

# 15+ YEARS OF LEARNING COMPUTATIONAL INTELLIGENCE

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WRITING WOMEN OUT OF THE HISTORY OF SCIENCE

# ORIGINAL MACINTOSH TEAM



# KATHERINE JOHNSON - NASA MATHEMATICIAN



BIOGRAPHY OF A WAY OF THINKING:  
MYTH OF BLACK CRIMINALITY

“ . . . our brethren at WNYC, the public radio station here in New York, recently ran a series in which they reported that one in five people stopped last year by New York City police were teenagers 14 to 18 years old. **86%** of those teenagers stopped were either **Black or Latino**, most of them **boys**. Last year, more than **120,000** stops of Black and Latino; the total number of Black and Latino boys that age in New York City isn't much more than that. **177,000** or so, which suggests that every teenage boy who's Black and Latino in this City of New York is likely before he graduates to have been stopped and frisked by the police.”

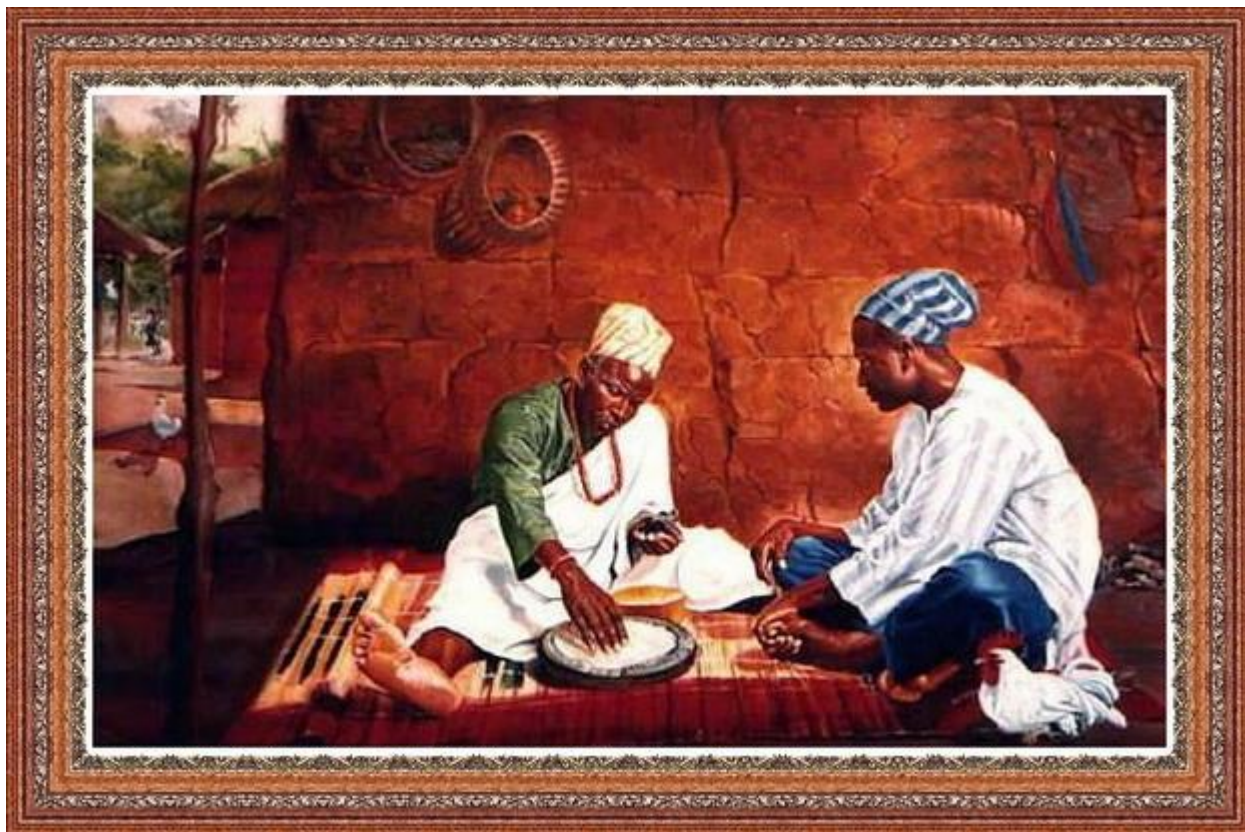
(Moyers and Muhammad, 2012)

# BIOGRAPHY OF A WAY OF THINKING: COMPUTATIONAL THINKING & RAP

YORUBA

Scale 1:25,000,000  
Reference Projections  
standard parallels 30°N and 30°S





## LITERARY CORPUS

*Òrẹ sáré tófá lọ  
Òrẹ sáré tófá lọ  
Bí èniyàn ń tàn ọ  
Ọ mọ ẹ gbà o  
Bèniyàn ń tàn ọ  
O mọ ẹ gbà o  
Òtító korò  
Ifá ní ọ layé.*

Charlestown, July 24th, 1769.

TO BE SOLD,

On THURSDAY the third Day  
of AUGUST next,



A CARGO

OF

NINETY-FOUR

PRIME, HEALTHY



NEGROES,

CONSISTING OF

Thirty-nine MEN, Fifteen BOYS,  
Twenty-four WOMEN, and  
Sixteen GIRLS.

JUST ARRIVED,

In the Brigantine DEMBIA, *Francis Bare*, Master, from SIERRA-  
LEON, by

DAVID & JOHN DEAS.

THE AFRICAN TOOK SOMETHING WITH HIM IN  
THE MIDDLE PASSAGE

- HIS WAY OF THOUGHT

‘SIGNIFYING’

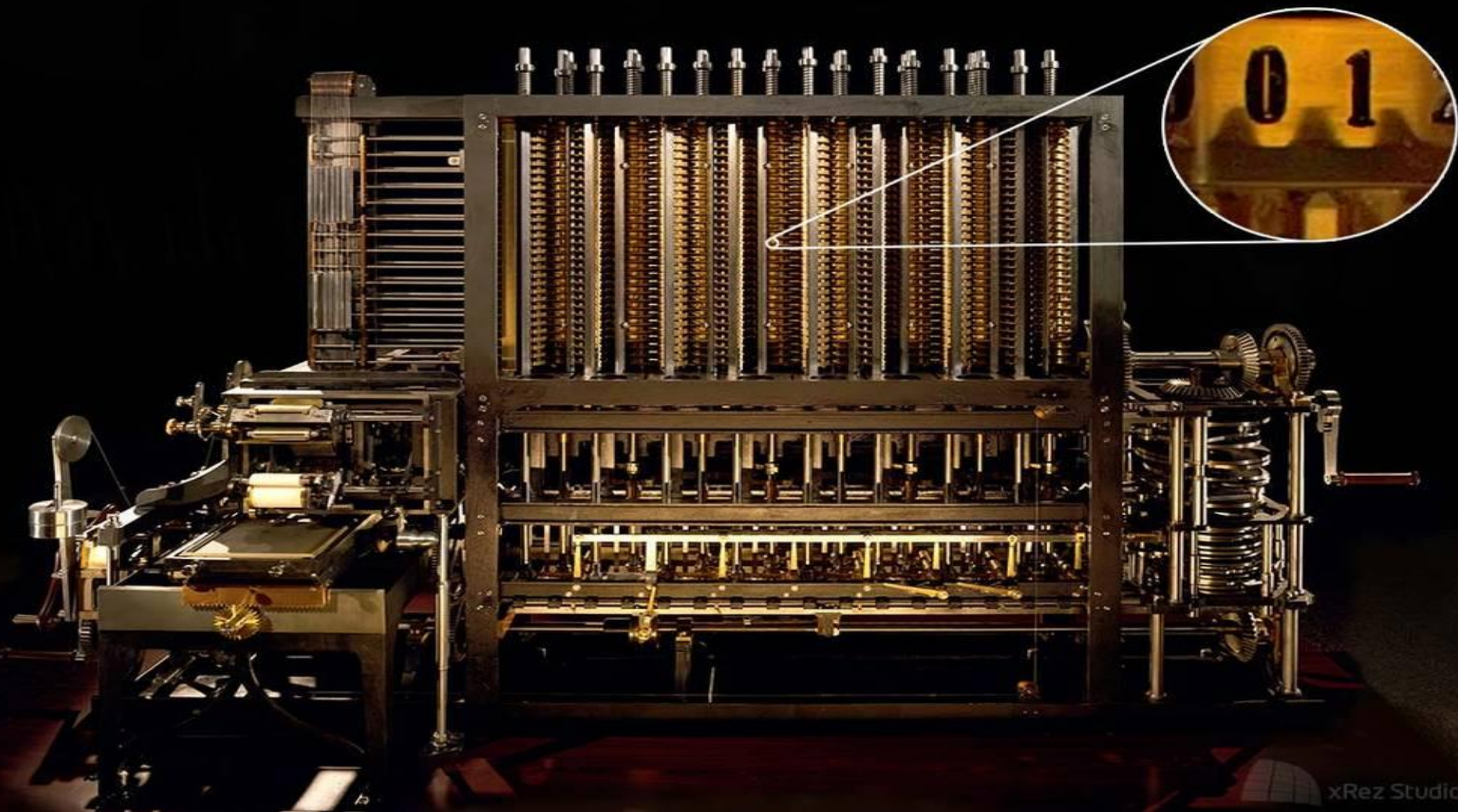


BUT — OH! YE LORDS OF LADIES INTELLECTUAL,  
INFORM US TRULY, HAVE THEY NOT HEN-PECK'D YOU ALL?

- DON JUAN, LORD BYRON (1819)







‘COMPUTATIONAL THINKING’



# Hiphopathy

Computational Thinking in HipHop

[View the Project on GitHub](#)

omoju/hiphopathy

Download  
**ZIP File**

Download  
**TAR Ball**

View On  
**GitHub**

This project is maintained by [omoju](#)

Hosted on GitHub Pages — Theme by [orderedlist](#)

# Hiphopathy

HipHopathy, A Socio-Curricular Study of Introductory CS Anchored with Data Science Using Rap Lyrics.

Welcome to an innovative way of teaching and sharing the delights that comes when data, computational methods and culture collide. The goal of this work is to connect cultural relevance to computing by introducing elementary techniques of natural language processing with a corpus of hip-hop data.

Art is something that we often believe is separate from the so-called hard sciences. As a result, people who are gifted in the arts or are inclined in that direction, shy away from the sciences because of the perceived false choice of choosing between the arts or the sciences.

I want to change this false dichotomy by bringing the power of computational methods to investigate and explore the riches that are inherent in the arts. It is for this reason that I have chosen to use a corpus of hip-hop lyrics as the dataset on which we will practice our computational techniques. At the end of this series of exercises you will be able to build a visualization of the occurrence of certain words in a rap corpus.

## Resources

[Chapter 1: Snap to Python](#)

[Chapter 2: Lyrics Exploration](#)

[Chapter 3: Lets play with some APIs](#)

