

**Instituto Brasileiro de Informação em  
Ciência e Tecnologia**

**A Digital Repository for the Herbarium  
Collection of Brasília Botanical Garden**

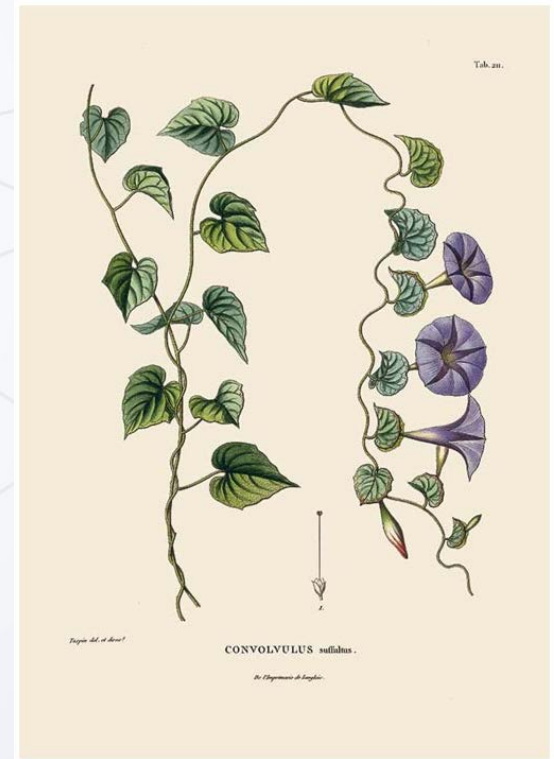


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# Introduction

- Since the Brazil discovery, several naturalist expeditions had cataloged plants, animals, and others
- In specific relation to naturalistic expeditions about the flora, several botanical studies had performed in Brazil, mainly because the continental dimensions of the country



Alexander von Humboldt

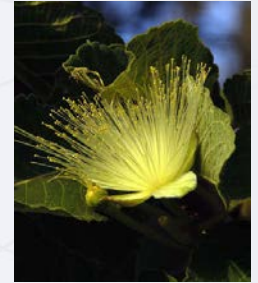
# Cerrado (Brazilian Savanna)

- The Cerrado biome is composed with native vegetation with gallery forest, typical savanna and dry grassland.
- Its preservation has extreme relevance because it has the three main river basins of the South America.



# Brasília Botanical Garden - JBB

- The JBB was created in 1985, however, its plan comes from the Brasilia project, in the 60's
- It is a Botanical Garden with 500 hectares of public visiting area and 4500 hectares of Ecological Station
- A unity of integral protection, intended to preserve the Cerrado in the urban area



# JBB Herbarium

- Standard definition: a herbarium is a collection of dried plants (*exsiccates*) arranged according to a particular system

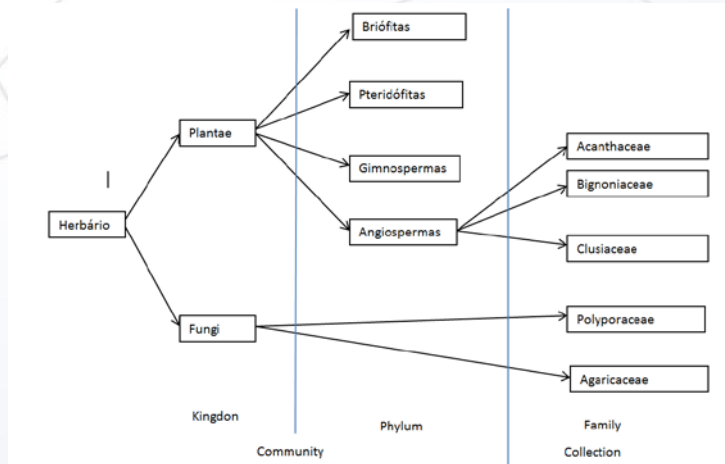


# Herbarium Repositories

- The Repository for JBB Herbarium was developed in DSpace, version 4, and it has the objective to promote the digitalized *exsiccates*
- The repository should provide a digital collection of more than 15,000 images of *exsiccates* with several species, with emphasis on the Cerrado biome

# Herbarium Repositories

- The structure of the repository followed the standard taxonomy: Kingdom and Phylum form the communities and sub-communities, and the families are the collections



# Herbarium Repositories




Using the Dublin Core Metadata Schema Qualified, and adjusting it to reproduce the catalog cards of *exsiccates*

	Element and Qualifier	Label
1	dc.title	<i>Scientific Name</i>
2	dc.title.author	<i>Scientific Name's Author</i>
3	dc.title.alternative	<i>Common Name</i>
4	dc.contributor.author	<i>Collector</i>
5	dc.contributor.other	<i>Contributors</i>
6	dc.identifier	<i>Registration number</i>
7	dc.description.taxonomy	<i>Taxonomy</i>
8	dc.description.habitat	<i>Habitat Characteristics</i>
9	dc.description.abstract	<i>Plant Description</i>
10	dc.description.other	<i>Additional Information</i>
11	dc.date.issued	<i>Date of Colect</i>
12	dc.coverage.spacial	<i>Specific Place; st. Country</i>
13	dc.coverage.latitude	<i>Latitude</i>
14	dc.coverage.longitude	<i>Longitude</i>
15	dc.rights.holder	<i>Copyright</i>
16	dc.rights.license	<i>Adopted License</i>



# Herbarium Repositories

- Listing items by: date of collect, scientific name, common name, collector name and taxonomy

Pré-visualização	Data da coleta	Nome científico	Nome comum	Coletor	Taxonomia
	6-Mai-2009	Jacaranda ulei Bureau & K. Schum	Jacarandá	Silva, Michelle Carvalho	Plantae: Spermatophyta: Magnoliophyta: Magnoliopsida: Asteridae: Scrophulariales: Bignoniaceae: Jacaranda
	22-Out-2009	Kielmeyera coriacea	Pau-santo	de Paiva, Valdina Ferreira	Familia Clusiaceae, Género Kielmeyera é um género botânico pertencente à família Calophyllaceae.
	14-Jun-2011	Kielmeyera variabilis Mart.	Pau-santo	Oliveira, Mariana	Familia: Guttiferae; subfamília: Clusioidae

**Coletor**

- de Paiva, Valdina Ferreira 2
- Aguiar, S.N.F. 1
- Oliveira, Mariana 1
- Silva, Michelle Carvalho 1

**Nome científico**

- Hymenaea slygonocarpa 1
- Jacaranda ulei Bureau & K. Schum 1
- Justicia santholaki 1
- Kielmeyera coriacea 1
- Kielmeyera variabilis Mart. 1

**Nome comum**

- Pau-santo 2
- Jacarandá 1
- Jatobá 1

**Data da coleta**

- 2011 1
- 2009 2
- 2005 2

# Conclusion

- The DSpace software, originally for academic repositories, viewed as a Digital Herbarium seems to be effective
- Making possible the access to a type of collection usually restricted
- The same way it highlighted the versatility of the QDC metadata to describe a wide range of document types

# References

- [1] T. M. **CERATI** and R. A. M. **LAZARINI**. A pesquisa-ação em educação ambiental: uma experiência no entorno de uma unidade de conservação urbana. *Ciência & Educação*, 15(2):383-92, 2009.
- [2] N. P. dos **SANTOS**, A. C. **PINTO**, and R. B. **ALENCASTRO**. Theodoro Peckolt: naturalista e farmacêutico do Brasil imperial. *Química Nova*, 5(21), 1998.
- [3] M. **SELLARO**. Política de coleções vivas em jardins botânicos. *Anals of XVI Reunião de Jardins Botânicos: Conservação ex situ em jardins botânicos*, 2008.

Thank you!

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