Back to our Example Data

The example data

	A	B	C	D	E
1	t	ax	ay	az	scr
2	0	0.3931848	-0.1593144	-0.4178079	0
3	0.01	0.3957354	-0.15696	-0.4242825	0
4	0.04	0.4138839	-0.1547037	-0.429678	0
5	0.05	0.4415481	-0.1512702	-0.4325229	0
6	0.06	0.4741173	-0.1488177	-0.434583	0
7	0.08	0.5021739	-0.1521531	-0.4285008	0
8	0.1	0.5247369	-0.1669662	-0.420849	0
9	0.11	0.5421987	-0.1813869	-0.4160421	0
10	0.14	0.5506353	-0.1947285	-0.4094694	0
11	0.15	0.5538726	-0.203067	-0.4057416	0
12	0.16	0.5534802	-0.2035575	-0.4056435	0
13	0.17	0.5527935	-0.1961019	-0.4098618	0
14	0.2	0.558189	-0.1908045	-0.4121181	0
15	0.21	0.5764356	-0.1865862	-0.4162383	0
16	0.22	0.589581	-0.18639	-0.4258521	0
17	0.25	0.6049827	-0.1941399	-0.4243806	0
18	0.26	0.619992	-0.206991	-0.4192794	0
19	0.27	0.6320583	-0.2191554	-0.4092732	0
20	0.3	0.6392196	-0.2279844	-0.3975993	0
21	0.31	0.6465771	-0.2317122	-0.3908304	0
22	0.32	0.6583491	-0.2291616	-0.3950487	0
23	0.34	0.6725736	-0.2220984	-0.4050549	0

What we know now about all data objects in the collaboration

Meaning of the variables

	A	B	C	D	E
1	t	ax	ay	az	scr
2	0	0.3931848	-0.1593144	-0.4178079	0
3	0.01	0.3957354	-0.15696	-0.4242825	0
4	0.04	0.4138839	-0.1547037	-0.429678	0
5	0.05	0.4415481	-0.1512702	-0.4325229	0
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7	0.08	0.5021739	-0.1521531	-0.4285008	0
8	0.1	0.5247369	-0.1669662	-0.420849	0
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14	0.2	0.558189	-0.1908045	-0.4121181	0
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21	0.31	0.6465771	-0.2317122	-0.3908304	0
22	0.32	0.6583491	-0.2291616	-0.3950487	0
23	0.34	0.6725736	-0.2220984	-0.4050549	0

What we know now about all data objects in the collaboration

Who recorded the data and when it was recorded

```
"date": "2022-02-28",
"creator": [
    {
      "creatorName": "Bruce Wayne",
      "creatorAffiliation": "Institute for
                            Vigilance and
                            Nightly Motion -
                            Justice League"
    },
    {
      "creatorName": "Selina Kyle",
      "creatorAffiliation": "Institute for
                            Vigilance and
                            Nightly Motion -
                            Justice League"
```

Meaning of the variables

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1	t	ax	ay	az	scr
2	0	0.3931848	-0.1593144	-0.4178079	0
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12	0.16	0.5534802	-0.2035575	-0.4056435	0
13	0.17	0.5527935	-0.1961019	-0.4098618	0
14	0.2	0.558189	-0.1908045	-0.4121181	0
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19	0.27	0.6320583	-0.2191554	-0.4092732	0
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23	0.34	0.6725736	-0.2220984	-0.4050549	0

What we know now about all data objects in the collaboration

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                             Nightly Motion -
                             Justice League"
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      "creatorAffiliation": "Institute for
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                             Nightly Motion -
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Meaning of the variables

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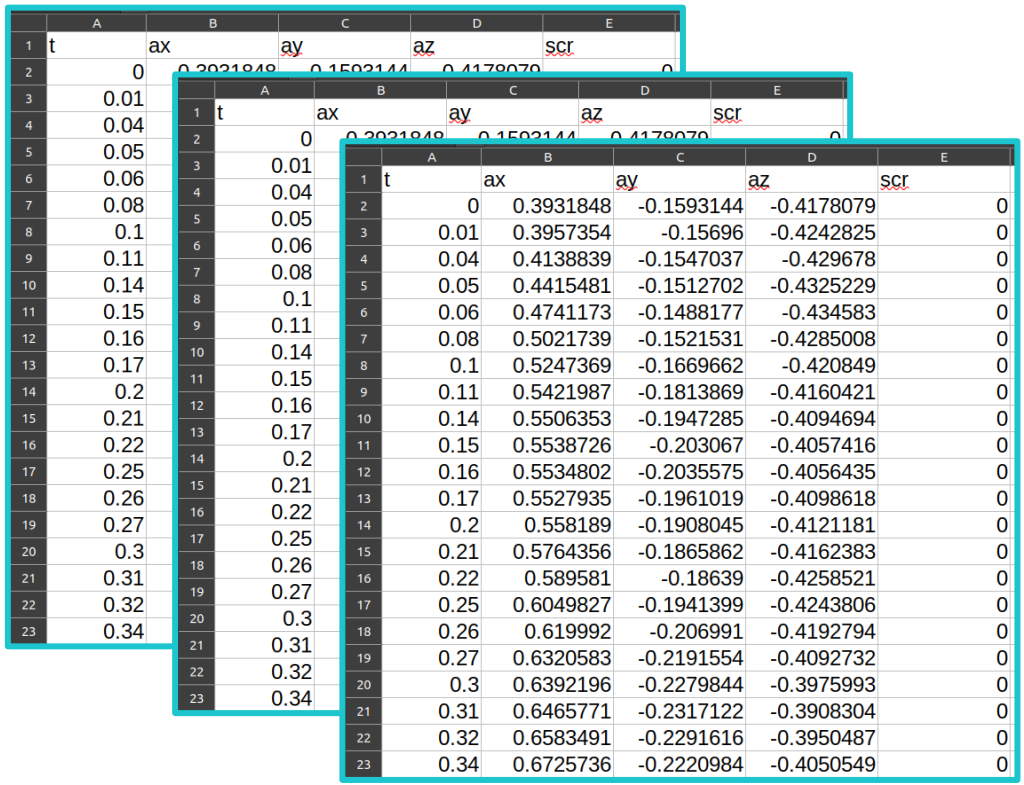
22	0.32	0.6583491	-0.2291616	-0.3950487	0
23	0.34	0.6725736	-0.2220984	-0.4050549	0

How the data was recorded


```
"experimentalParameters": {
    "testRide": {
      "rideName": "Flight of the Bat",
      "location": "Gotham City, New Jersey",
      "rideType": "roller coaster"
    },
    "testPerson": {
      "sex": "male",
      "height": 180
    },
    "recording": {
      "testDevice": "iPhone X",
      "testDeviceFixture": "left upper arm",
      "testApp": "Physics Toolbox Suite by
                  Vieyra Software"
    }
  }
```

Find information



	A	B	C	D	E
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3	0.01	0.3957354	-0.15696	-0.4242825	0
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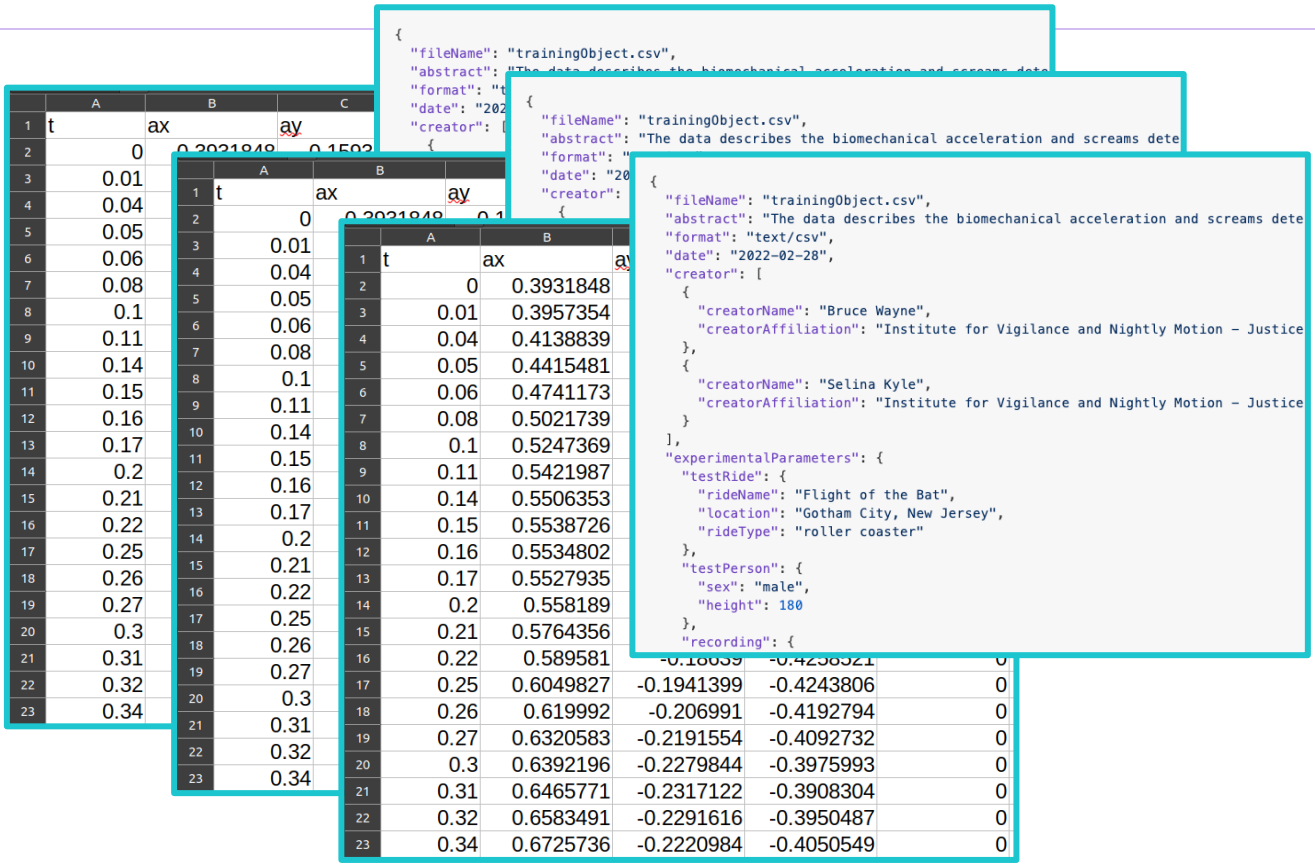
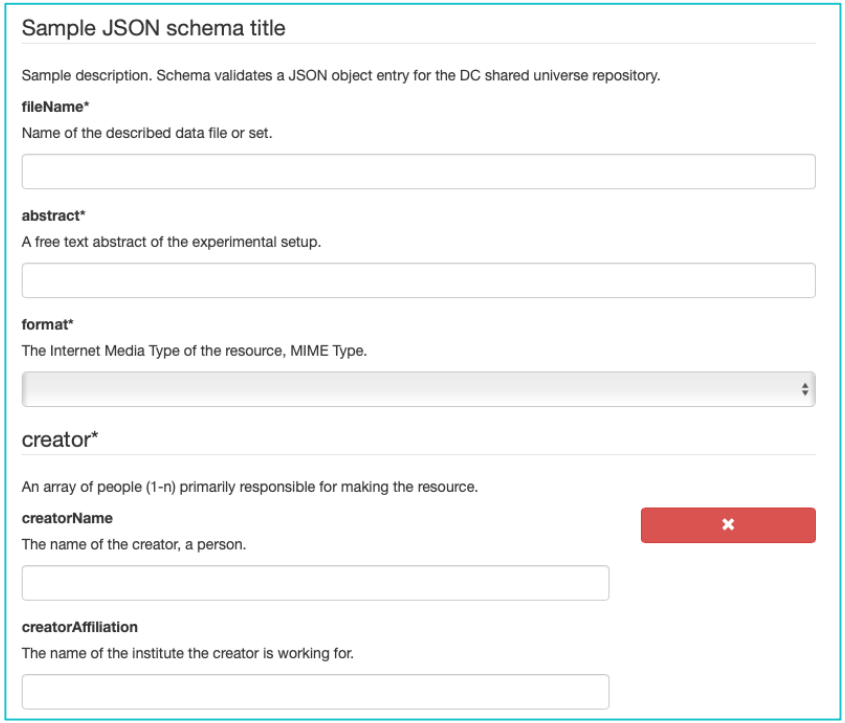
20	0.3	0.6392196	-0.2279844	-0.3975993	0
21	0.31	0.6465771	-0.2317122	-0.3908304	0
22	0.32	0.6583491	-0.2291616	-0.3950487	0
23	0.34	0.6725736	-0.2220984	-0.4050549	0

Find information – Machine readability - Interoperability



Enforcing metadata records with JSON schema

```
{
  "title": "Sample JSON schema title",
  "description": "Sample description. Schema validates a JSON object ent
  "type": "object",
  "required": [
    "fileName",
    "abstract",
    "format",
    "creator",
    "date",
    "experimentalConditions",
    "columns"
  ],
  "properties": {
    "fileName": {
      "description": "Name of the described data file or set.",
      "type": "string",
      "minLength": 1
    },
    "abstract":{
      "description": "A free text abstract of the experimental setup.",
      "type": "string",
      "minLength": 24
    },
    "format": {
      "description": "The Internet Media Type of the resource, MIME Type
      "type": "string",
      "enum": [
        "text/csv",
        "video/mp4",
        "text/markdown",
        "image/png",
        "other"
      ]
```



Sample JSON schema title

Sample description. Schema validates a JSON object entry for the DC shared universe repository.

fileName*

Name of the described data file or set.

abstract*

A free text abstract of the experimental setup.

format*

The Internet Media Type of the resource, MIME Type.

creator*

An array of people (1-n) primarily responsible for making the resource.

creatorName

The name of the creator, a person.

creatorAffiliation

The name of the institute the creator is working for.

Tools to help you enforce your metadata

DirSchema

DirSchema is a directory structure and metadata linter based on JSON Schema

Metador

Metador is a “metadata-aware mailbox” – it helps you to create and share structured metadata alongside your data

But what about other peoples data?

t	ax	ay	az	scr
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0.01	0.3957354	-0.15696	-0.4242825	0
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0.14	0.5506353	-0.1947285	-0.4094694	0
0.15	0.5538726	-0.203067	-0.4057416	0
0.16	0.5534802	-0.2035575	-0.4056435	0
0.17	0.5527935	-0.1961019	-0.4098618	0
0.2	0.558189	-0.1908045	-0.4121181	0
0.21	0.5764356	-0.1865862	-0.4162383	0
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data in your collaboration

But what about other peoples data?

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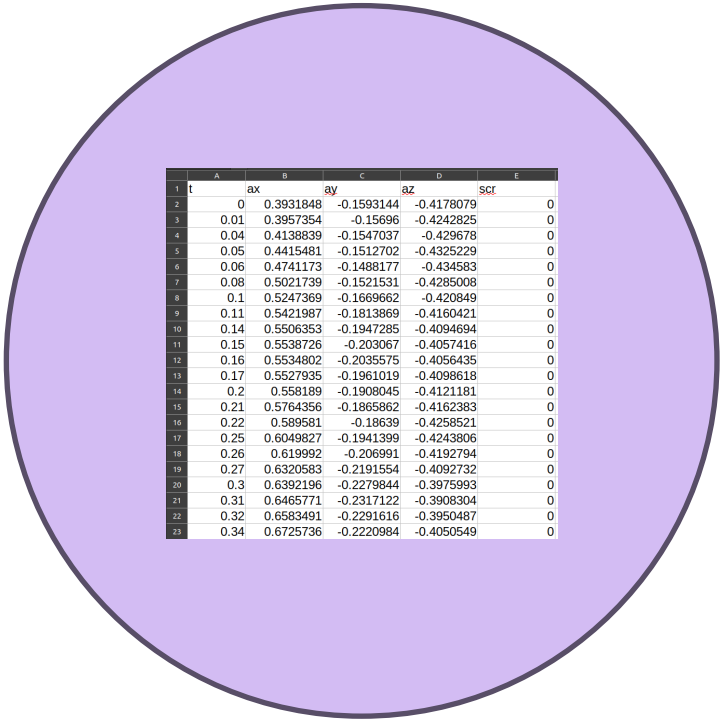
data in your collaboration



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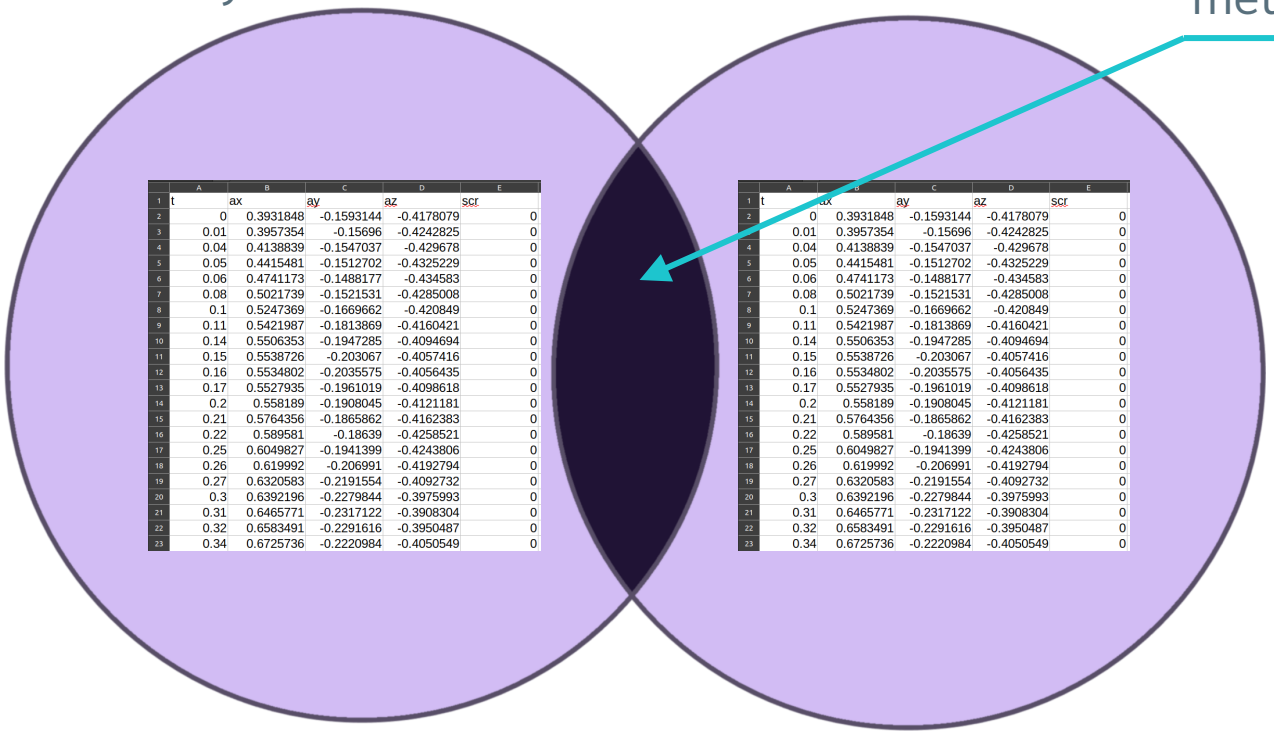
23	0.34	0.6725736	-0.2220984	-0.4050549	0

data from another group

But what about other peoples data?

data in your collaboration

community-wide metadata schema



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17	0.25	0.6049827	-0.1941399	-0.4243806	0
18	0.26	0.619992	-0.206991	-0.4192794	0
19	0.27	0.6320583	-0.2191554	-0.4092732	0
20	0.3	0.6392196	-0.2279844	-0.3975993	0
21	0.31	0.6465771	-0.2317122	-0.3908304	0
22	0.32	0.6583491	-0.2291616	-0.3950487	0
23	0.34	0.6725736	-0.2220984	-0.4050549	0


```
{
  "title": "Sample JSON schema title",
  "description": "Sample description. Schema validates a JSON object ent
  "type": "object",
  "required": [
    "fileName",
    "abstract",
    "format",
    "creator",
    "date",
    "experimentalConditions",
    "columns"
  ],
  "properties": {
    "fileName": {
      "description": "Name of the described data file or set.",
      "type": "string",
      "minLength": 1
    },
    "abstract":{
      "description": "A free text abstract of the experimental setup.",
      "type": "string",
      "minLength": 24
    },
    "format": {
      "description": "The Internet Media Type of the resource, MIME Type
      "type": "string",
      "enum": [
        "text/csv",
        "video/mp4",
        "text/markdown",
        "image/png",
        "other"
      ]
```

data from another group