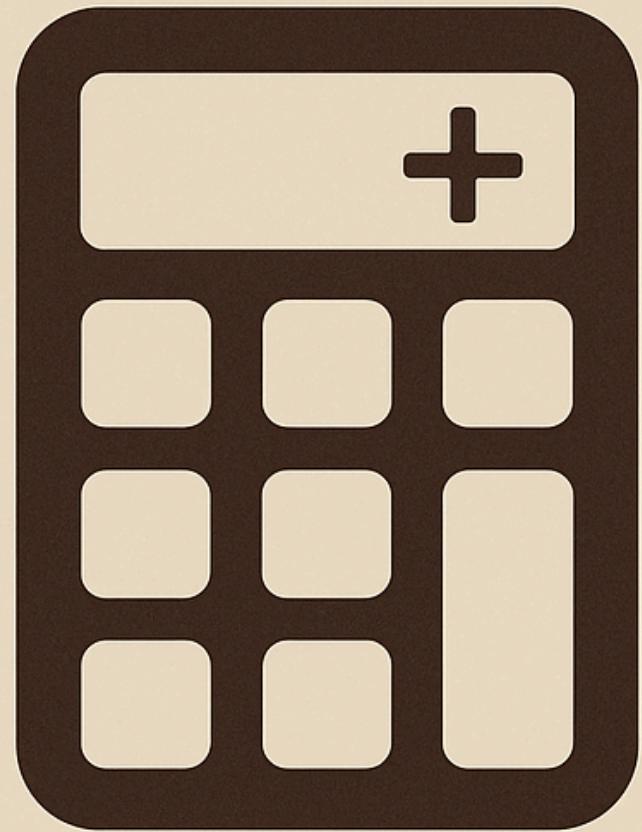


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Thank you



# TOTAL WAR: ROME II CALCULATOR

# Calculator mod

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# What is the Calculator Mod

The Calculator Mod is a web-based application designed to simplify and enhance the process of creating custom factions for Total War: Rome II. The project integrates a user-friendly online faction builder, powered by JavaScript and hosted through W3Schools Spaces, allowing players to generate and balance their own factions without needing advanced modding experience.



# System Specifications for Function, Non-Functional and User Interface

## Functional Specifications

- Faction Creation
- Unit Customization
- Calculation
- Data Export

## Non-Functional Specifications

- Performance and Usability
- Reliability
- Portability
- Security

## User Interface Specifications

- Interface Layout
- Input Controls
- Feedback and Interactivity
- Ease of Use
- Responsiveness

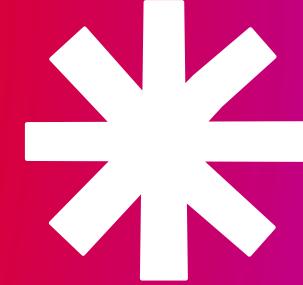
# Implementation and Development Tools

- Programming: Google Apps Script (JavaScript) for system logic, automation, and calculation.
- Storage Layer: Google Sheets used as structured data tables (Units, Factions, Builds)
- Front-End: Controlled UI using input cells, dropdown menus, and computed formulas
- Automation: Custom Apps Script functions for stat calculations, validation, and JSON generation
- Version Control: Shared Google Drive environment with built-in version history
- Testing: Automated formula checks and scripted input validation within Sheets

## Project Challenges & Future Work

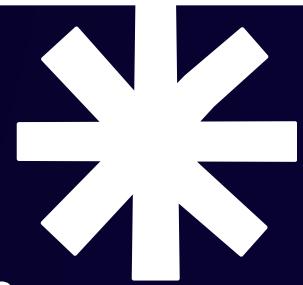
# CHALLENGES

- Ensuring accurate stat calculations across interconnected formulas
- Maintaining data consistency while handling large datasets
- Managing unpredictable user inputs without breaking the system
- Balancing simple UI design with complex modding requirements
- Keeping exported JSON structured and conflict-free across updates



# Future Work

- Add advanced editing features (unit visuals, abilities, attributes)
- Automate exporting processed user data directly into the file manager
- Improve performance and responsiveness for large-scale datasets
- Support exporting to mod-ready formats (CSV, JSON, Pack files)
- Implement automated testing for formulas and JSON generation
- Add comparative analysis tools for unit balancing



# Conclusion

## The Mod Calculator

- User Friendly Web application
- Create and Customze Factions

## Future Plans

- User Friendly Web application
- Create and Customze Factions

# Thank You