PubCode

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PubMed Entrez Nodes

Entrez is a NCBI text-based search and retrieval system already employed by PubMed

-We will borrow concepts from current APIs to to provide a database of published code.

Significance:

"Credit where credit is due"	**Reproducibility**	**Documentation and Integrity**	**User searchability**

Day 1

Day 2

Day 3

Interface Design

-   Defining a QC
    metric
-   Overcoming the
    difficulties to
    versioning
-   Mostly built in
    HTML/CSS/JS

Populate PubCode

Functional Examples:

-Danger Track
PubMed: 28503299

-Bow Tie
PubMed:19261174

Define the long term
framework

Relational Identifiers

Open source: Can I
use it?
Documentation: Can I
learn to use it?
Sample data: Is it
reproducible?

Searchable
PubCode Tags: Will
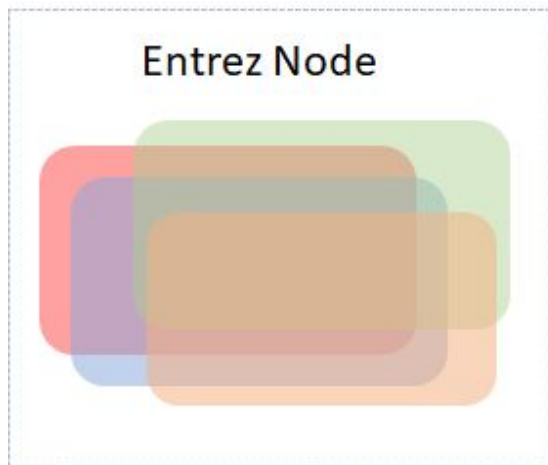this meet my needs?

Display

Pilot example tool
prototype run

PubCode Schema

Relational database users populate to enter their code to PubCode

Variable ID	Constraints	Description
PCID	Primary Key, Not NULL, UNIQUE	PubCode ID
PMID	Foreign Key, Not Null	PubMed ID
Date	Date, Not Null	Date of upload
Authors	Not Null	Author(s) of code
Language	Variable	Language of code
OS	Variable	Operating system(s) code works with
Dependencies and Versions	Variable	List of dependencies with version numbers
Licensing	Variable	Code license
Keywords	Variable	
Dataset IDs	Variable	List of datasets code has been run with (eg. GEO Accession, SRA Accession, etc.)

Proposed Long-Term Objective