Ethics of Automation

Elizabeth Fuller, Peter Mckay, Nisansa De Silva, Gautam Sondur, and Brad Green

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Ethical Automation: Introduction

- A note on Labor
- A Brief Review of the Industrial Revolution(s)
- Big Question:
  - We know automation destroys jobs. How many does it make?
  - What do we do when people lose their jobs?

Ethical Automation: will automation create net job loss?

Ethical Automation: proposed solutions to job loss

Ethical Automation: A brief aside

- From Worker to Product
  - We've talked about a worker being replaced by a machine
  - How do we talk about those machines?
- What is Responsibility?
- The Big Questions:
  - When a machine fails, who is responsible?
  - What kind of failure is acceptable?

Responsiblity

Self-Driving Cars

- The manufacturer is liable for failure, not the user

How Safe is Safe Enough?

424,331 autonomous miles. . . with a catch

- "Safety Driver"
- Relinquished Control
- Emergency Intervention

Is it Moral to Trust the Morality of a Machine?

Ethical Automation: Trust in Automation

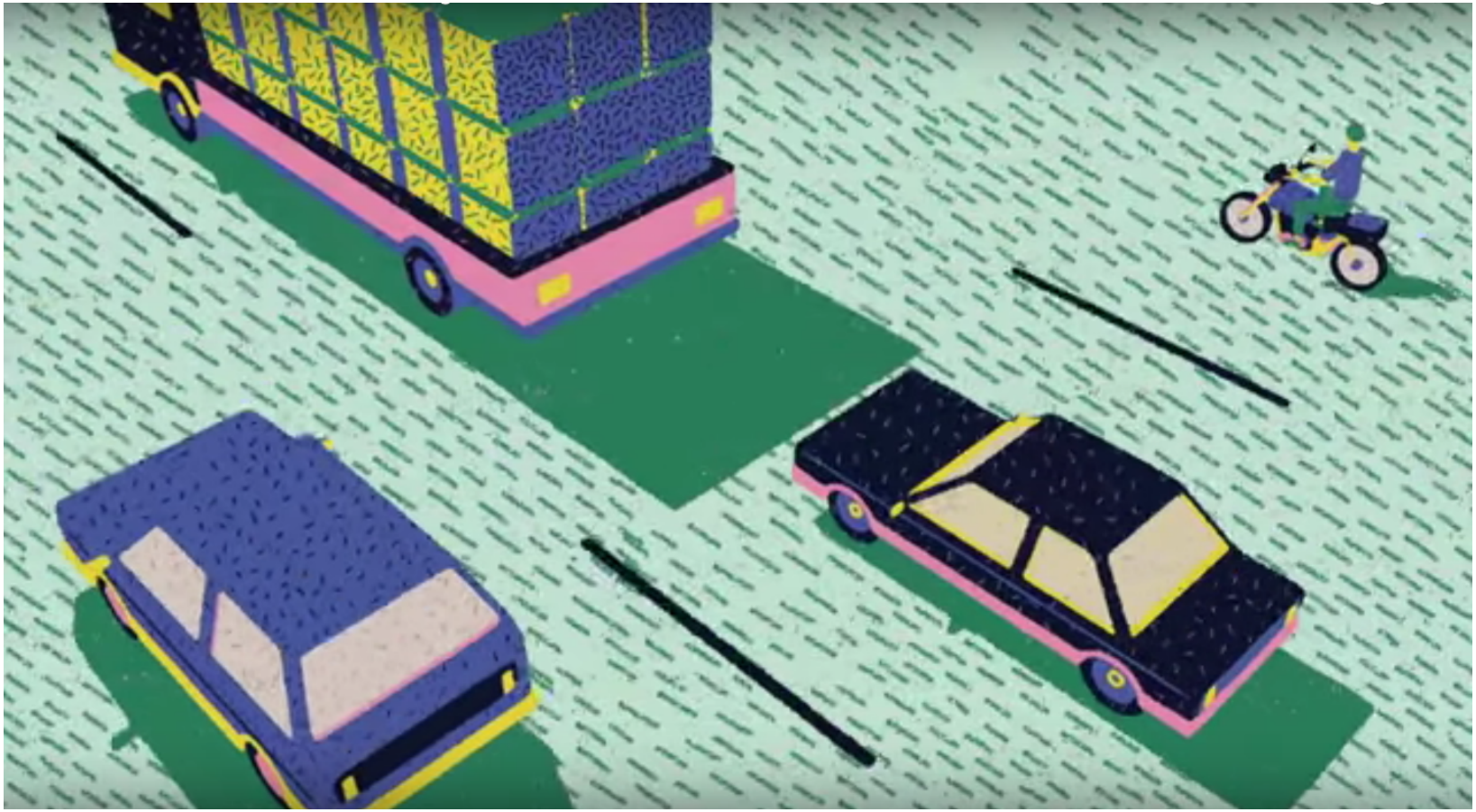

Figure: An Ethical Scenario.

Reaction vs Decision

- Humans react while machines decide

Ethical Automation: Trust in Automation

Figure:

Conclusion

- These moral dilemmas are too complicated and too controversial to decide.

Ethical Automation: Trust in Automation