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Collections as Data at Florida International University

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Collections as Data

Research Possibilities @ FIU



Jamie Rogers
Assistant Director of Digital Collections



What is data?

individual facts, figures, signals, measurements, etc. that do not carry inherent meaning until organized, structured, categorized, and calculated.



How can
digital
collections
be used as
data?

Types of Digital Collections Data

Metadata

structured and standardized descriptive content

Text

unstructured textual content derived from books, newspapers, transcripts, etc.

Audio/Video

unstructured video and/or audio content in the form of music, oral histories, interviews, home movies, etc.

Images

unstructured visual content in the form of photographs, drawings, maps, etc.



Close vs Distant Reading

in text analysis



But what does that mean?

Distant reading allows us to ask both simple and complex questions of texts.



DH Tools for Data

There are a number of tools and techniques for computational analysis in digital scholarship. These are just a few examples.

Plug and Play

Voyant
Palladio

Supervised Machine Learning

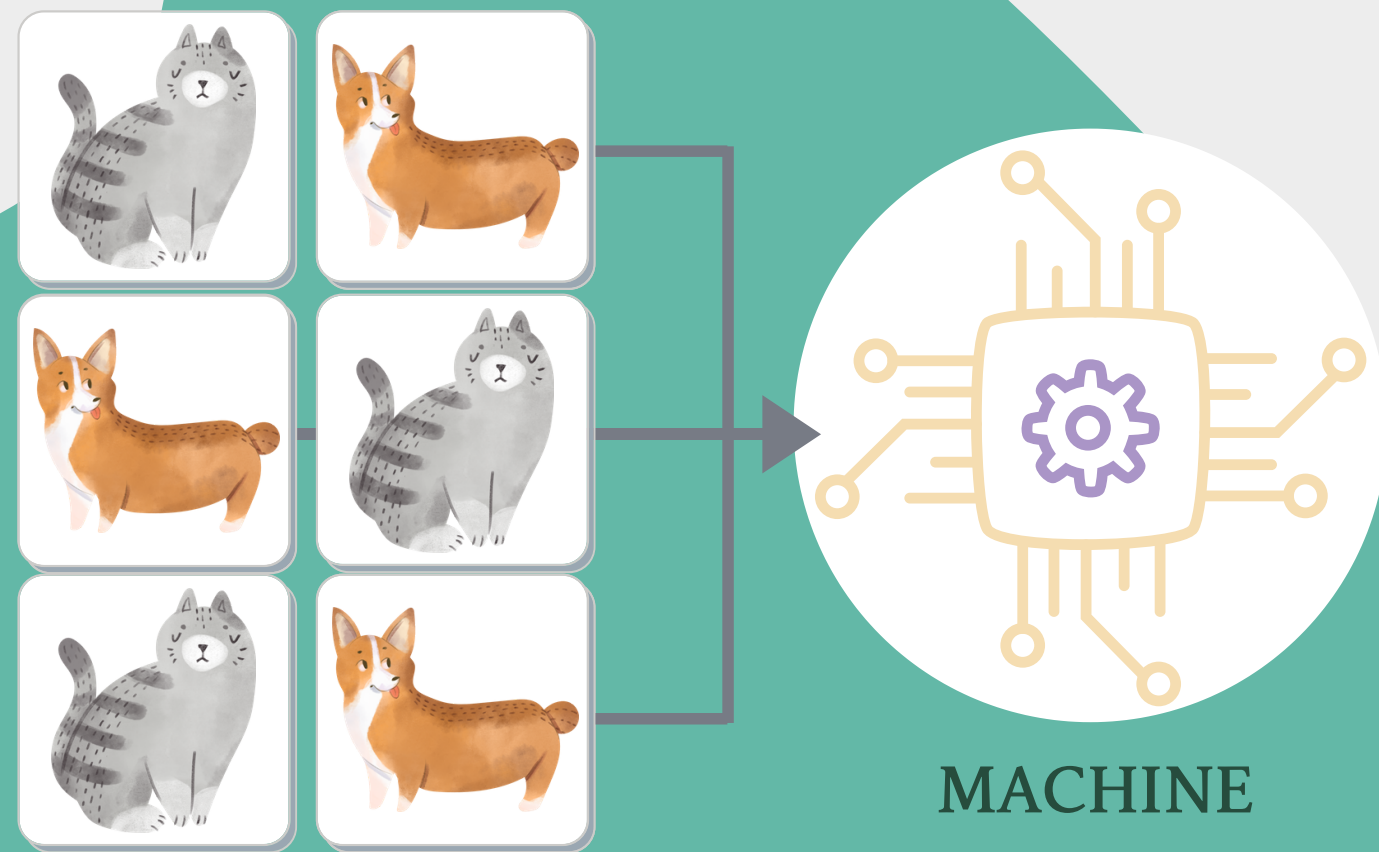
spaCy
Prodigy

Programing Languages

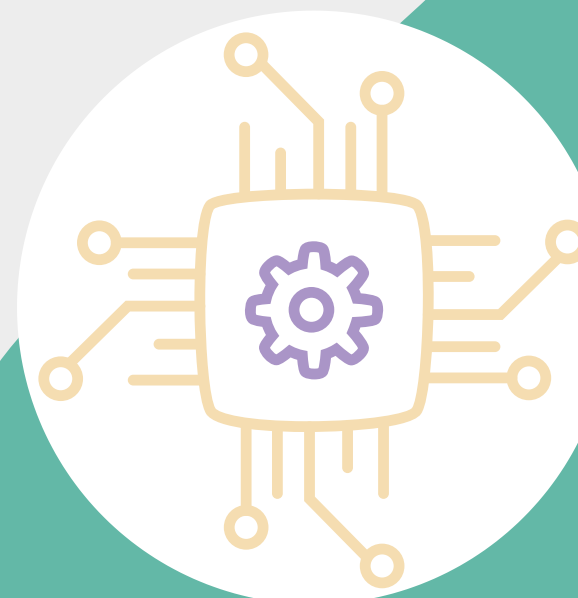
Python
R

What is

Unsupervised Machine
Learning?



Step 1



SIMILAR GROUP 1

MACHINE

SIMILAR GROUP 2

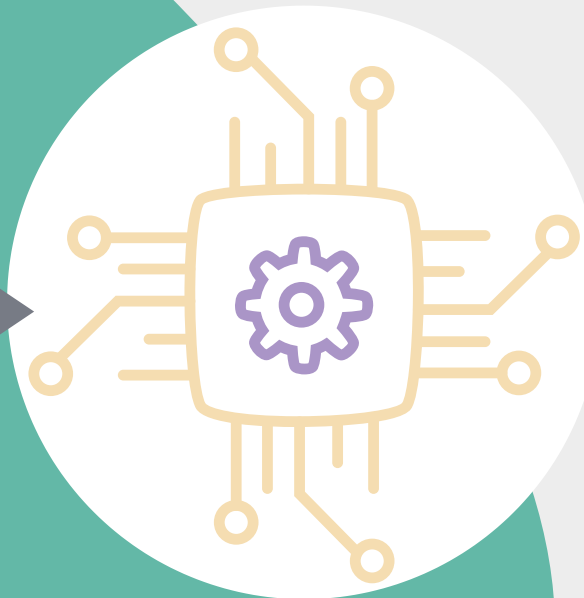
Step 2

What is

Supervised Machine Learning?

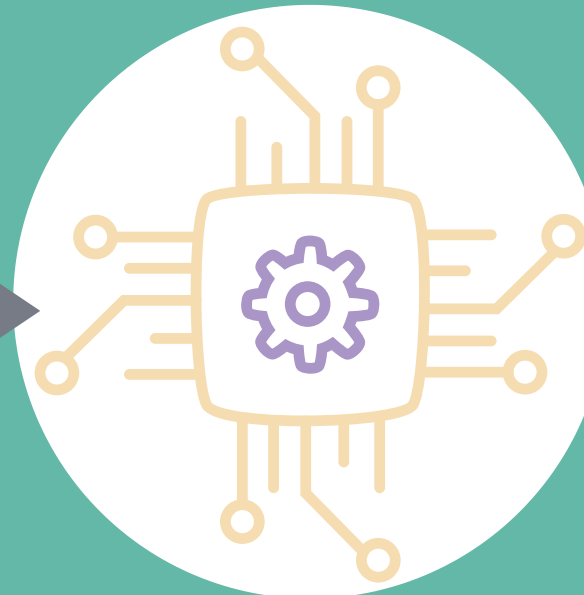
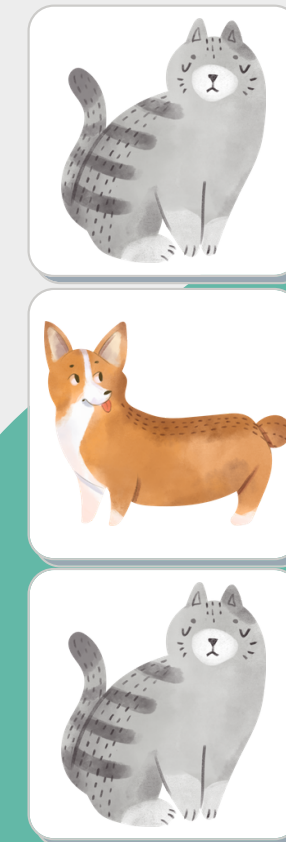


Label
"CATS"



MACHINE

Step 1



MACHINE



"CATS"



"NOT CATS"

Step 2

dLOC as Data

<https://dlocasdata.domains.uflib.ufl.edu>

Goal 1

Provide access to previously digitized Caribbean newspapers for bulk download of text and images

Goal 2

Develop a thematic toolkit for text analysis focusing on the history of hurricanes and tropical cyclones and their impact on the region

Goal 3

Develop outreach strategies that emphasizes training opportunities, supporting our local & dLOC community



dLOC as Data Team



Project Leads

Miguel Asencio, Executive Director, Digital Library of the Caribbean (dLOC), FIU
(Senior Administrative Lead)

Jamie Rogers, Assistant Director of Digital Collections, FIU
(Senior Administrative Lead)

Perry Collins, *Scholarly Communications Librarian, UF*
(Project Lead)

Hadassah St. Hubert, Program Officer at National Endowment for the Humanities
(Scholarly Lead)



Project Team

Rebecca Bakker, Digital Collections Librarian

Molly Castro, Digital Humanities Librarian

Boyuan Guan, Lead Developer, GIS Center

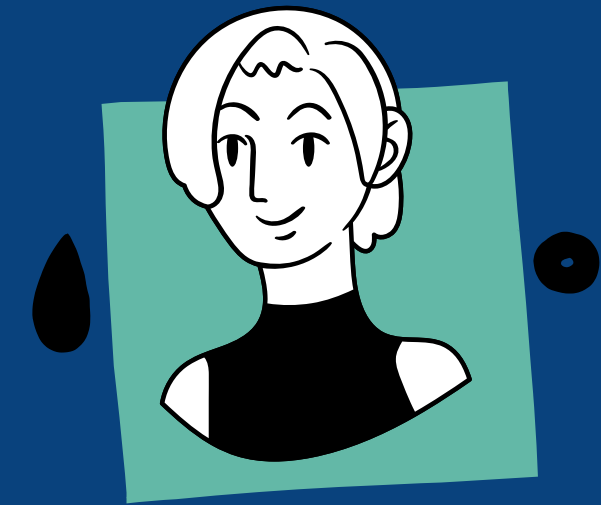
Jill Krefft, Institutional Repository Coordinator
Chelsea Dinsmore, Director, Digital Support Services

Laura Perry, Digital Production Manager,
Digital Support Services

Laurie Taylor, Chair, Digital Partnerships & Strategies

Ivanna Moreno, Caribbean Data Curation
Graduate Intern

Matthew Davidson, Caribbean Data Curation
Graduate Intern



Advisory Board

Julio Capo Jr., Associate Professor of History, FIU
Fletcher Durant, Head of Conservation and Preservation, UF

Alex Gil, Digital Humanities Librarian, Columbia University

Melissa Jerome, Project Coordinator for the Florida & Puerto Rico Digital Newspaper Project, UF

Amalia Levi, Archivist and Cultural Heritage Professional, HeritEdge Connection in Barbados

Preeya Mohan, Fellow, Sir Arthur Lewis Institute of Social and Economic Studies, University of the West Indies, St. Augustine

Leah Rosenberg, Professor of English, UF

Project Activities

What we have accomplished so far...

OCR

Improved quality of text OCR
across collection

Data Access

Structured and organized text for
bulk download in Dataverse

Hurricanes

Identified mentions of hurricanes
and surrounding text

Machine Learning

Training and running models to
disambiguate named entities and
generate structured data



Lesson 1

Good quality OCR is VERY important

Lesson 2

It is helpful to envision how data will be used in order to organize and make available

Lesson 3

Having a research question in mind is VERY useful before you begin data analysis

Lesson 4

Even computer aided analysis requires significant human input and understanding of the data

Discussion

What FIU collections do you think would be useful as data?

Other project examples

Collections as Data: Part to Whole

<https://collectionsasdata.github.io/part2whole/>





Thank you!

Jamie Rogers

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