

RESOURCES

metadata for CEDAR's training and

by CEDAR for on the fly validation of

BioSample metadata.

evaluation. The BioSample Validator is used

CEDAR: Easing Authoring of Metadata to Make Biomedical Data Sets More Findable and Reusable



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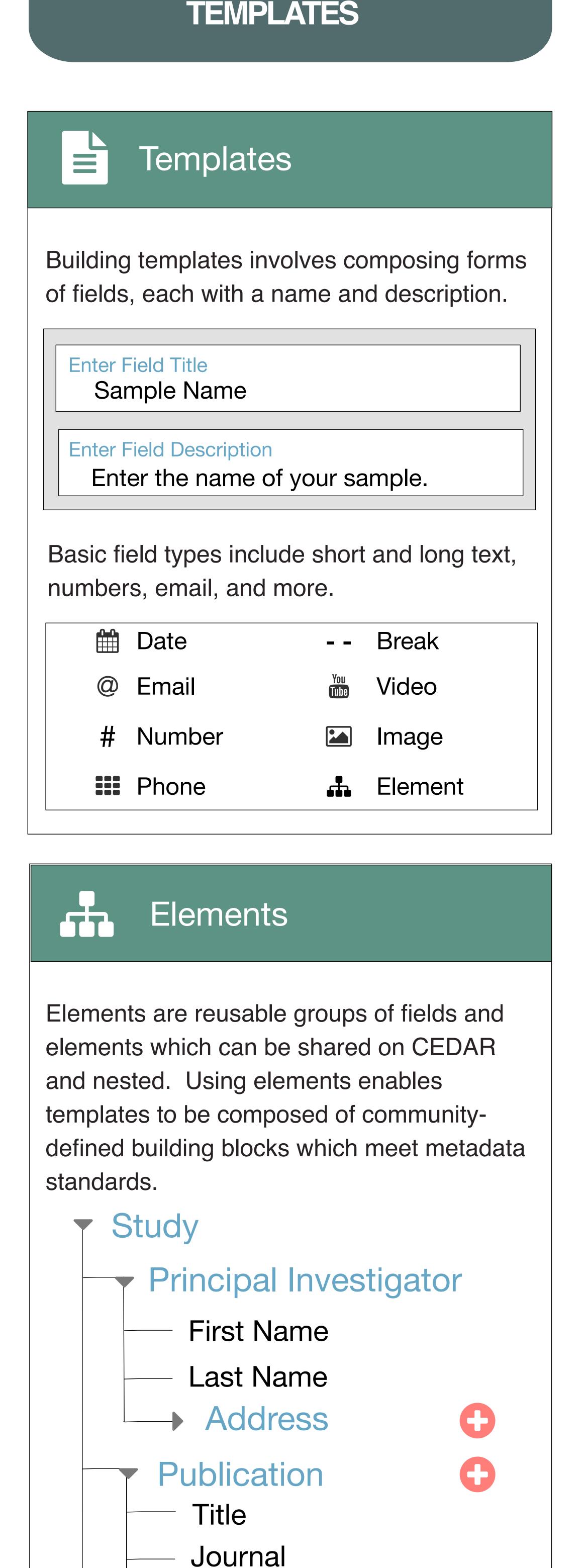
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metadatacenter.org

CEDAR is making data submission smarter and faster, so that biomedical researchers and analysts can create and use better metadata. Through better interfaces, terminology, metadata practices, and analytics, CEDAR optimizes the metadata pathway from provider to end user.

O BioPortal Folders CEDAR provides you a workspace to store CEDAR is powered by BioPortal, the world's your templates, elements and metadata. most comprehensive repostory of biomedical ontologies, to provide controlled terms for Organize your project into folders and manage your metadata over multiple metadata. submissions. Ontology: NCBITAXON Viroids BioSample Templates Viruses Other Sequences **Entity** Conceptual Entity Share Physical Object Substance Collaborate with your team using groups. Anatomical Structure Share documents and folders in CEDAR with Manufactured Object your team members. Publish your templates Organism to the community by making them public. Create reusable elements and share them with the community or your team. biosharing.org Create a group standards, databases, policies My Team BioSharing is exploring methods to serve machine-readable versions of content metadata standards, via providing Search provenance for their elements. The CEDAR team is working with BioSharing to inform the creation of metadata templates, rendering standards invisible to the researchers. Search for resources shared with you or in your workspace. Filter results by resource type. National Center for Biotechnology Information Filter by Type GEO and ArrayExpress are sources of

WORKSPACE



Date

Metadata CEDAR supports features that allow easy and rapid entry of metadata. Computerassisted intelligent authoring provides suggestions for both fields and values. BioSample Human Sample Name Organism **A**mphibian Animal **A**rchaeon OK Sex Tissue Isolate Age Biomaterial Provider JSON-LD Templates and metadata are represented as JSON-LD, a machine-readable and widely

accepted interchange format on the Web.

"@type": "http://data.bioontology.org/

%2F%2Fpurl.bioontology.org

NCBITAXON/9606"}

%2Fontology2FSTY%2FT001",

"@value": "http://purl.obolibrary.org/

ontologies/NCBITAXON/classes/http%3A

"organism": {

METADATA

VALIDATE and PUBLISH COLLABORATIONS

LINCS

Literacy Information and Communication System

CEDAR and LINCS are collaborating to provide an end-to-end solution to submit data and metadata to the LINCS repository, powered by CEDAR.



Human Immunology Project Consortium

CEDAR leverages ImmPort and HIPC insights about metadata workflow and organization. ImmPort metadata models, combined with ISA models, led to a CEDAR model for testing metadata handling. ImmPort and HIPC teams are pursuing end-to-end CEDAR-based workflows to obtain and validate rigorous user metadata, and submit those metadata to repositories like ImmPort and BioSample.

bioCADDIE

The CEDAR and bioCADDIE teams have been working together to create and evaluate forms for metadata about data sets and their providers. bioCADDIE is exploring CEDAR to collect metadata from individual data submitters using the bioCADDIE template, and the teams are evaluating alignment of their respective metadata specifications.

Stanford Digital Repository

CEDAR works closely with the Stanford Digital Repository in the Stanford University Libraries. Their rich experience with metadata entry, curation, and tools informs CEDAR's metadata approaches, and they are testing CEDAR templates for several projects.

Engagement

Validation

Automatic validation is done on the fly to give

immediate feedback of errors. The validator

• Empty attribute value for attribute 'age'.

• Empty attribute value for attribute 'tissue'.

attribute(s). If you do not have information

for the required field(s), please provide

Create, read, update and delete using the

CEDAR RESTAPI. Export templates and

/folders/{id}

/folders/{id}

/folders/{id}

/folders

metadata to your repository or application. Go

to metadatacenter.org/tools-training/cedar-api

/folders/{id}/details

/folders/{id}/permissions

value as either 'not collected', 'not

framework wraps other existing validation

services, e.g., the BioSample Validator.

Empty attribute value for attribute

Sample has missing mandatory

A BioSample validation errors:

'biomaterial provider'.

applicable' or 'missing'.

CEDAR API

for the complete list.

GET

Check out CEDAR on Twitter and Facebook.
Go to /metadatacenter.org/community/
engagement