

*Lessons from the*

# **Angus Sire Benchmarking Program**

## **Starting vs Finishing EBVs Individual Sire Changes**



# How much did each individual animals EBVs change?



# How was it calculated?

## Initial EBVs

EBVs and EBV accuracies were calculated as part of the TransTasman Angus Cattle Evaluation (TACE) analysis based on the pedigree and performance information available when the sires were first entered into the ASBP.

## Final EBVs

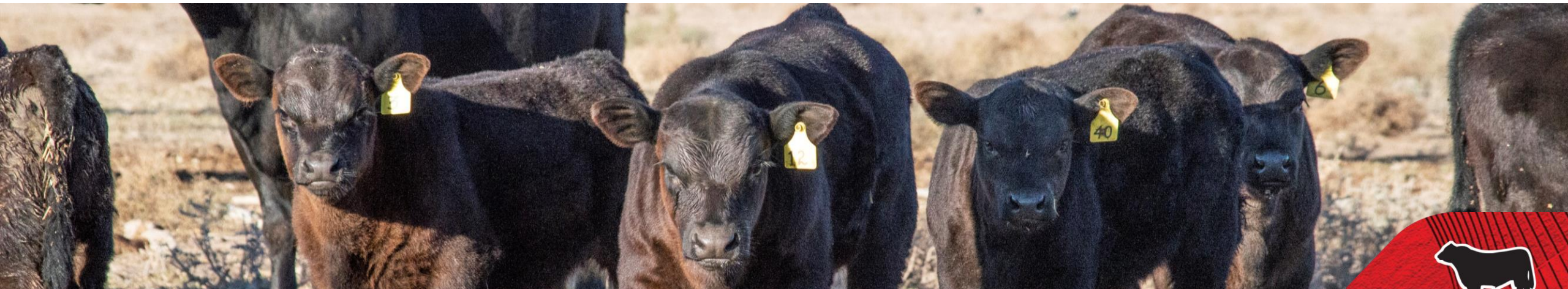
EBVs and EBV accuracies were again calculated for each sire once they had been progeny tested in the ASBP and all progeny performance data have been included in the TACE analysis.



# How much did EBVs change on average?

Table 1: Average 200 Day Growth EBVs for Sires in Cohort 6

200 Day Growth (kg)	Initial EBV	Final EBV
Average Highest 10	+56	+57
Average of Cohort 6	+49	+49
Average Lowest 10	+40	+43



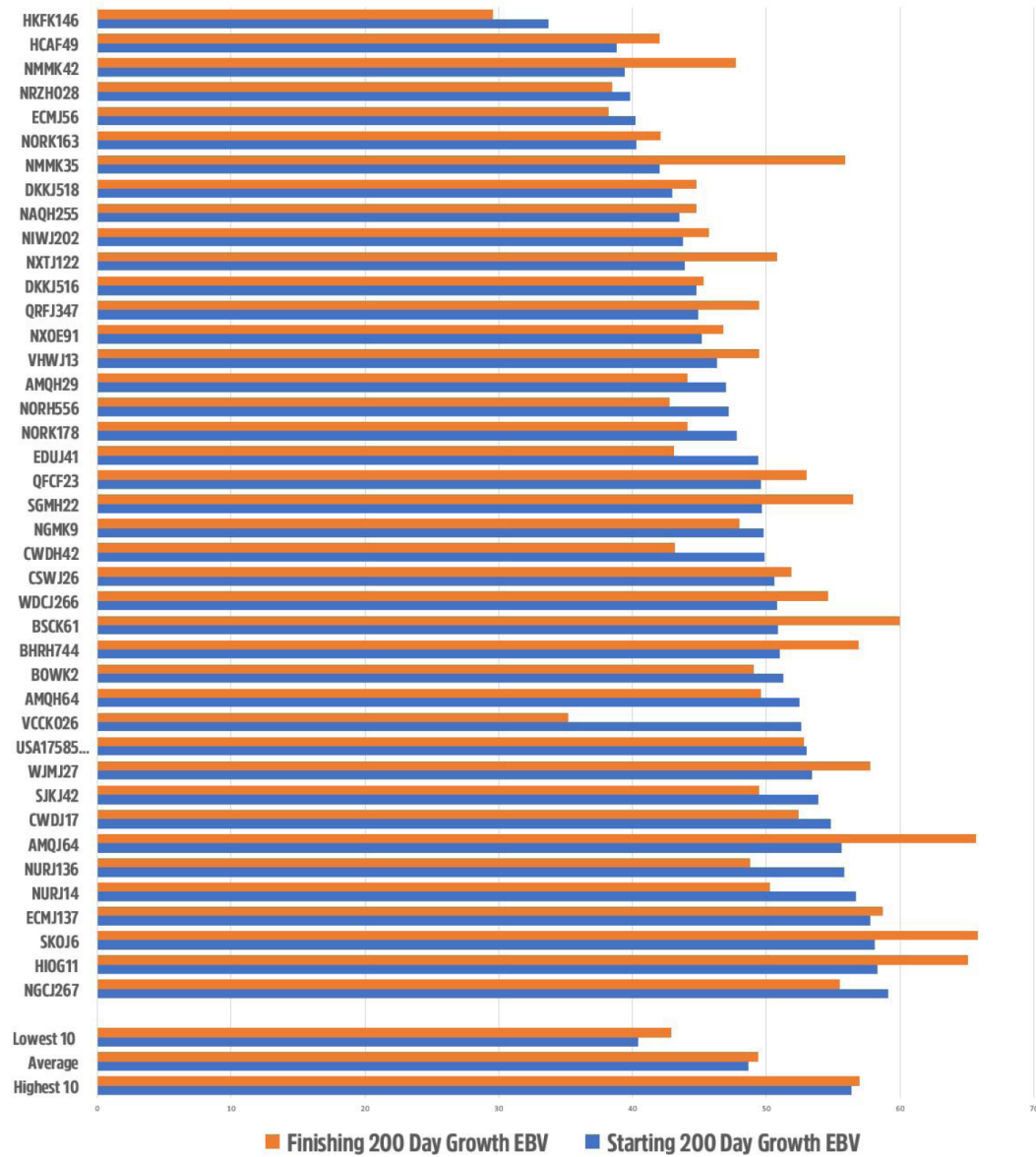


Figure 1: Starting Vs Finishing EBVs (Cohort 6 - 200 Day Growth)



# How much did individual EBVs change?

- While there was minimal change, on average, in the 200 Day Weight EBVs of sires in Cohort 6 of the ASBP, the EBVs for some individual sires did change.
- EBVs for some sires increased, some decreased and some remained unchanged, there was not a significant amount of re-ranking observed.
- The EBV of a sire who had a low initial EBV may have increased, but the sire's EBV would still be relatively low by comparison to the other sires.



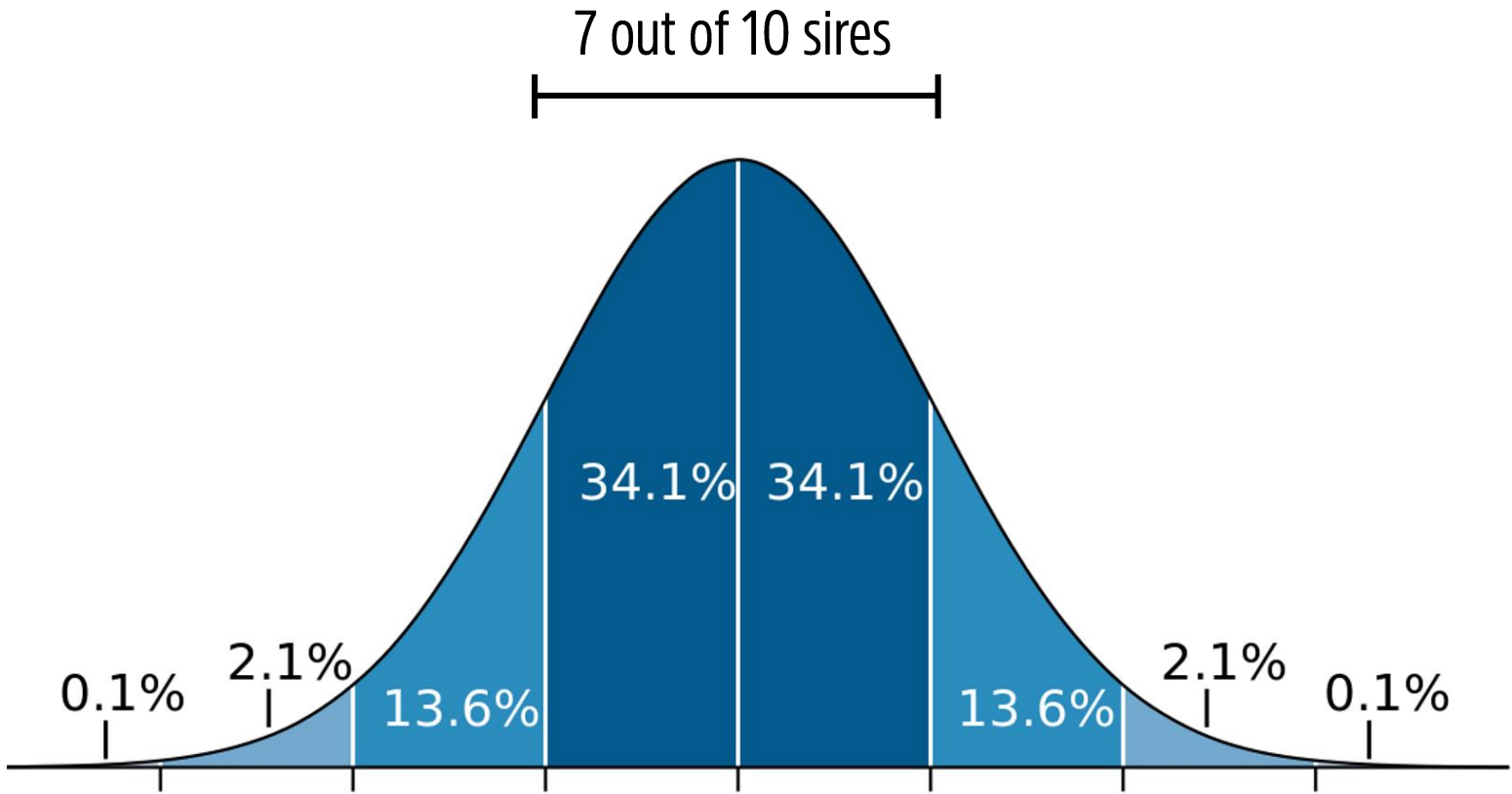
# How much did accuracies change on average?

Table 2: Average 200 Day Growth EBV Accuracies for Sires in Cohort 6

200 Day Growth (kg)	Initial Accuracy	Final Accuracy
Average Highest 10	75%	90%
Average of Cohort 6	75%	91%
Average Lowest 10	76%	92%

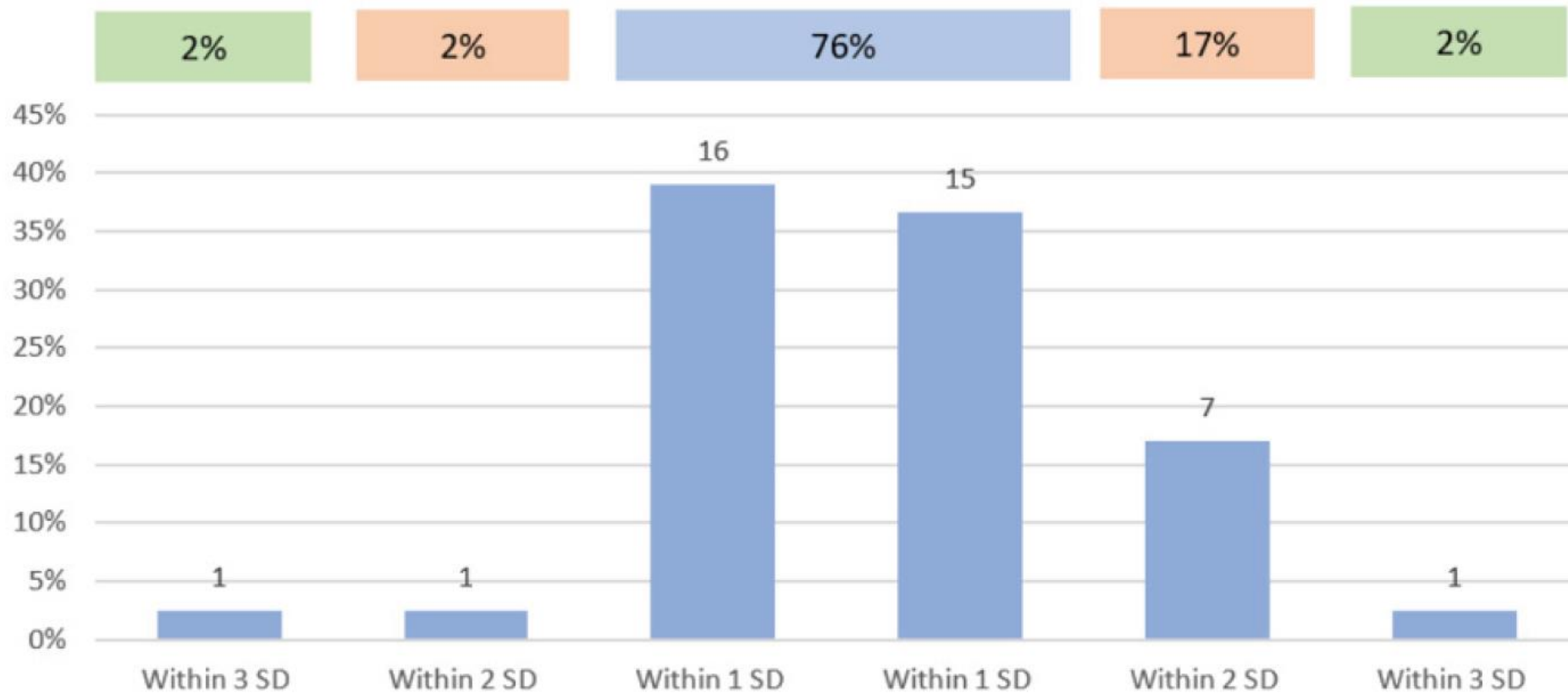


# Were the changes in the EBVs of individual sires within expected ranges?

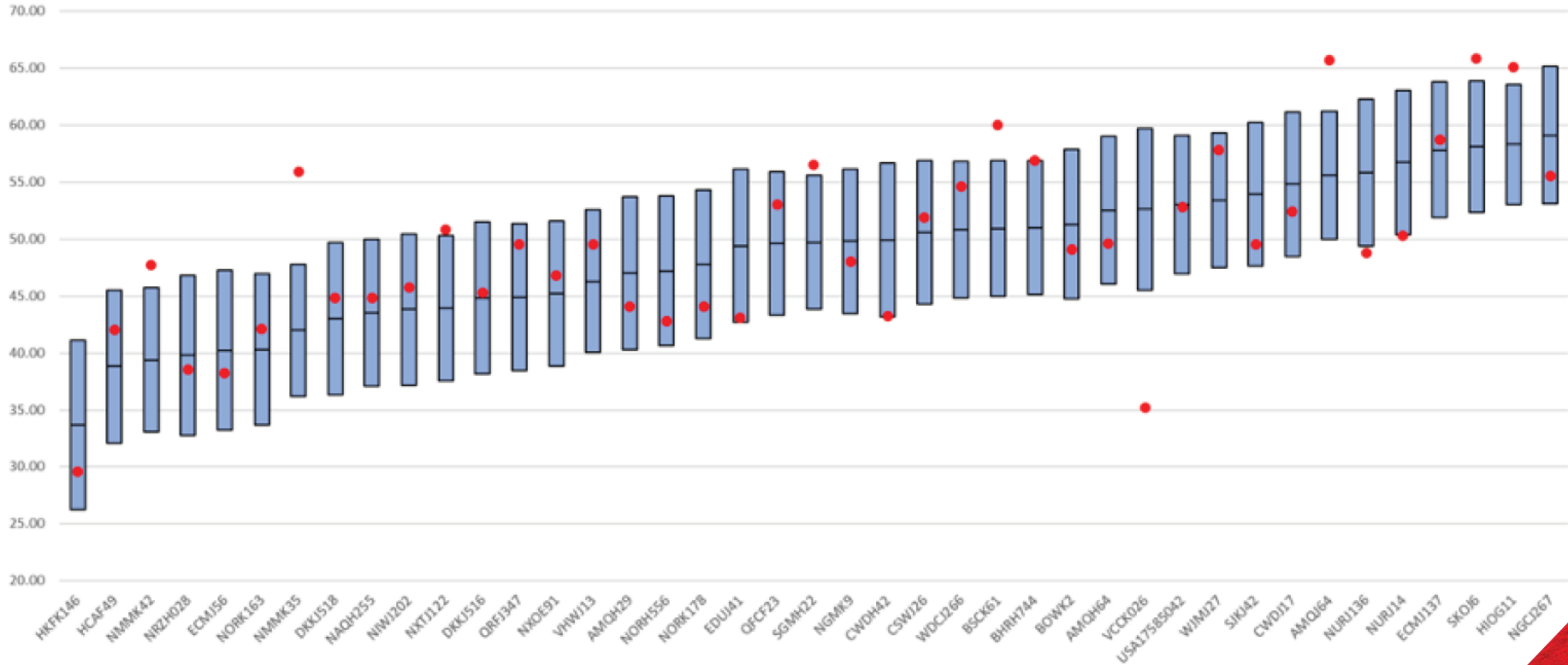




# Were the changes in the EBVs of individual sires within expected ranges?



# Change in EBV expected (1SE) vs. Change in EBV observed





# Individual sire changes

The changes that were observed to the EBVs of individual sires both in terms of the number of individual sires who's EBVs changed, and the magnitude of those changes were within expected ranges based on the accuracy of the sire's initial EBVs.







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HOW DO YOU REALLY KNOW IT'S ANGUS



ABOUT

- General Information
- Consultative Committee
- Bull Nominations

SIRE COHORTS

- First Cohort
- Second Cohort
- Third Cohort
- Fourth Cohort
- Fifth Cohort
- Sixth Cohort
- Seventh Cohort
- Eighth Cohort
- Ninth Cohort

LESSONS FROM THE ASBP

- Project Overview
- Capitalising on genetic variation
- EBVs reliably predict progeny performance
- Starting vs. Finishing EBVs
- Individual Sire EBV Changes










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