



# Developer Survey Analysis

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# OUTLINE

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- Executive Summary
- Introduction
- Methodology
- Results
  - Visualization – Charts
  - Dashboard
- Discussion
  - Findings & Implications
- Conclusion
- Appendix

# EXECUTIVE SUMMARY

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- The data used in this analysis contains information about the trend of technology use.
- The trend is grouped into three different categories:
  - Current technology usage
  - Future technology trend
  - Technology use/trends according to demographics.
- These trends are further divided into Language, Database, Platform, and Web Frame.
- This survey covers correspondents from 27 different countries in different countries.

# INTRODUCTION

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- The data was gotten from a survey done by Stack Overflow
- Majority of the respondent have gained formal education of some sort Point2
- Majority of the respondents are between the ages of 24 – 30 and about 93.5% of them identify as Male.

# METHODOLOGY

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- There was 'no value' for a good number of the respondents and this null value was removed during the analysis.
- Also, the analysis focuses on the respondents with formal education as they are more likely to be associated with the survey.
- The analysis was narrowed down to the top 10 of the different categories to allow precise focus.
- Many gender identities were also present in the data but the analysis focuses on two major genders:
  - Male
  - Female

# RESULTS

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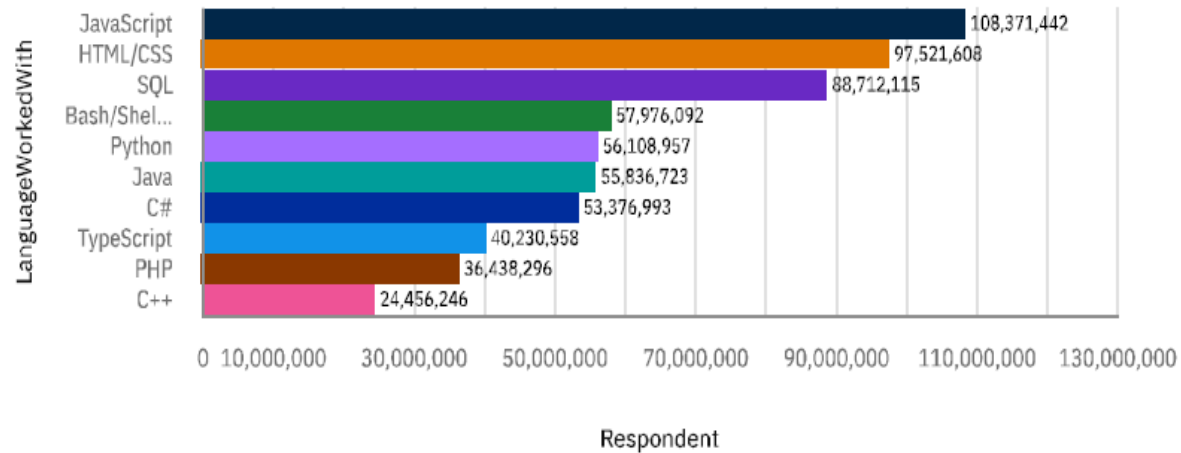


# PROGRAMMING LANGUAGE TRENDS

## Current Year

Top 10 LanguageWorkedWith

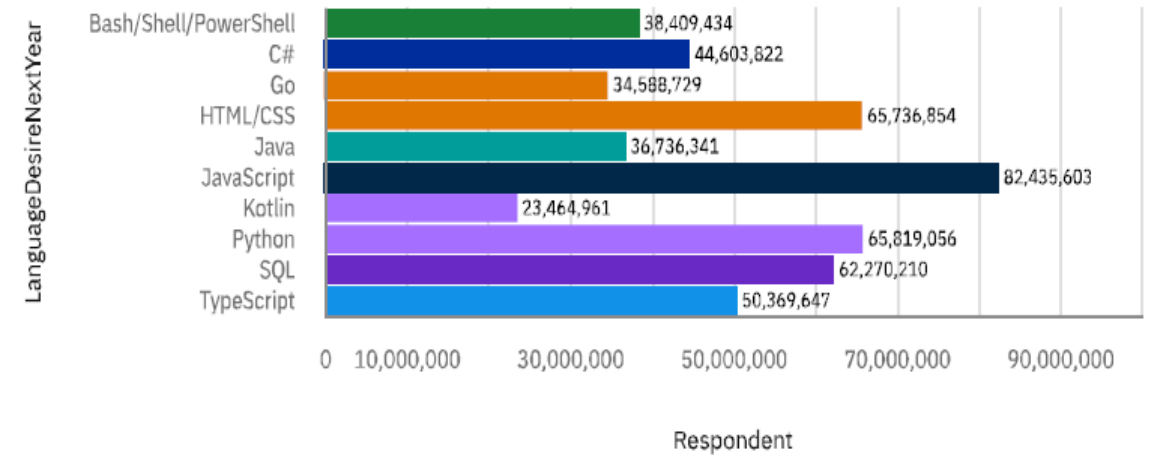
LanguageWorkedWith



## Next Year

Top 10 LanguageDesireNextYear

LanguageDesireNextYear



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- JavaScript is the most used language currently and people its use will not depreciate in the future.
- The interest in PHP and C++ is reducing as there are not in the top 10 desired languages to learn.
- There seems to be an increased desire to learn Go and Kotlin when compared to their use in the current year.

## Implications

- Some languages like Java, Python, SQL, JavaScript, Bash, and others are still in high demand to programmers.
- The languages that less experienced programmers are more likely to gain less popularity in the nearest future.



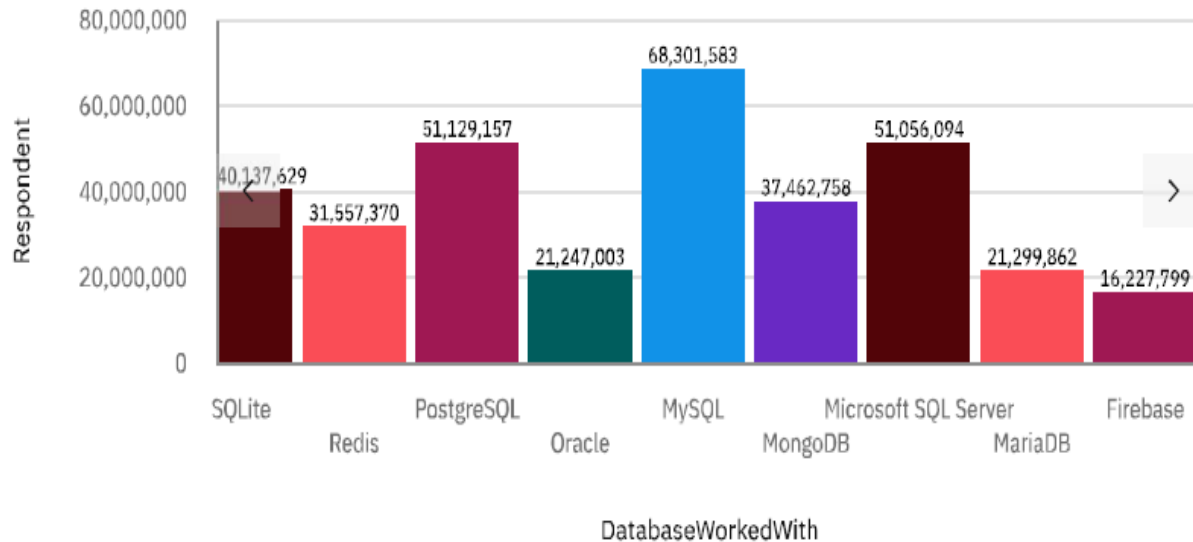
# DATABASE TRENDS

## Current Year

Top 10 DatabaseWorkedWith

DatabaseWorkedWith

Elasticsearch    Firebase    MariaDB    Microsoft SQL Server    MongoDB  
MySQL    Oracle    PostgreSQL    Redis    SQLite

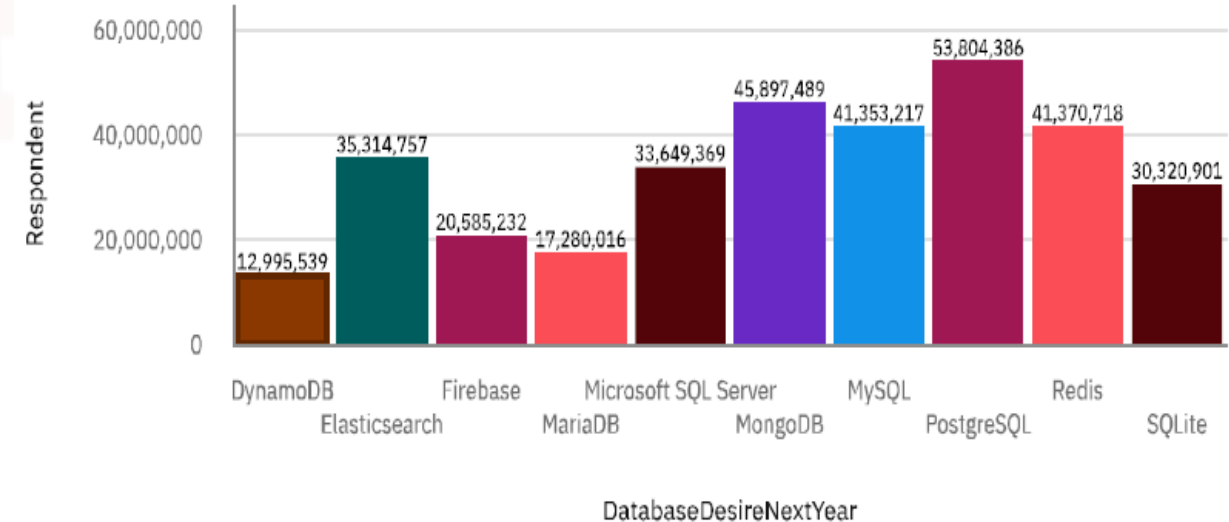


## Next Year

Top 10 DatabaseDesireNextYear

DatabaseDesireNextYear

DynamoDB    Elasticsearch    Firebase    MariaDB    Microsoft SQL Server  
MongoDB    MySQL    PostgreSQL    Redis    SQLite



# DATABASE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- In the current year, MySql, Postgresql, and Microsoft SQL have increased use among most database users.
- In the coming year, there is more desire to learn Postgresql, MongoDB, and MySQL respectively.
- The interest in MongoDB seems to be on the rise among database programmers.

## Implications

- The rise in the interest in MongoDB may be pointing to the increased analysis of Non-Relational Databases using NoSQL.

# DASHBOARD

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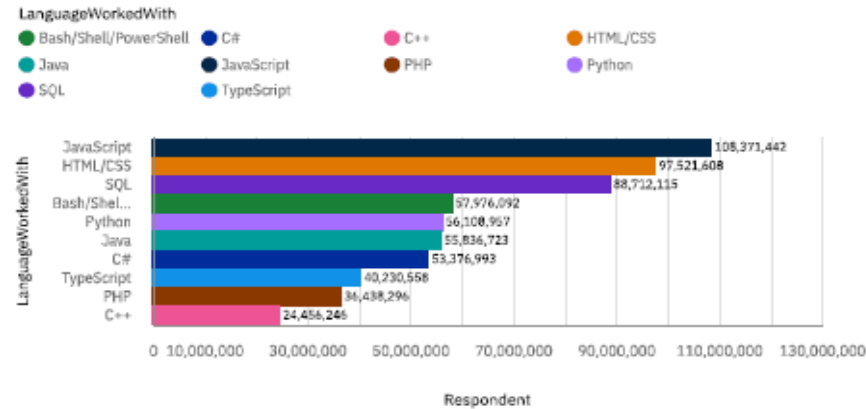


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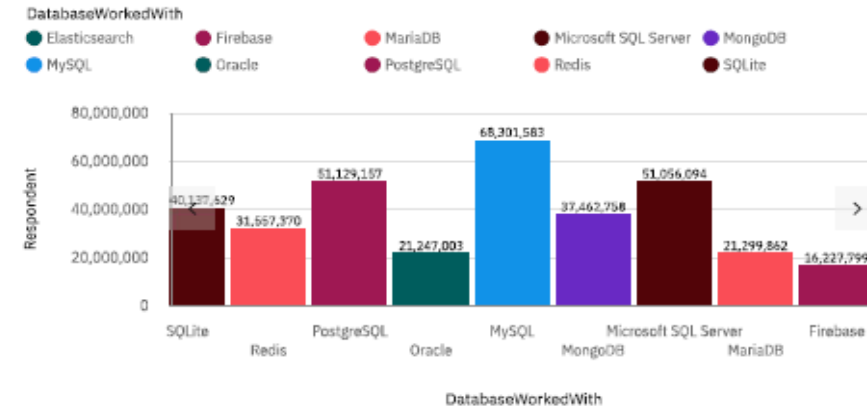
# DASHBOARD TAB 1

## Current Technology Usage

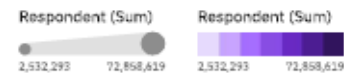
Top 10 LanguageWorkedWith



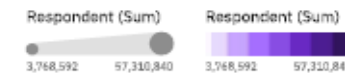
Top 10 DatabaseWorkedWith



PlatformWorkedWith



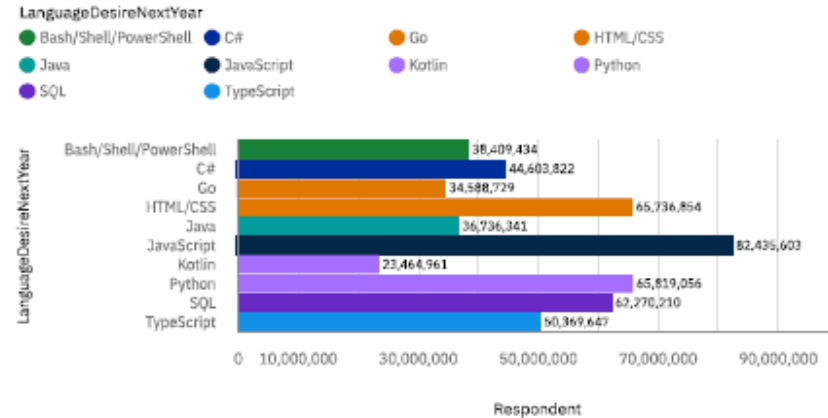
Top 10 WebFrameWorkedWith



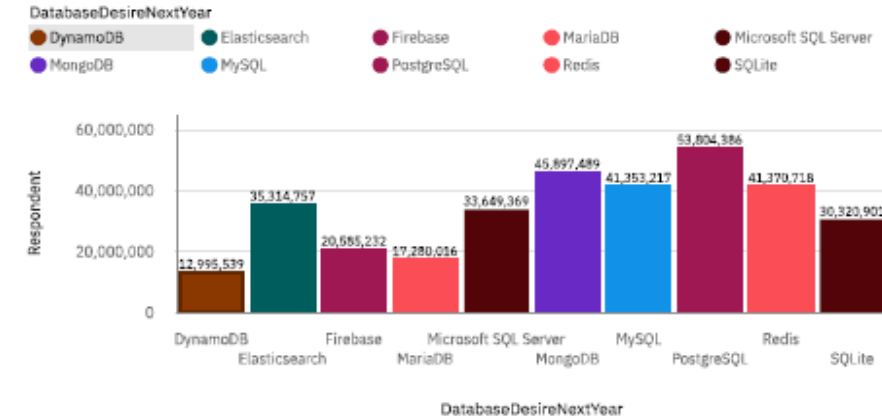
# DASHBOARD TAB 2

## Future Technology Trend

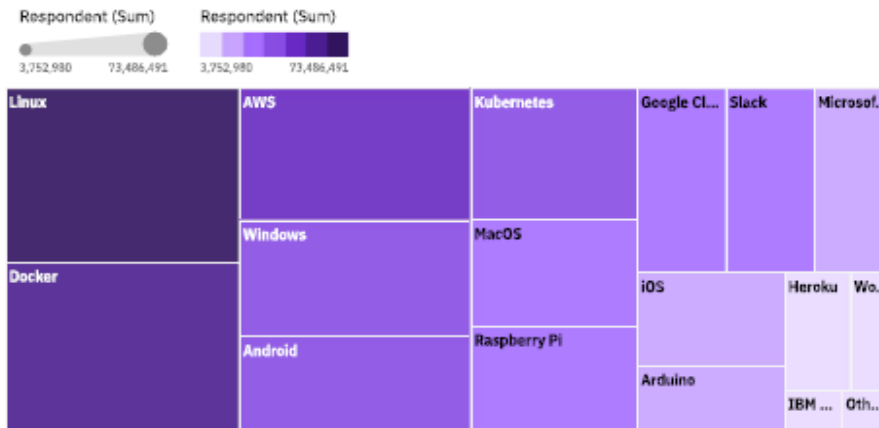
Top 10 LanguageDesireNextYear



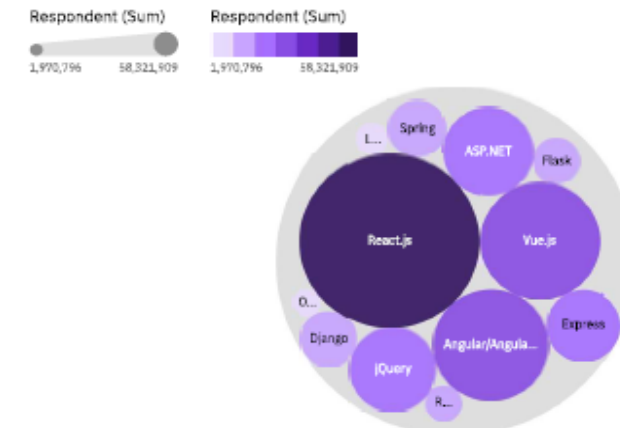
Top 10 DatabaseDesireNextYear



Top PlatformDesireNextYear



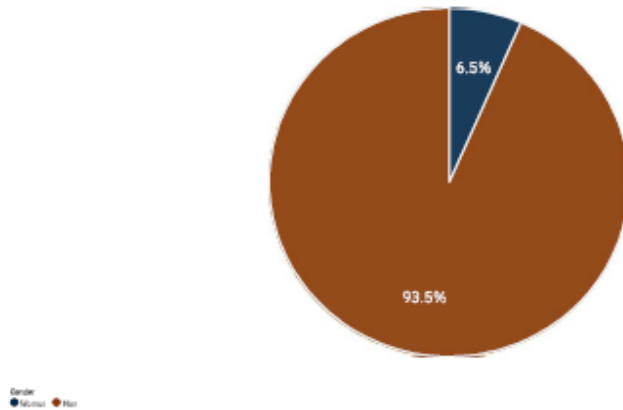
Top 10 WebFrameDesireNextYear



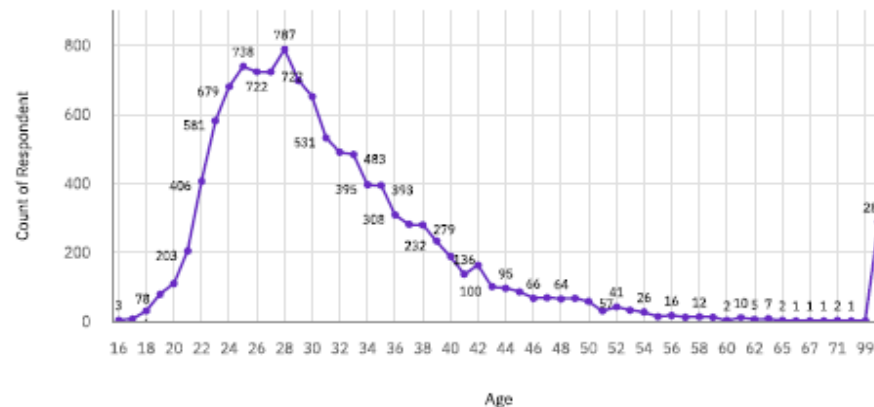
# DASHBOARD TAB 3

## Demographics

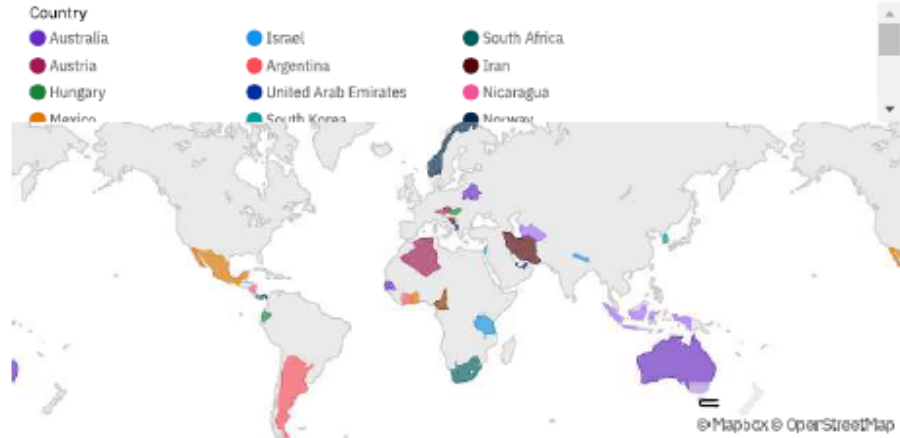
Respondent classified by Gender



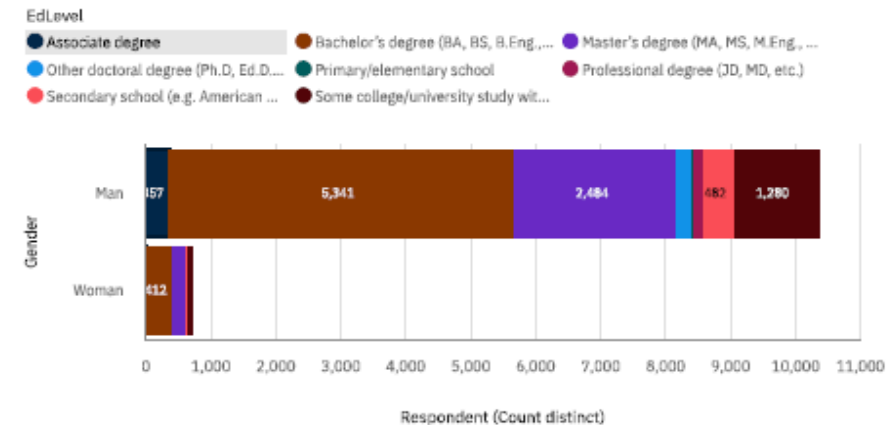
Respondent Count by Age



Respondent Count for Countries



Respondent Count by Gender, classified by Formal Education Level



# DISCUSSION

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- There seems to be not as drastic a change in the programming language and data used in the current year when compared to the desires for the next year.
- The above point is not the case for the Platform and web frame used. From the analysis, it looks like there is usually a slight change in popularity amongst these.

# OVERALL FINDINGS & IMPLICATIONS

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## Findings

- There is still a growing interest in programming languages even though there are some languages that dropped when compared to the dire to learn them next year.
- There is an increased interest in the NoSQL languages when compared to SQL.
- There is a swift and drastic change in peoples' interest when it comes to Web frames and Platforms.
- Majority of those that use these programming tools are men between the ages of 24 and 35 and they have attended a level of formal education.

## Implications

- With the reduced interest in some languages, more programming languages may be used less.
- Respondents dire to have a knowledge of both SQL and NoSQL languages for better data analysis from databases.
- Learning to use Web frames and Platforms may be dependent on what is in current use and what is most widely used.



# CONCLUSION

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- Interest in programming languages or databases changes with time and some get less popular.
- Platforms like Linux are still desirable in the current time and future showing their durability.