

Science Fiction Prototypes: An Overview



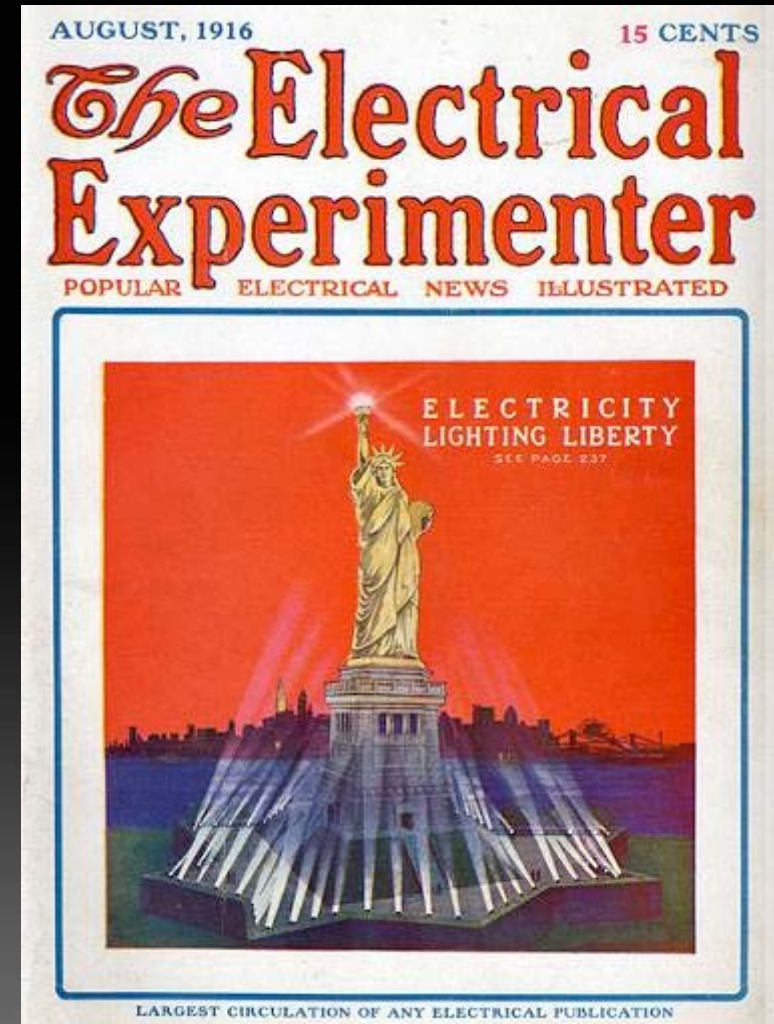
Brian David Johnson

Science Fiction and Science Fact *A Long Tradition Together*

*“A real electrical experimenter
worthy of the name must
have imagination and a
vision for the future”*

Hugo Gernsback 1916

Michael Ashley (2000). *Time Machines: The Story of the
Science-Fiction Pulp Magazines from the beginning to 1950.*
Liverpool University Press. pp. pp. 30–33.



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Logic Comes to Science Fiction

Urged on by editor John W. Campbell and written by Isaac Asimov the three laws brought logic to science fiction stories (1942- "Runaround")

- 1. A robot may not injure a human being or, through inaction, allow a human being to come to harm.*
- 2. A robot must obey any orders given to it by human beings, except where such orders would conflict with the First Law.*
- 3. A robot must protect its own existence as long as such protection does not conflict with the First or Second Law.*



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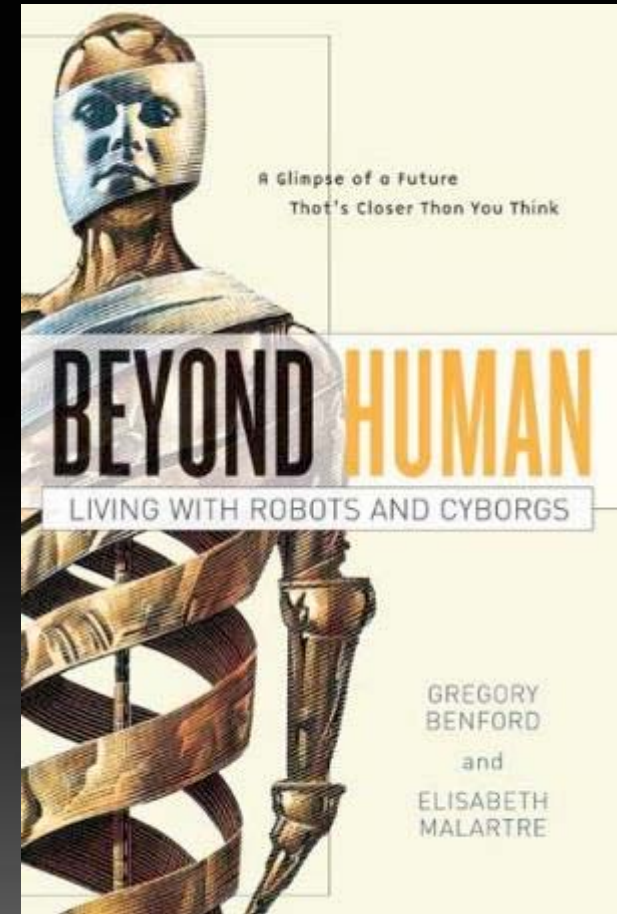
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Does science fiction actually lead science fact?

“Science has often followed cultural anticipation, not led it. Fiction and film have meditated upon upcoming social issues of robots and cyborgs for centuries.”

Gregory Benford and Elisabeth Malartre. *Beyond Human-Living with Robots and Cyborgs*. 2007.



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Science Fiction Prototyping: An Overview

Do Digital Homes Dream of Electric Families? (2007)

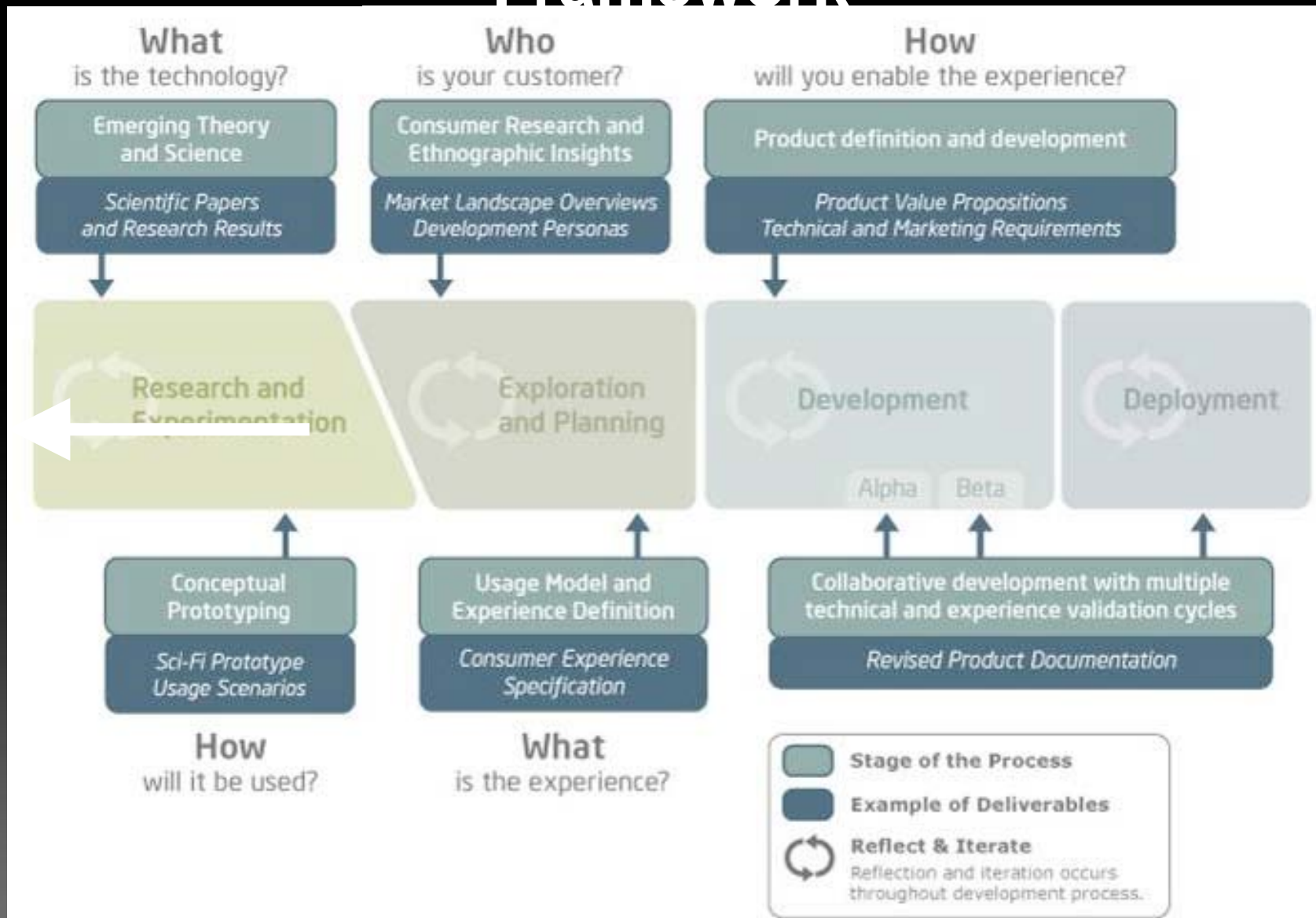
*An interesting challenge would be to examine how we could utilize the undeniable power of futuristic visions exemplified in the inspirational visions of science fiction to act as another meaningful input into the CEA process.**

*The CEA framework provides an overt way to incorporate (the) inventions of science fiction and turn them into science fact.**



* Johnson, BD. Advanced Intelligent Environments. IE07. Do Digital Homes Dream of Electric Families?. 2009. Springer Press

Expanded Experience Architecture Framework



The Dr. Simon Egerton Stories

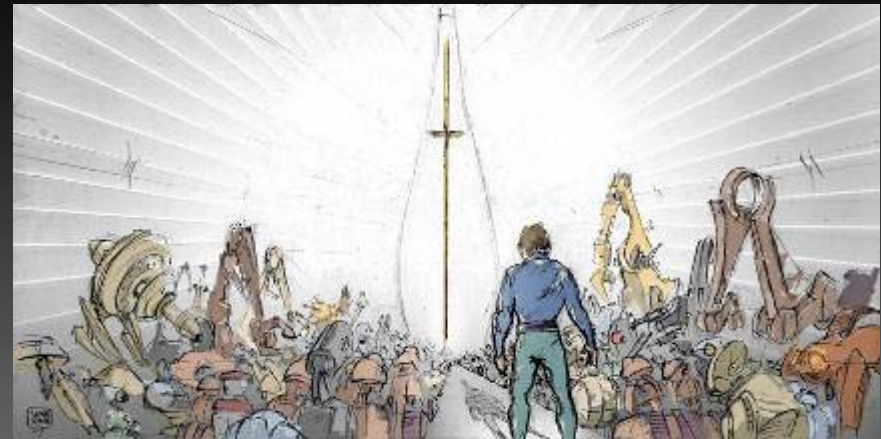
“Nebulous Mechanisms”

Why are the robots going to church?



“The Machinery of Love and Grace”

Faith-based AI and intra-AI communication.



“Murderous Little Pets”

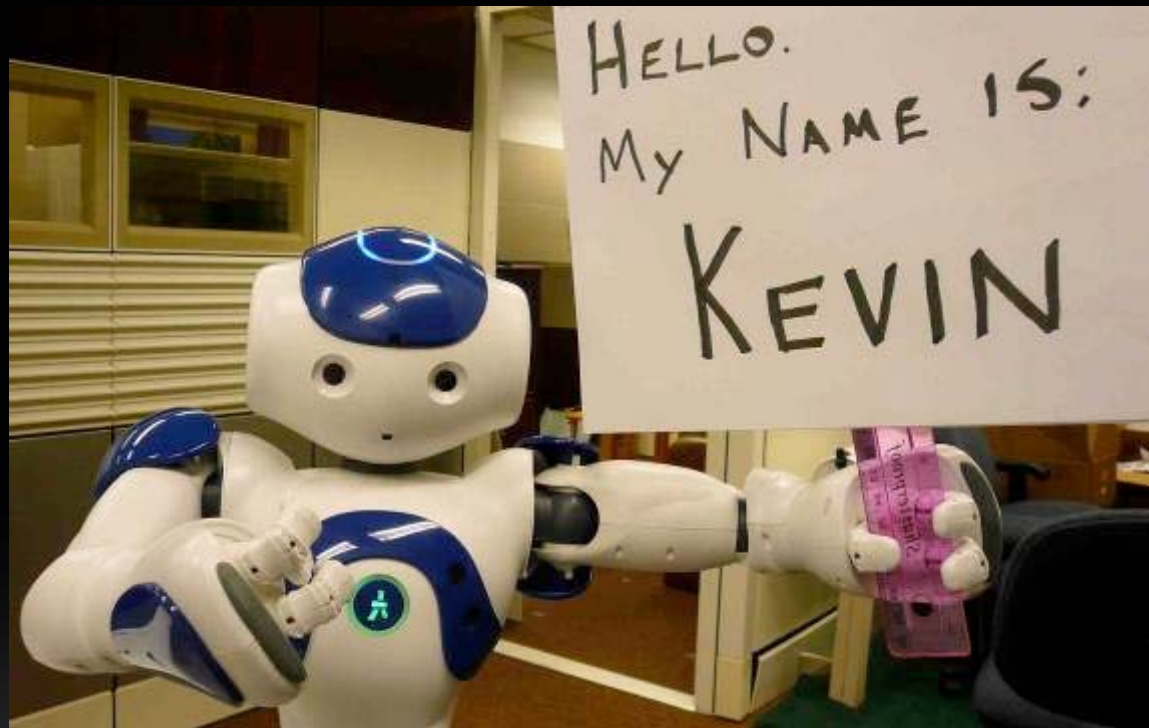
What drove the two robots to kill?

Productively confusing science fact and science fiction may be the only way for the science of fact to reach beyond itself and achieve more than incremental forms of innovation.*

*Julian Bleeker

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Thank you

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