

Psychohistory: a primer

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Abstract

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Keywords: Psychohistory, Encyclopedia

1. Introduction

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2. Foundations

Psychohistory depends on the idea that, while one cannot foresee the actions of a particular individual, the laws of statistics as applied to large groups of people could predict the general flow of future events. Asimov used the analogy of a gas: An observer has great difficulty in predicting the motion of a single molecule in a gas, but with the kinetic theory can predict the mass action of the gas to a high level of accuracy [1]. Seldon applied this concept to the population of the Galactic Empire, which numbered one quintillion, by defining two axioms:

- the population whose behaviour was modelled should be sufficiently large to represent the entire society.
- the population should remain in ignorance of the results of the application of psychohistorical analyses because if it is aware, the group changes its behaviour.

Ebling Mis added these axioms:

- there would be no fundamental change in the society human reactions to stimuli would remain constant.

Golan Trevize in Foundation and Earth added this axiom:

- humans are the only sentient intelligence in the galaxy.

2.1. Probability and Psychohistory

Psychohistory relies on the Seldon central limit theorem¹:

$$\sqrt{n} \frac{\bar{X}_n - \mu}{\sigma} \rightarrow \mathcal{N}(0, 1), \quad (1)$$

where ...

2.2. Features

2.2.1. Table

Below is Table 1.

Table 1: Example

Substance	Subcritical °C	Supercritical °C
Hydrochloric Acid	12.0	92.1
Sodium Myreth Sulfate	16.6	104
Potassium Hydroxide	24.7	

2.2.2. Figures

Below is Fig. 1.

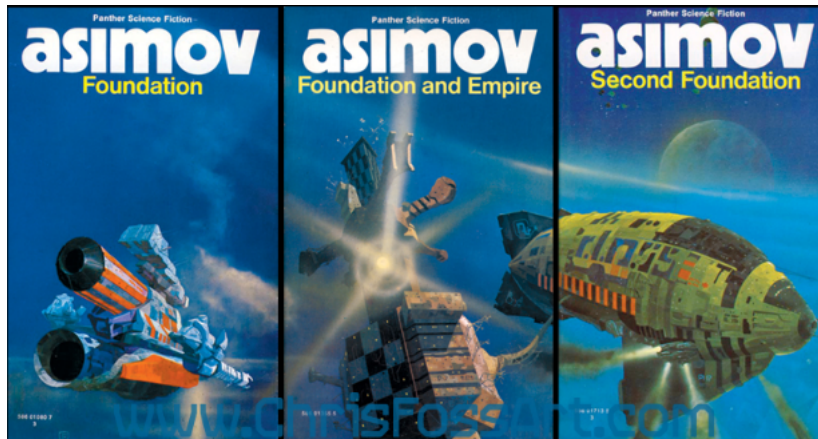


Figure 1: Books cover

¹It is actually the classical central limit theorem ☺

2.2.3. Subfigures

Below are Fig. 2a and Fig. 2b.



(a)



(b)

Figure 2: (a) Left image and (b) Right image



(a)



(b)

Figure 3: (a) Left image and (b) Right image

A. Appendix A

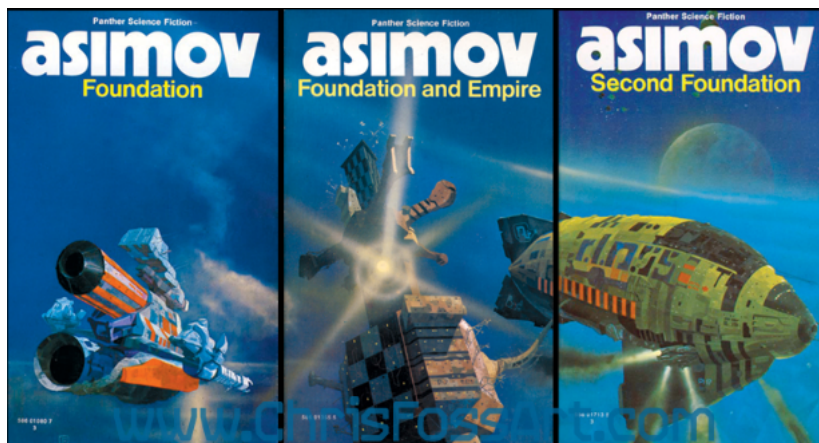


Figure A.1: Books cover

In Fig. A.1

In Eq. (A.1)

$$y = f(x) \tag{A.1}$$

In Table A.1

Table A.1: Example

Substance	Subcritical °C	Supercritical °C
Hydrochloric Acid	12.0	92.1
Sodium Myreth Sulfate	16.6	104
Potassium Hydroxide	24.7	

B. Appendix B

In Eq. (B.1)

$$y = f(x) \tag{B.1}$$

Below are Fig. B.1a and Fig. B.1b.



(a)



(b)

Figure B.1: (a) Left image and (b) Right image

References

- [1] H. Seldon, “The mathematics of Psychohistory,” *Universal Journal of Psychohistory*, pp. 1–10, 1210.