Data Science for the Juvenile Court

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Ubiquity, Abstraction, Absurdity

Figure 1:

Human Driven Process

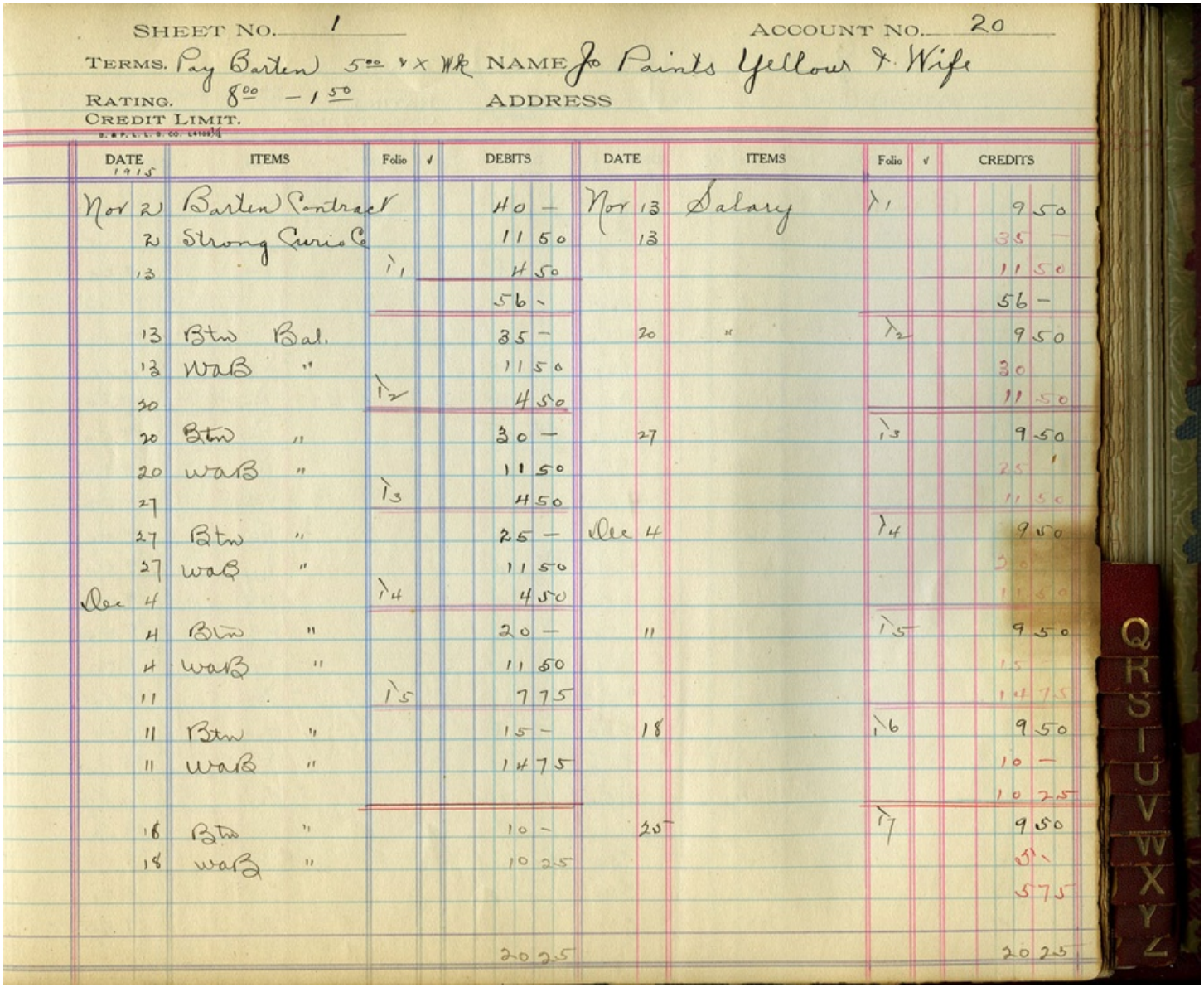


Figure 2: Spreadsheets are digital ledgers

Complex But Concrete

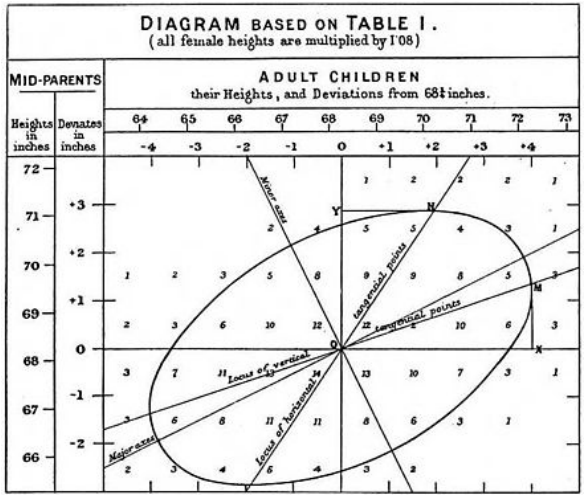


Figure 3: Galton's Work on Regression to the mean. He was also a racist piece of garbage

Cloud Computing

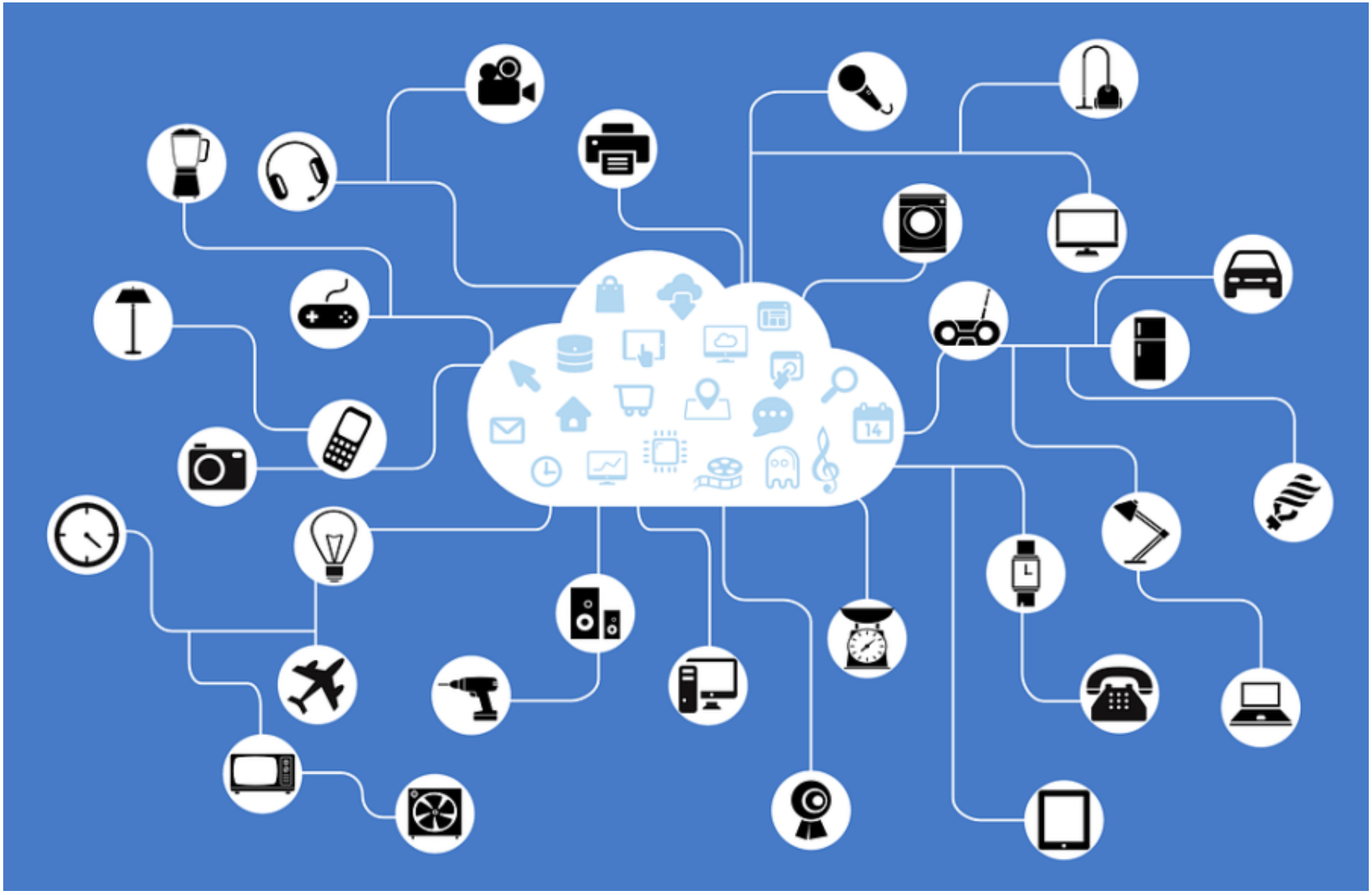


Figure 4: Complex AND Abstract

Data science, what is it?

Figure 5:

Data science, what is it?

- Data Science is the way we study the capture, storage, and transformation of data into information.
- It's that complex stuff Marty talks about all the damn time. –Toastmasters, 2017

Data Scienctists

Hadley Wickham,
PhD

Data Science is

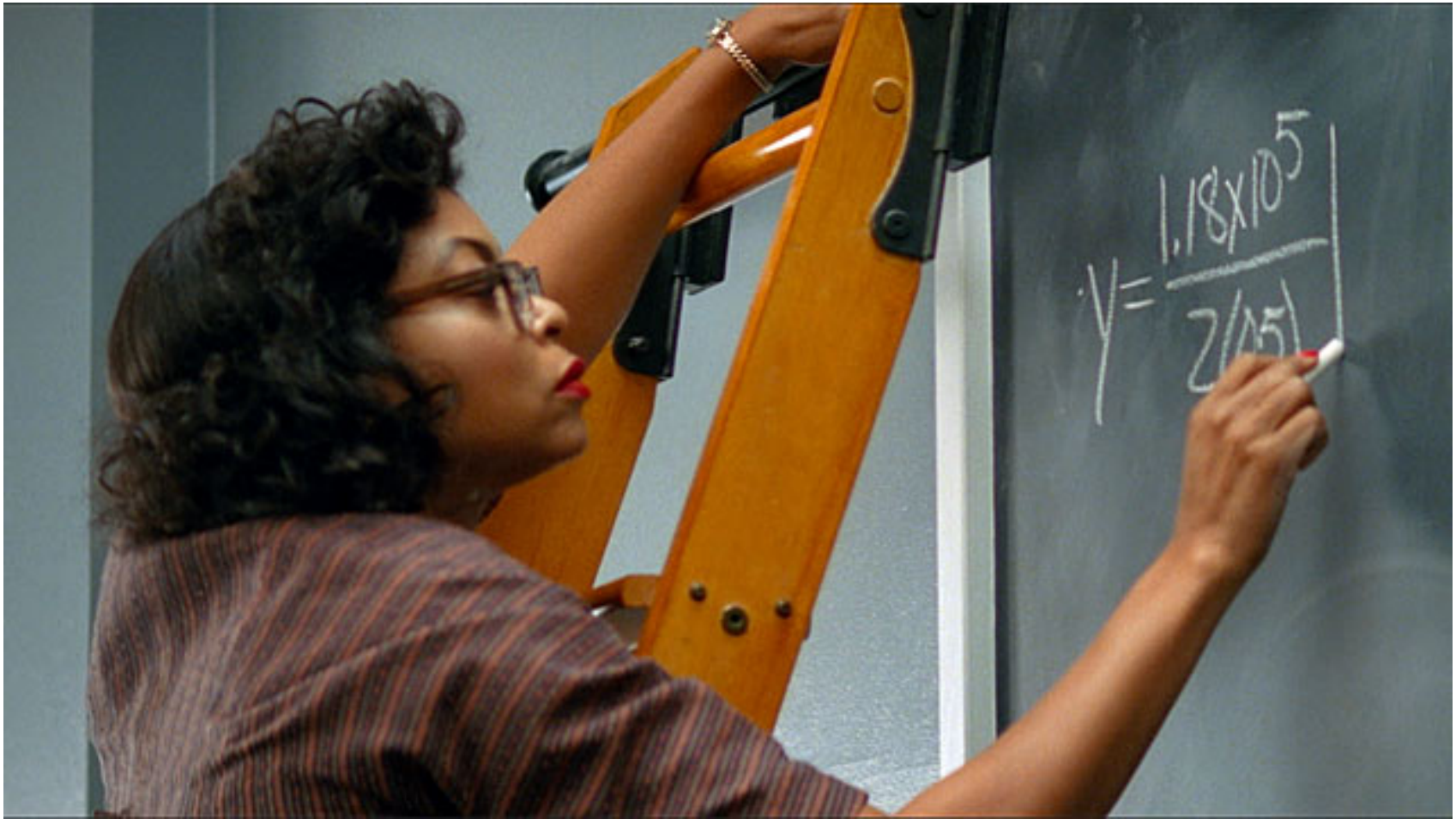


Figure 6: Using data to solve probelms

What is Social Good?

Figure 7: If we work at 1100 S Hamilton, we work for the social good

What is Data Science for the Social Good?

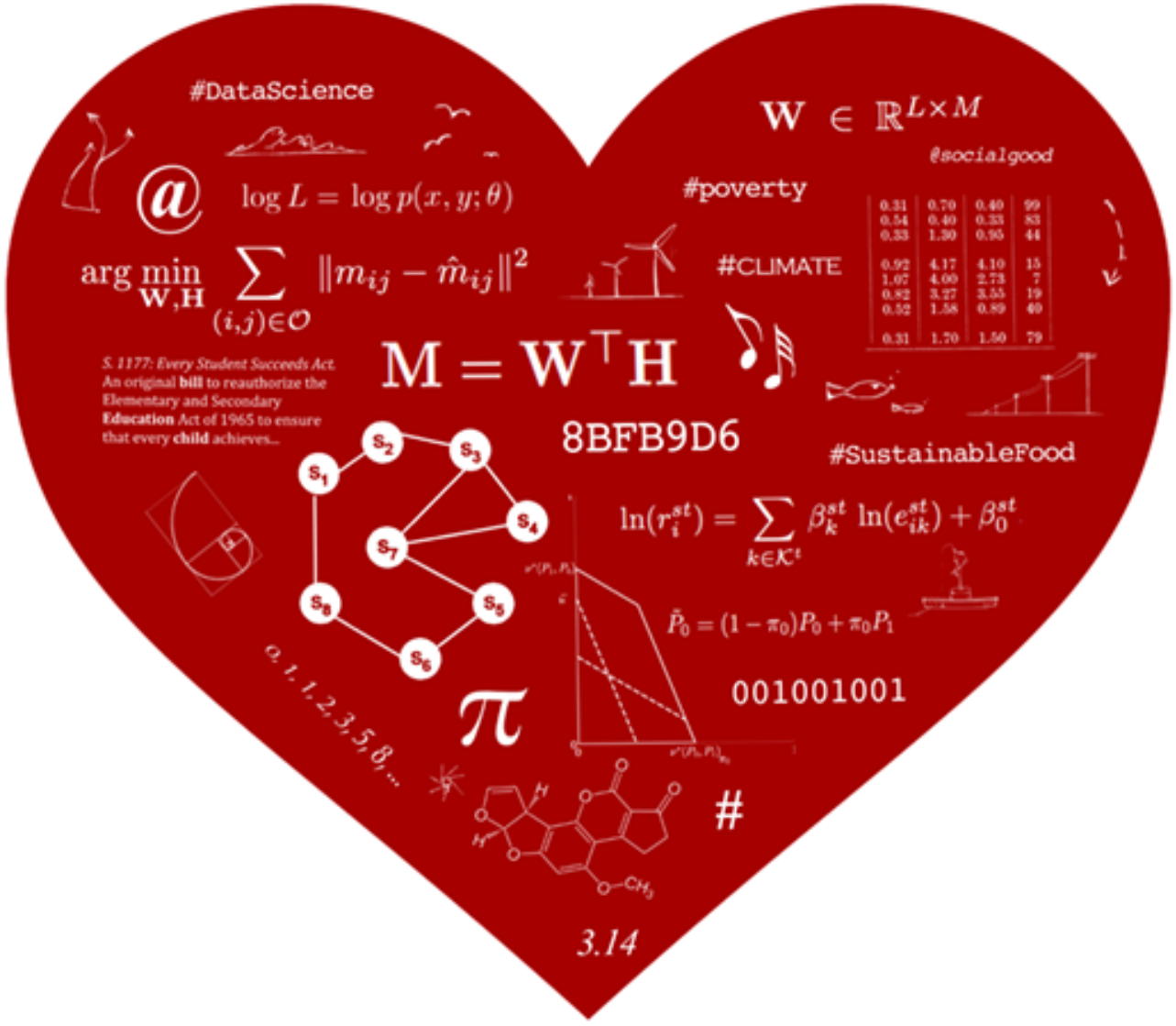
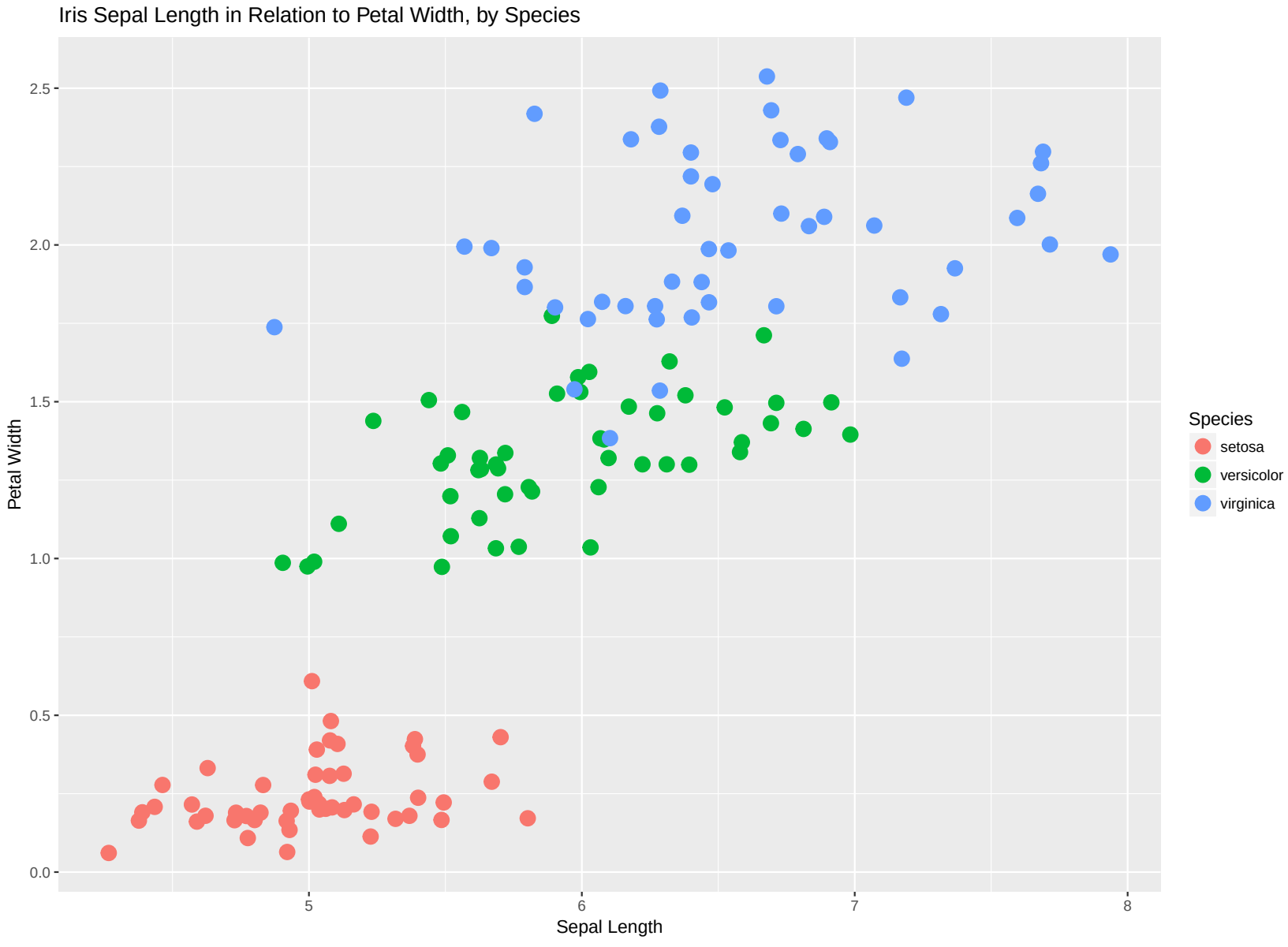


Figure 8:

Data Science for the Social Good

- Using data science principles to make the world a better place
- Identiying problems
- New Solutions
- Reproducing it to scale
- What would Data Science for the Juvenile Court Look Like?

Concrete Steps: What is Visualizing our Information?



Sepal Plot

- Shows us at a glance what the relationship is between flower parts across three species of flower
- What does our data show us?

Our Data, Visualized

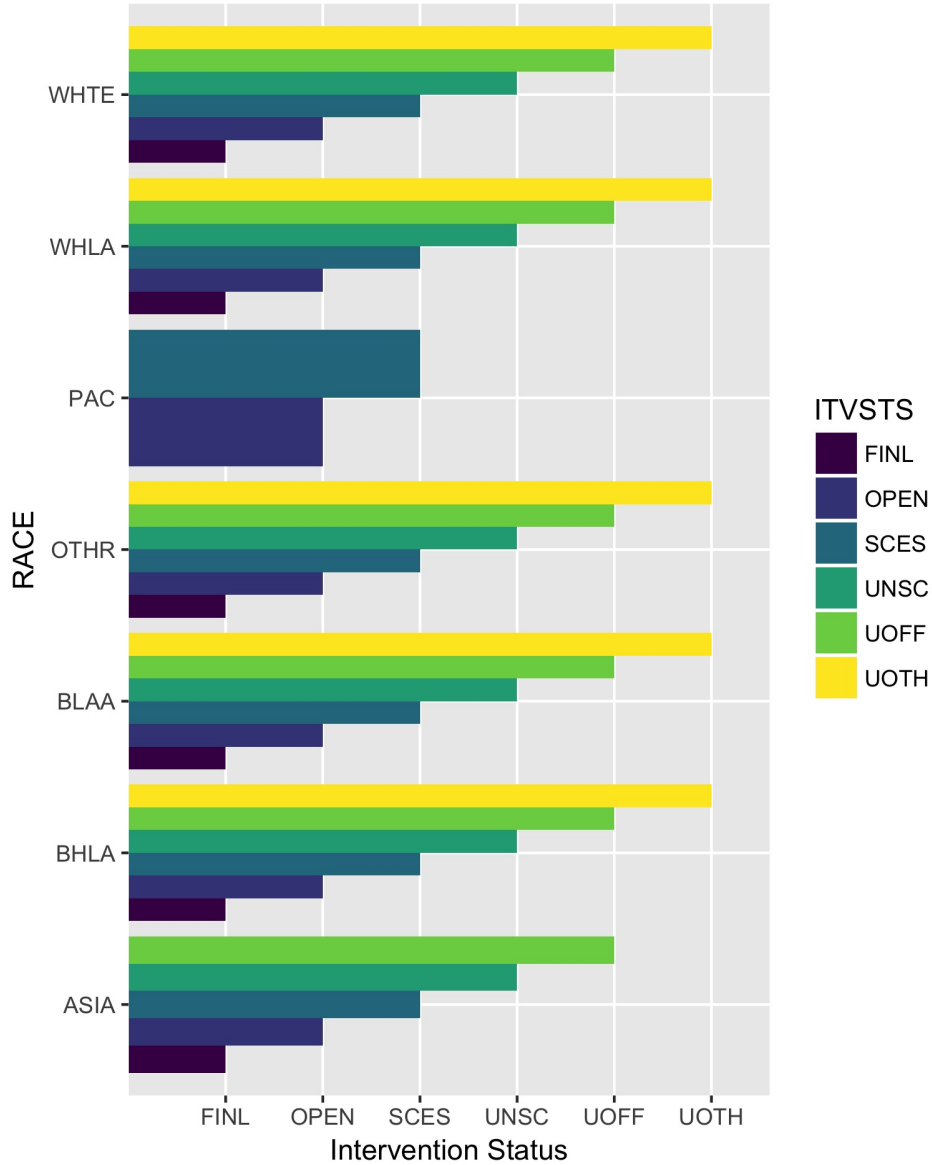


Figure 9: Based on Diversion Data from 2012-2016

Methods

- Tidy Data
- Statisical Analysis
- Understaning the problem

Tools

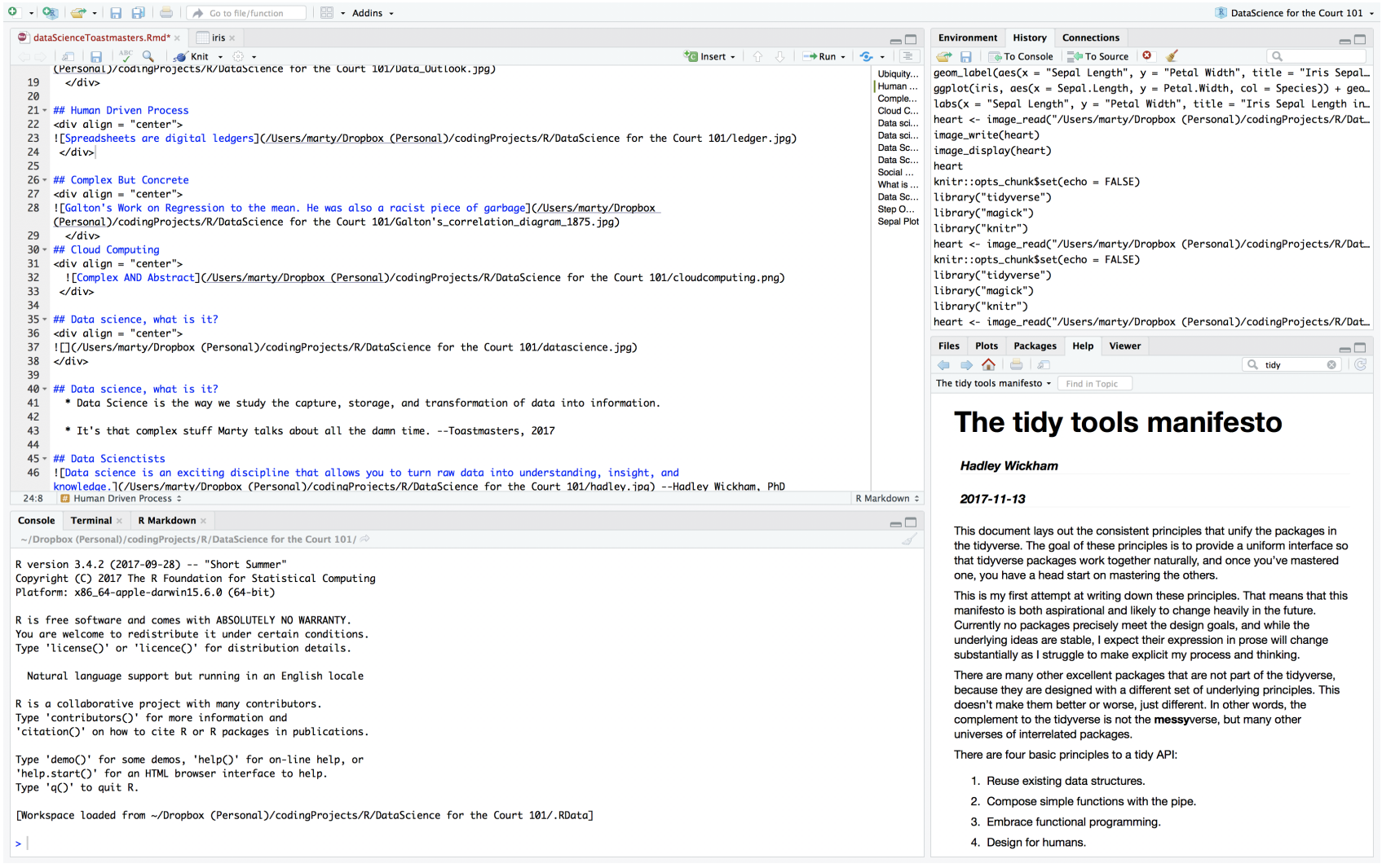


Figure 10: The code behind this presentation

Data Science for the Juvenile Court

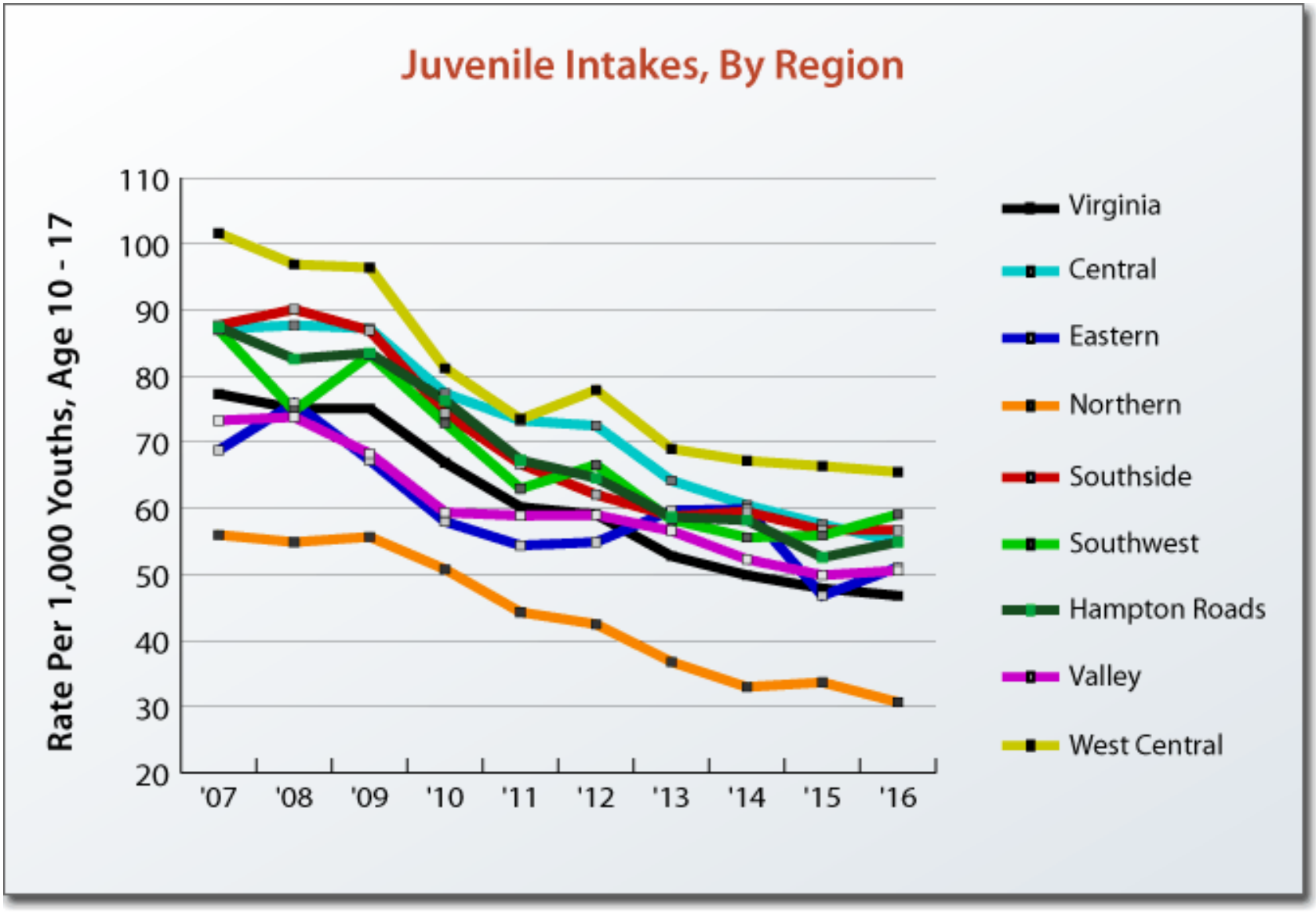


Figure 11: End Game: Explaining this!