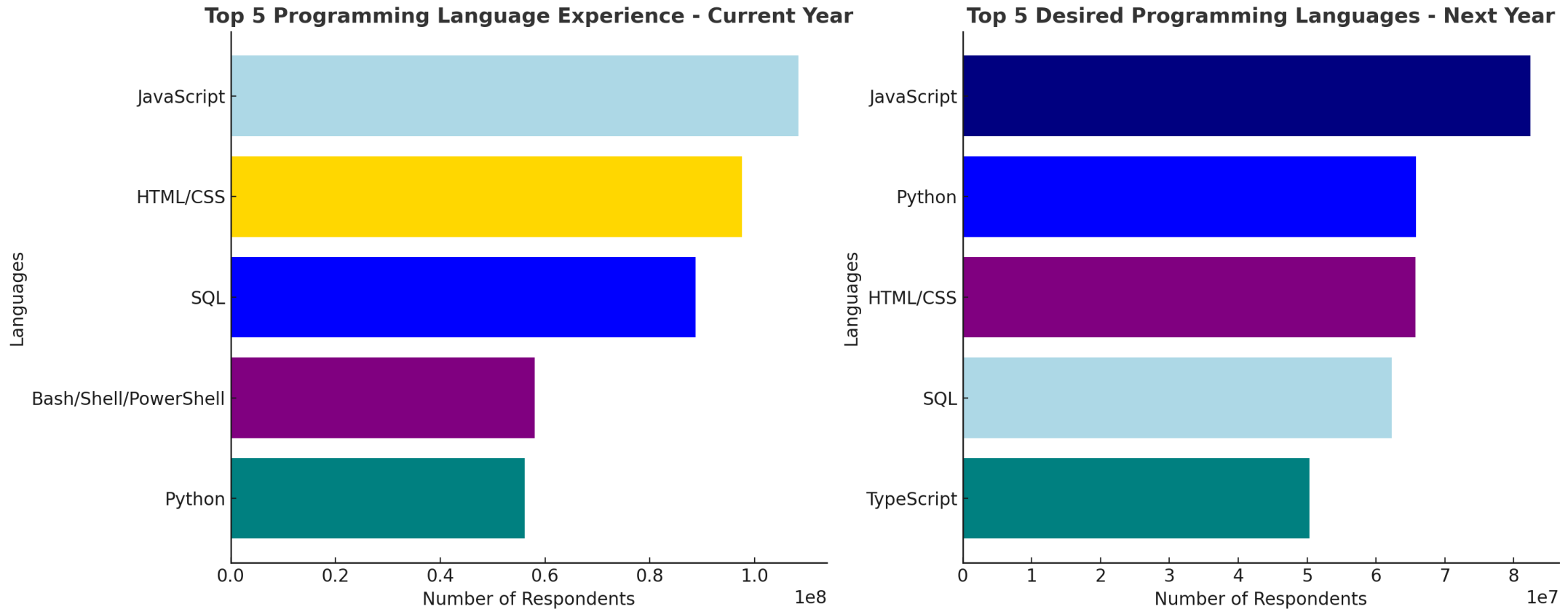
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- Data Collection:
  - Survey responses from developers.
  - API and Web Scraping for additional insights.
- Data Analysis:
  - Data wrangling and cleaning.
  - Handling missing values and outliers.
  - Performing correlations and exploratory analysis.
- Data Visualization:
  - Highlighting key insights using visual representations.

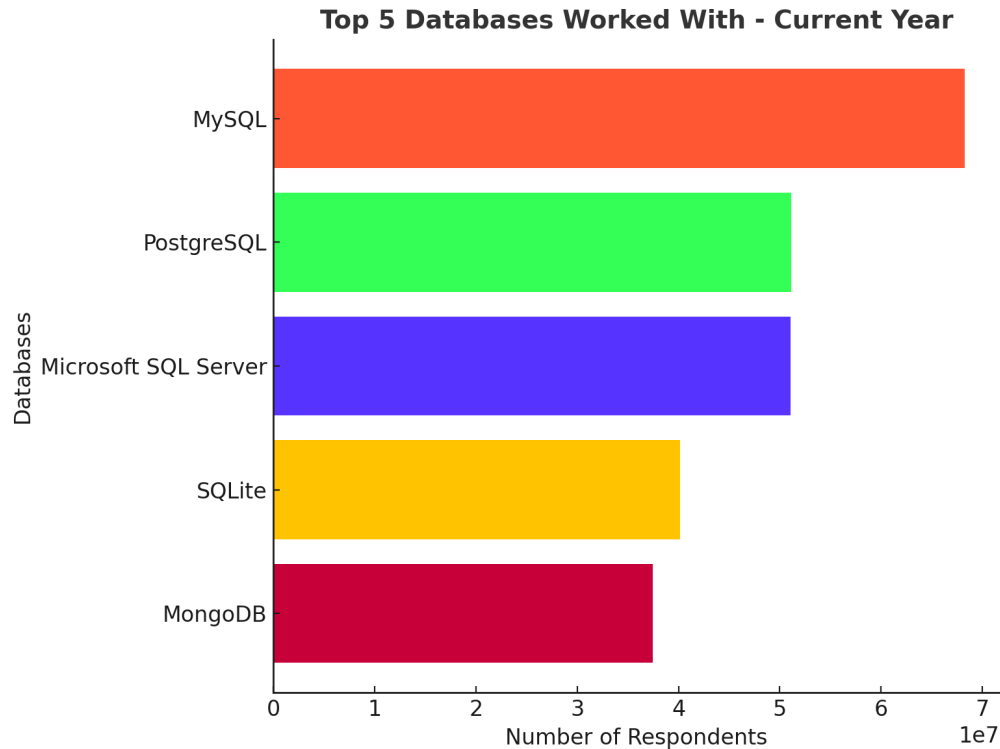


# PROGRAMMING LANGUAGE TRENDS

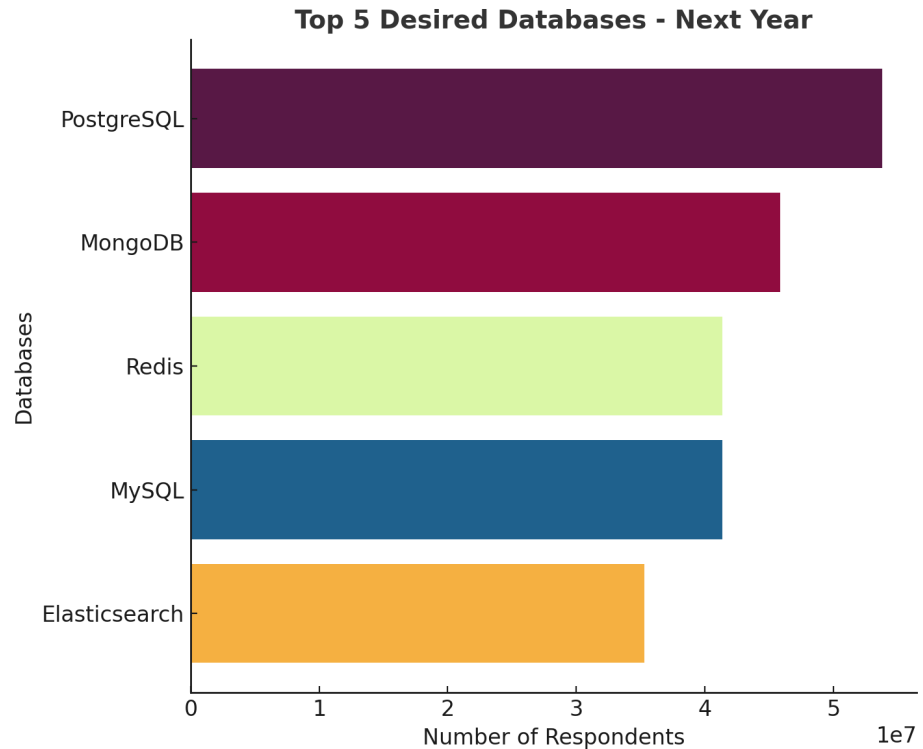


# DATABASE TRENDS

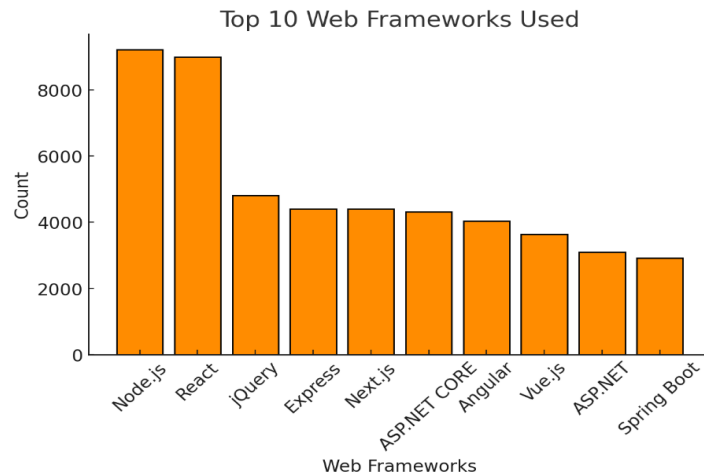
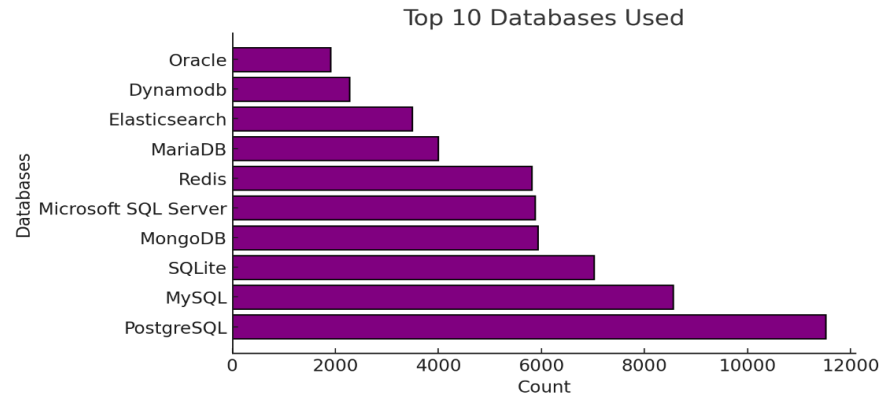
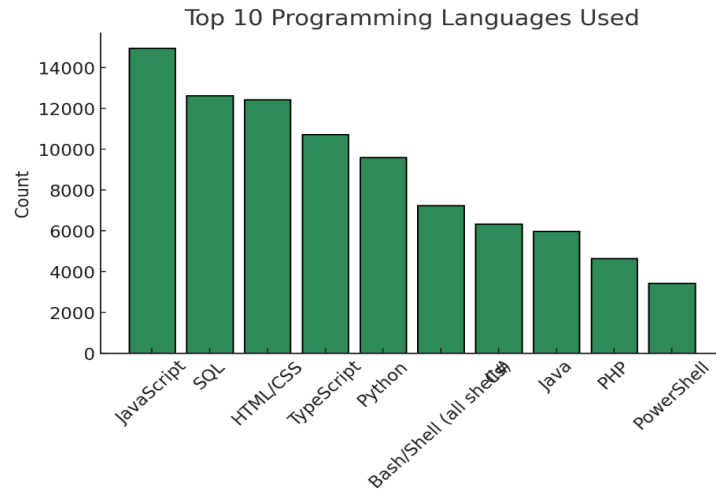
Current Year



Next Year

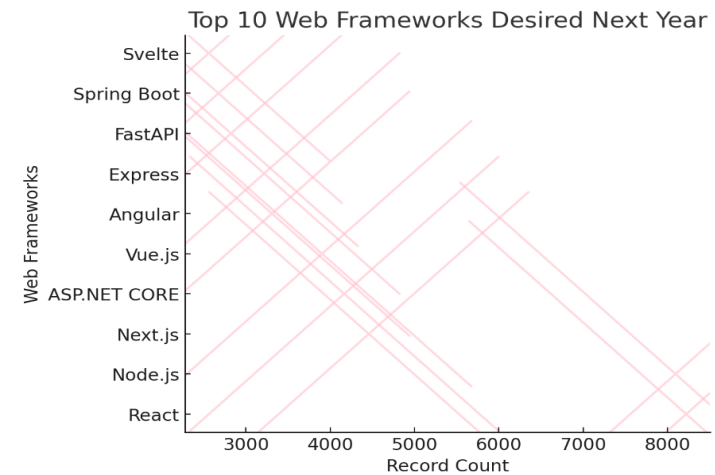
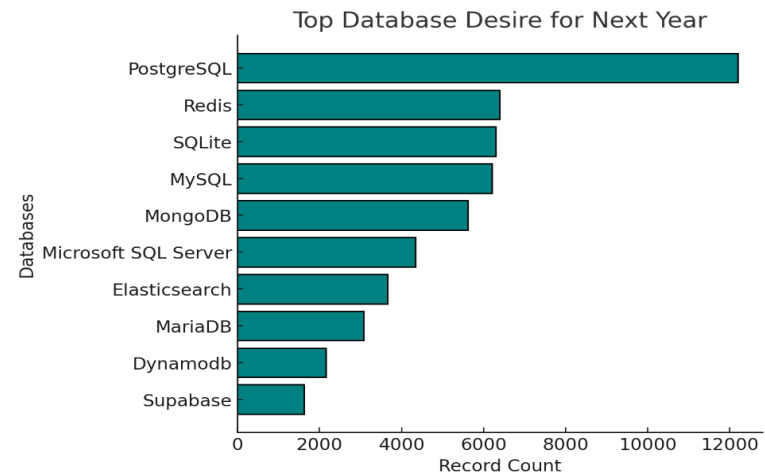
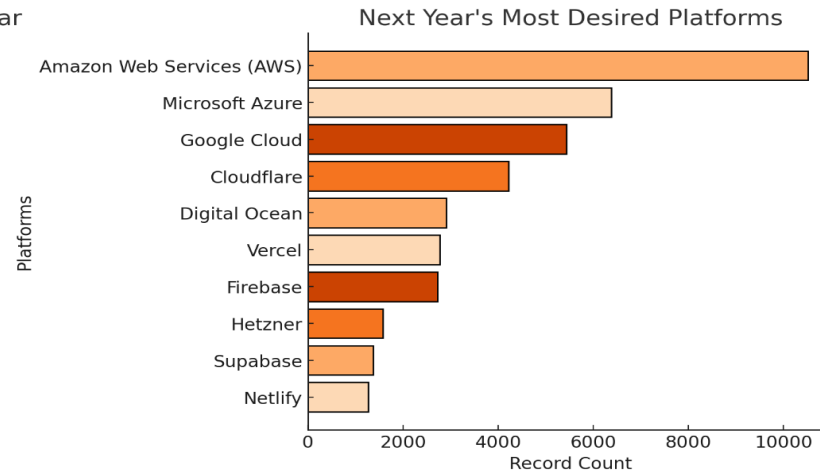
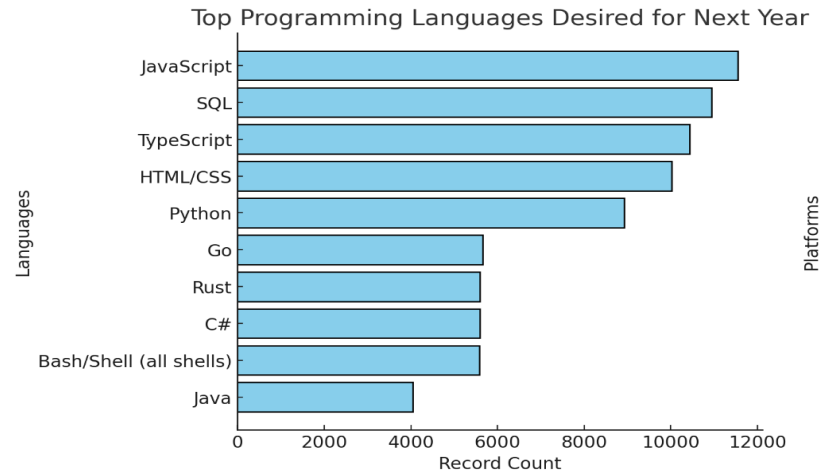


# DASHBOARD TAB 1



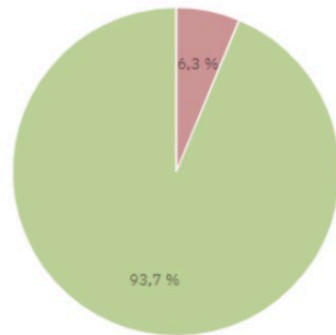


# DASHBOARD TAB 2

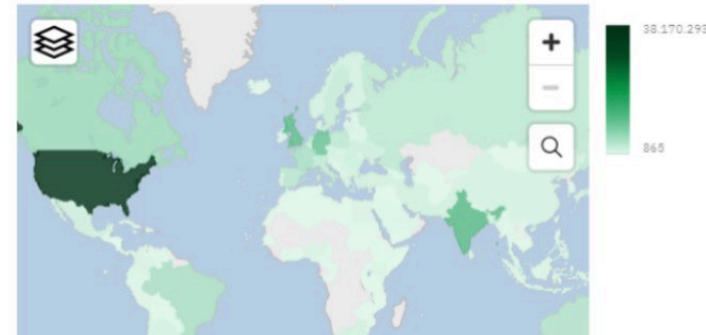


# DASHBOARD TAB 3

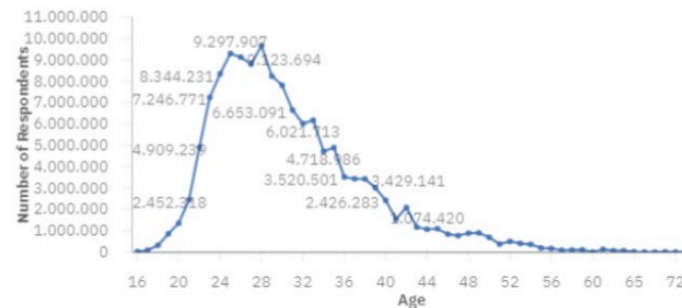
Respondent by Gender



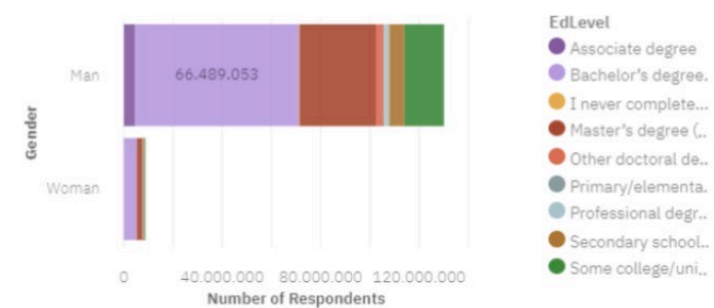
Respondent Locations



Respondent by Age



Formal Education Level / Gender



# DISCUSSION

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- Most popular programming languages currently in use.
- Expected changes and growth in different programming languages.
- JavaScript remains dominant, but Python and TypeScript are growing rapidly.

# Dashboard Insights

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- Visualizations of key findings.
- Breakdown of developer demographics, technology preferences, and job trends.
- Trends predicting the future of the software development industry.

# Database Trends

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- MySQL remains the most used database.
- PostgreSQL and MongoDB are gaining traction.
- Microsoft SQL Server and SQLite see a decline in adoption.

# OVERALL FINDINGS & IMPLICATIONS

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- Findings:
  - JavaScript remains widely used, with TypeScript gaining popularity.
  - The majority of developers are young males.
  - Developers are predominantly located in developed countries.
- Implications:
  - JavaScript and TypeScript frameworks continue to dominate the industry.
  - A need to diversify the developer landscape globally.
  - Most developers lack postgraduate studies, highlighting potential education gaps.

# CONCLUSION

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- Developers have distinct characteristics and preferences.
- Popularity trends of programming tools, frameworks, and platforms can be predicted.
- Accessibility to the labor market should be extended to developing nations.
- TypeScript and PostgreSQL continue to show increasing adoption.

# APPENDIX

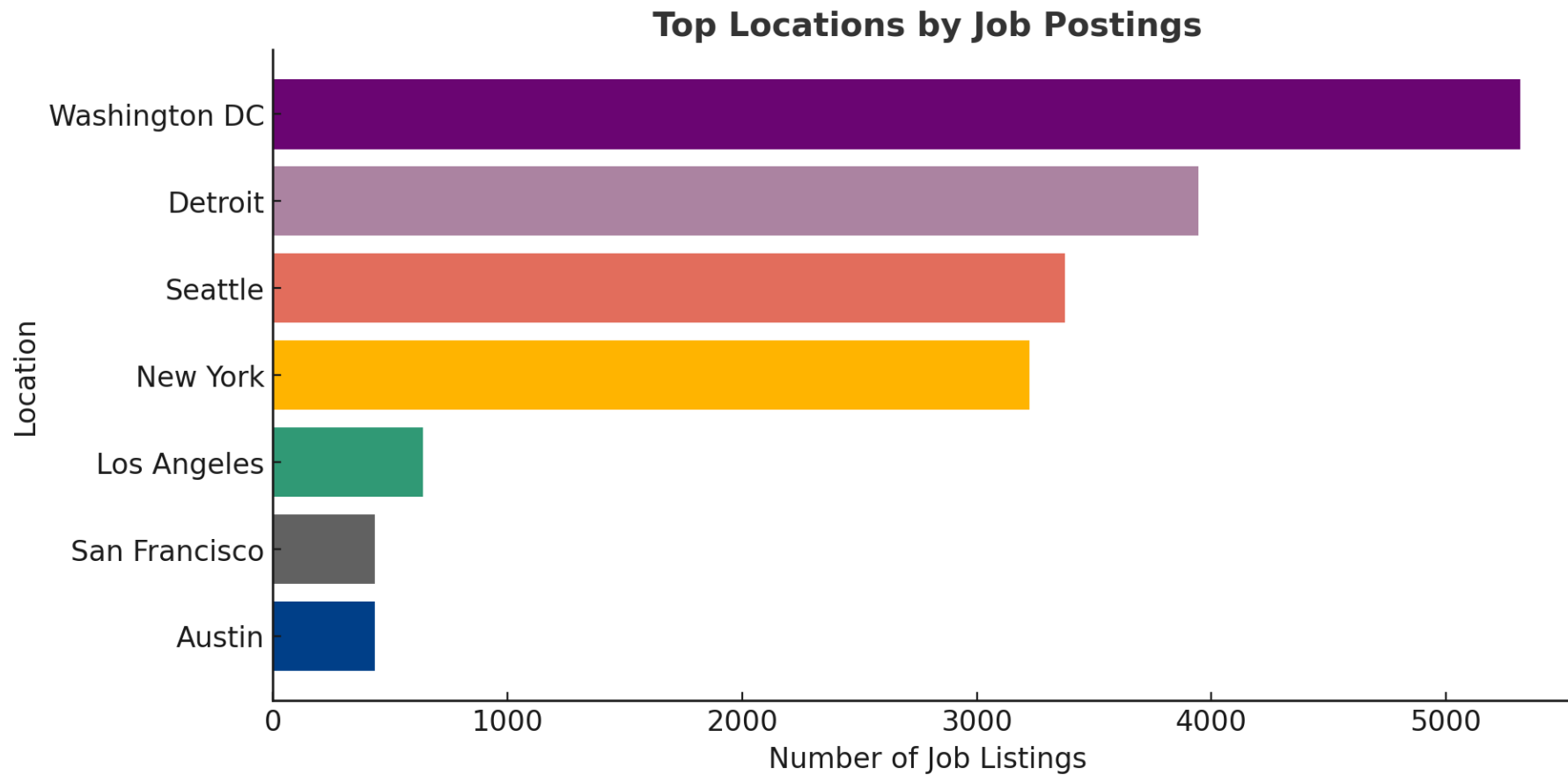
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- Additional charts and analysis from the survey.
- Expanded details on job postings and salary trends.
- Supplementary visualizations for deeper insights.



# JOB POSTINGS



# POPULAR LANGUAGES

