

EMu and DwC

How will EMu handle the new Unified Model?



Agenda

Before – History of EMu and DwC

01

During – Things that Become Possible

02

After – What Comes Next?

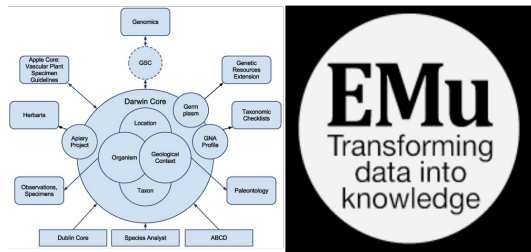
03



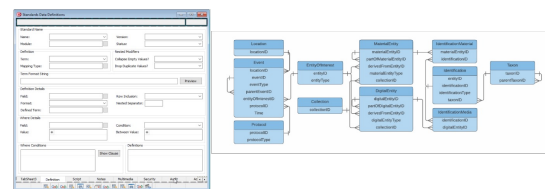
Changes Through Time

BEFORE

Both EMu and DwC have changed over the years, reflecting increased desire to share data and awareness of the standards needed to do so effectively.



Record-level Terms	Darwin Core terms, institutions, collections, nature of data record	Simple Darwin Core (flat)	Language: Search	
Occurrence	evidence of species in nature, observers, behavior, associated media, references		View 12 elements 0	View 12 elements 0
Event	sampling protocols and methods, date, time, field notes		Date Last Modified	Subspecies
Location	geography, locality descriptions, spatial data		Collection Code	Scientific Name Author
Identification	linkage between Taxon and Occurrence	Scientific Name	Identified By	
Taxon	scientific names, vernacular names, names origins, taxon concepts, and the relationships between them	Record ID Number	Year Identified	
GeologicalContext	geologic time, chronostratigraphy, biostratigraphy, lithostratigraphy	Region	Mark Standard	
ResourceRelationship	explicit relationships between identified resources (e.g., one organism to another, location to location, etc.)	Phylum	Day Identified	
MeasurementOfPart	measurements, facts, characteristics, assertions, references	Class	Tax Number	
		Order	Collector Number	
		Family	Field Number	
		Genus	Collector	
			Year Collected	



1990s Gen Z – Digital Natives

1997 – EMu born

1999 – DwC born

2000-2009 Coming of Age

2005 – EMu gets DwC tabs

2009 – DwC Ratified

2010-2022 Gen Alpha – Tech Immersed

2022 – EMu gets standards module

2022 – DwC gets a new model

Connecting EMu to the new model.

From static to dynamic

estandards module

1. Any standard
2. Any format
3. Any field

The screenshot shows the 'Standards Data Definitions' application window. It features a top toolbar with standard window controls. The main interface is divided into several sections:

- Standard Name:** Includes fields for Name, Version, Module, and Status, each with a dropdown or selection box.
- Definition:** Includes fields for Term and Mapping Type.
- Nested Modifiers:** Includes fields for Collapse Empty Values? and Drop Duplicate Values?.
- Term Format String:** A text input field with a 'Preview' button.
- Definition Details:** Includes fields for Field, Format, Defined Term, Row Inclusion, and Nested Separator.
- Where Details:** Includes fields for Field, Value, Condition, and Between Value.
- Where Conditions:** A text area with a 'Show Clause' button.
- Definitions:** A text area for defining terms.

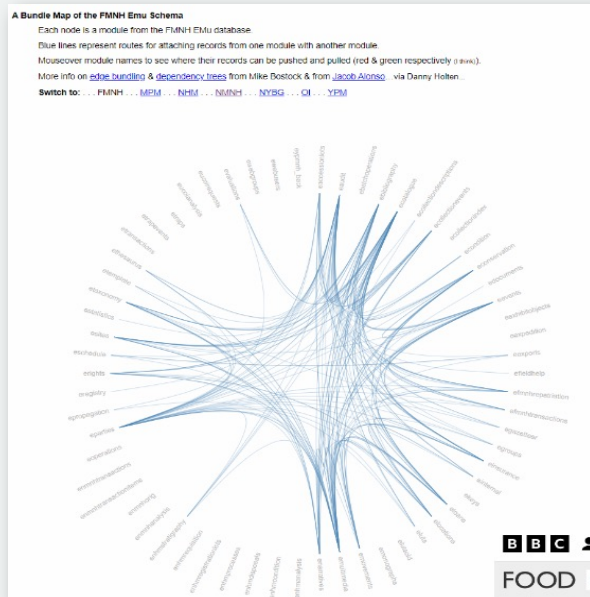
At the bottom, there is a tabbed interface with tabs for 'TabSheet3', 'Definition', 'Script', 'Notes', 'Multimedia', 'Security', 'Audit', and 'Ac'. Below the tabs is a toolbar with various icons for file operations and editing.

Defining Schemas

How can GBIF help data providers?

Recipes Needed

Case studies with predefined and registered schemas.



AFTER

BBC [Sign in](#) [Home](#) [News](#) [Sport](#) [Health](#) [Worklife](#) [Travel](#)

FOOD Discover more than 10,000 fantastic recipes on BBC Food


[Home](#) [Recipes](#) [Budget Recipes](#) [Chefs](#) [Stories](#) [Diets](#) [Programmes](#) [Techniques](#)

[In Season](#) [Occasions](#) [Courses](#) [Ingredients](#) [Dishes](#) [Collections](#)

Mary Berry's lemon meringue cupcakes

★★★★★ 15 ratings

[Rate this recipe](#)



Preparation time
Less than 30 mins

Cooking time
10 to 30 mins

Serves
Makes 12 cupcakes

Dietary

Mary Berry's lemon meringue cupcakes have a lemon curd centre with a swirly meringue top to make a classy and irresistible addition to afternoon tea.

For this recipe you will need an electric hand whisk.

FIELD.

Thank you!

Sharon Grant

sgrant@fieldmuseum.org

Field Museum of Natural History, Chicago.
USA