# Age of Astronauts

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#### Abstract

This paper presents a statistical analysis of the age trends in astronauts. We demonstrate several interesting age-related statistics, as well as showing trends related to space-walk records.

### 1 Acknowledgements

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### 2 Introduction

The age of astronauts has been a topic of interest for many years. This paper presents a statistical analysis of the age of astronauts and some related analysis around age and spacewalk records.

## 3 Methodology

The data for this study was collected from the Tidy Tuesday data repository [1], entry 2020-07-14, and analyzed using Python with the pandas [2, 3] package.

### 4 Results

The results of the analysis show the average age of astronauts at their selection and mission.

	Age on selection	Age on mission
min	24.000000	28.000000
max	60.000000	77.000000
median	34.000000	43.000000
mean	34.158127	43.496466

Table 1: Age of astronauts at selection and mission.

We additionally explore how the record spacewalk length has changed over time in Figure 1, as well as how this is related to the age of astronauts.

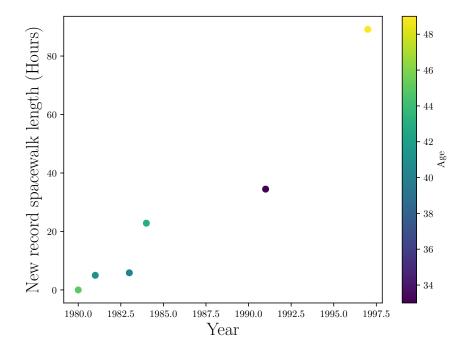


Figure 1: Spacewalk record over time, as well as the age of the astronaut setting the record at the time of the mission.

#### 5 Discussion

The average age of astronauts could be attributed to several factors. Changes in the selection criteria for astronauts may affect the average age over time. This analysis will be considered in future work.

### References

- [1] Data Science Learning Community. Tidy tuesday: A weekly social data project, 2024.
- [2] The pandas development team. pandas-dev/pandas: Pandas, February 2020.
- [3] Wes McKinney. Data Structures for Statistical Computing in Python. In Stéfan van der Walt and Jarrod Millman, editors, *Proceedings of the 9th Python in Science Conference*, pages 56 61, 2010.