

EntitySchemas

Data Modelling Days 2023

What are EntitySchemas even?

EntitySchemas allow
us to encode and
test data modeling
decisions in a
machine-readable
way

- Encodes a standardised structure for a subject area of Wikidata's data
- Different standards for the syntax exist (ShEx, SHACL) - we work with ShEx

```

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX wd: <http://www.wikidata.org/entity/>
PREFIX wdt: <http://www.wikidata.org/prop/direct/>

start = @<human>

<human> EXTRA wdt:P31 {
  wdt:P31 [wd:Q5];
  wdt:P18 . * ; # image (portrait)
  wdt:P21 [wd:Q48270 wd:Q48279 wd:Q179294 wd:Q189125 wd:Q207959 wd:Q301702 wd:Q350374
wd:Q505371 wd:Q660882 wd:Q746411 wd:Q859614 wd:Q1052281 wd:Q1097630 wd:Q1289754 wd:Q1399232
wd:Q2449503 wd:Q3177577 wd:Q3277905 wd:Q6581072 wd:Q6581097 wd:Q7130936 wd:Q12964198
wd:Q15145778 wd:Q15145779 wd:Q18116794 wd:Q27679684 wd:Q27679766 wd:Q52261234 wd:Q93954933
wd:Q93955709 wd:Q96000630 wd:Q99485724 wd:Q99485785]?; # gender
  wdt:P19 . ?; # place of birth
  wdt:P20 . ?; # place of death
  wdt:P569 . ? ; # date of birth
  wdt:P570 . ? ; # date of death
  wdt:P735 . * ; # given name
  wdt:P734 . * ; # family name
  wdt:P106 . * ; # occupation
  wdt:P1559 . ? ; #name in native language
  wdt:P27 @<country> *; # country of citizenship
  wdt:P22 @<human> *; # father
  wdt:P25 @<human> *; # mother
  wdt:P3373 @<human> *; # sibling
  wdt:P26 @<human> *; # spouse
  wdt:P40 @<human> *; # children
  wdt:P1038 @<human> *; # relatives
  wdt:P103 @<language> *; # native language
  wdt:P1412 @<language> *; # languages spoken, written or signed
  wdt:P6886 @<language> *; # writing language
  rdfs:label rdf:langString+;
}

<country> EXTRA wdt:P31 {
  wdt:P31 [wd:Q6256 wd:Q3024240 wd:Q3624078] +;
}

<language> EXTRA wdt:P31 {
  wdt:P31 [wd:Q34770 wd:Q1288568] +;
}

```

Contents [hide]

- 1 architectural structure
- 2 arts
- 3 biology
- 4 chemistry
- 5 computing
- 6 education
- 7 Empty schema
- 8 geographic entity
- 9 government
- 10 heritage
- 11 human
- 12 lexeme
- 13 mathematics
- 14 media
- 15 miscellaneous
- 16 molecular biology
- 17 profession
- 18 science
- 19 sport
- 20 Wikibase
- 21 Dependency trees

geographic entity [edit | edit source]

label ↕	description ↕	aliases ↕	class/Property ↕	dependencies ↕
administrative district in Turkey (E133)	schema for administrative district in Turkey		district of Turkey (Q1147395)	
Australian national parks (E30)	basic schema for national parks in Australia		national park of Australia (Q18618819), country (P17)=Australia (Q408)	
ceremonial county of England (E71)	basic schema for a ceremonial county in England		ceremonial county of England (Q180673)	
Chilean Cities (E172)	Schema to validate Chilean Cities		Chile (Q298), city (Q515)	
Chilean Volcanoes (E171)	Chilean Volcanoes		Chile (Q298), volcano (Q8072)	
city (E100)	schema of a city		city (Q515)	Imported by: Research institute (E337)
European Bathing waters (E319)	Bathing waters in Europe identified with Eionet bathingWaterIdentifier		Eionet bathingWaterIdentifier (P9616)	
health in region (E88)	basic scheme for health by region/country items		health by country or region (Q64027457)	
Lunar crater (E106)	schema for lunar craters	moon crater	lunar crater (Q1348589)	
metropolitan statistical area (E140)	schema for metropolitan statistical areas		Metropolitan Statistical Area (Q1768043)	
mountain/hill (E339)	General schema for mountains/hills, useful as a base for more specific schema		mountain (Q8502), hill (Q54050)	
municipio of Rome (E104)	schema for validating current municipi of Rome [draft]		municipio of Rome (Q525504)	
NationalFlag (E50)			national flag (Q186516)	
Nazca lines (E148)	schema for geoglyphs that make up the Nazca lines		geoglyph (Q45791), part of (P361)=Nazca Lines (Q2620036)	
sovereign state (E32)	basic schema for sovereign states		sovereign state (Q3624078)	Imported by: Research institute (E337)
Swedish beach (E305)	with P9616 number i.e. more official beach		bathing water (Q567998), country (P17)=Sweden (Q34)	
Swedish dogbeach (E304)	beskriver ett hundbad		dog beach (Q35101126), country (P17)=Sweden (Q34)	
townland (E295)	schema to describe a townland (small geographic division of Ireland)		townland (Q2151232)	
trail (E114)	schema for trails	hiking trail	trail (Q628179)	
volcano (E80)	General schema for volcanos on Wikidata	vulcano	volcano (Q8072)	

But why?!

We need EntitySchemas because...

- **Data quality:** They are an important tool for our editors to rein in the data chaos.
- **Data utility:** Consistently modelled data is easier to reuse.
- **Decision making support:** Galvanising modeling decisions around a shared artifact makes it easier to make and stick to modeling decisions.
- **Tool ecosystem:** Machine-readable encoding of Wikidata's modeling decisions makes it possible to build better tools, e.g. a form for adding new Items that automatically checks if the input is good.
- **Subsetting:** Some groups are using EntitySchemas to define which Items should be in a particular subset they are interested in.

How does it work?

- EntitySchemas are encoded in pages in Wikidata
- They have:
 - ID prefixed by the letter E:
 - Terms (label, description, aliases) in various languages
 - A section for the definition
 - Version history, discussion page, etc.

EntitySchema Discussion Read View history More Search Wikidata

human (E10)

language code	label	description	aliases	edit
en	human	simple schema for humans	person human being	/edit
ca	humà	schema per a éssers humans	persona ésser humà	/edit
cs	osoba	jednoduché schéma pro člověka	člověk osoba	/edit
da	menneske		person	/edit
de	Mensch	einfaches Objektschema des Menschen	Person	/edit
el	ἄνθρωπος			/edit
en-gb	human	simple schema for humans	person human being	/edit
eo	homo	simpla skemo por homoj	persono	/edit
es	ser humano	esquema simple para una persona	persona	/edit
et	ihimene	lihtne skeem inimese jaoks		/edit
fi	ihminen	yksinkertainen skeema kohteelle ihminen	henkilö	/edit
fr	humain	schéma simple pour un être humain	personne	/edit
fy	mienske		persoan	/edit
gl	ser humano	esquema simple para definir unha persoa	persoa	/edit
hu	ember		személy	/edit
it	umano	schema per descrivere un essere umano	persona individuo essere umano	/edit
ja	ヒト	ヒト	人間	/edit
ko	인간	인간을 설명하는 간단한 스키마	인간 사람	/edit
lv	cilvēks		persona	/edit
ms	manusia	skema penerangan manusia	orang insan	/edit
nb	menneske	enkel skema for mennesker	person	/edit
nl	mens	simpel schema voor mensen	persoon	/edit
pt	humano	esquema simples para humanos		/edit
pt-br	humano	esquema para descrever seres humanos		/edit
ro	om		persoană ființă umană	/edit
ru	человек	простая схема для людей	человек персонаж	/edit
sk	osoba	schéma pre dátové poležky ľudí	človek	/edit
sq	njeri	skema e thjeshtë për njerëzit	personi qenie njerëzore	/edit
sr	čovjek	prosta shema za osobe	čovjek	/edit
sv	människa	ett enklare schema för människor		/edit
tr	insan	insanlar için basit şema	kişi	/edit
vec	èssare uman		omo uman persona personajo	/edit

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
 PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
 PREFIX wd: <http://www.wikidata.org/entity/>
 PREFIX wdt: <http://www.wikidata.org/prop/direct/>

STATE @<human>

```

<human> EXTRA wdt:P31 (
  wdt:P31 [wd:Q5];
  wdt:P18 . ; # image (optional)
  wdt:P21 [wd:Q48279 wd:Q48279 wd:Q379294 wd:Q189125 wd:Q207959 wd:Q381782 wd:Q358374 wd:Q585371 wd:Q668882 wd:Q746411 wd:Q859614 wd:Q1852281 wd:Q1897630 wd:Q1289754 wd:Q1399232 wd:Q2449583 wd:Q3177577 wd:Q3277985 wd:Q6581872 wd:Q6581897 wd:Q1738936 wd:Q12964198 wd:Q15145774 wd:Q15145774 wd:Q18116794 wd:Q2767964 wd:Q2767964 wd:Q5226124 wd:Q93545433 wd:Q93955789 wd:Q96086038 wd:Q99485724 wd:Q99485785]; # gender
  wdt:P19 . ?; # place of birth
  wdt:P20 . ?; # place of death
  wdt:P569 . ?; # date of birth
  wdt:P570 . ?; # date of death
  wdt:P735 . +; # given name
  wdt:P734 . +; # family name
  wdt:P186 . +; # occupation
  wdt:P1559 . ?; # name in native language
  wdt:P27 @<country>; # country of citizenship
  wdt:P22 @<human>; # father
  wdt:P25 @<human>; # mother
  wdt:P3373 @<human>; # sibling
  wdt:P26 @<human>; # spouse
  wdt:P48 @<human>; # children
  wdt:P1838 @<human>; # relatives
  wdt:P1083 @<language>; # native language
  wdt:P1412 @<language>; # languages spoken, written or signed
  wdt:P6886 @<language>; # writing language
  rdfs:label . wdt:langString;
)

<country> EXTRA wdt:P31 (
  wdt:P31 [wd:Q6256 wd:Q3824248 wd:Q3624078] +;
)

<language> EXTRA wdt:P31 (
  wdt:P31 [wd:Q4478 wd:Q1288568] +;
)

```

check entities against this schema @ /edit

human (E10)

language code	label	description	aliases	edit
en	human	simple schema for humans	person human being	edit
ca	humà	schema per a éssers humans	persona ésser humà	edit
cs	osoba	jednoduché schéma pro člověka	člověk osoba	edit
da	menneske		person	edit
de	Mensch	einfaches Objektschema des Menschen	Person	edit
el	άνθρωπος			edit
en-gb	human	simple schema for humans	person human being	edit
eo	homo	simpla skemo por homoj	persono	edit
es	ser humano	esquema simple para una persona	persona	edit
et	inimene	lihtne skeem inimese jaoks		edit
fi	ihminen	yksinkertainen skeema kohteelle ihminen	henkilö	edit
fr	humain	schéma simple pour un être humain	personne	edit
fy	minske		persoan	edit
gl	ser humano	esquema simple para definir unha persoa	persoa	edit
hu	ember		személy	edit
it	umano	schema per descrivere un essere umano	persona individuo essere umano	edit
ja	ヒト	ヒト記述用のスキーマ	人間	edit
ko	ⓘ Ⓘ	Ⓜ Ⓝ Ⓞ Ⓟ Ⓠ Ⓡ Ⓢ Ⓣ Ⓤ Ⓥ Ⓦ Ⓧ Ⓨ Ⓩ	Ⓜ Ⓝ Ⓜ Ⓝ	edit
lv	cilvēks		persona	edit
ms	manusia	skema penerangan manusia	orang insan	edit
nb	menneske	enkelt skjema for mennesker	person	edit
nl	mens	simpel schema voor mensen	persoon	edit
pt	humano	esquema simples para humanos		edit
pt-br	humano	esquema para descrever seres humanos		edit
ro	om		persoană ființă umană	edit
ru	человек	простая схема для людей	персона персоналия	edit

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX wd: <http://www.wikidata.org/entity/>
PREFIX wdt: <http://www.wikidata.org/prop/direct/>
```

```
start = @<human>
```

```
<human> EXTRA wdt:P31 {
  wdt:P31 [wd:Q5];
  wdt:P18 . * ; # image (portrait)
  wdt:P21 [wd:Q48270 wd:Q48279 wd:Q179294 wd:Q189125 wd:Q207959 wd:Q301702 wd:Q350374 wd:Q505371 wd:Q660882 wd:Q746411 wd:Q859614 wd:Q1052281 wd:Q1097630
wd:Q1289754 wd:Q1399232 wd:Q2449503 wd:Q3177577 wd:Q3277905 wd:Q6581072 wd:Q6581097 wd:Q7130936 wd:Q12964198 wd:Q15145778 wd:Q15145779 wd:Q18116794
wd:Q27679684 wd:Q27679766 wd:Q52261234 wd:Q93954933 wd:Q93955709 wd:Q96000630 wd:Q99485724 wd:Q99485785]?; # gender
  wdt:P19 . ? ; # place of birth
  wdt:P20 . ? ; # place of death
  wdt:P569 . ? ; # date of birth
  wdt:P570 . ? ; # date of death
  wdt:P735 . * ; # given name
  wdt:P734 . * ; # family name
  wdt:P106 . * ; # occupation
  wdt:P1559 . ? ; #name in native language
  wdt:P27 @<country> *; # country of citizenship
  wdt:P22 @<human> *; # father
  wdt:P25 @<human> *; # mother
  wdt:P3373 @<human> *; # sibling
  wdt:P26 @<human> *; # spouse
  wdt:P40 @<human> *; # children
  wdt:P1038 @<human> *; # relatives
  wdt:P103 @<language> *; # native language
  wdt:P1412 @<language> *; # languages spoken, written or signed
  wdt:P6886 @<language> *; # writing language
  rdfs:label rdf:langString+;
}

<country> EXTRA wdt:P31 {
  wdt:P31 [wd:Q6256 wd:Q3024240 wd:Q3624078] +;
}

<language> EXTRA wdt:P31 {
  wdt:P31 [wd:Q34770 wd:Q1288568] +;
}
```

check entities against this Schema [edit](#)

```
<human> EXTRA wdt:P31 {  
  wdt:P31 [wd:Q5];  
  wdt:P18 . * ;           # image (portrait)  
  wdt:P21 [wd:Q48270 wd:Q48279 wd:Q179294 wd:Q189125  
wd:Q207959 wd:Q301702 wd:Q350374 wd:Q505371 wd:Q660882  
wd:Q746411 wd:Q859614 wd:Q1052281 wd:Q1097630 wd:Q1289754  
wd:Q1399232 wd:Q2449503 wd:Q3177577 wd:Q3277905 wd:Q6581072  
wd:Q6581097 wd:Q7130936 wd:Q12964198 wd:Q15145778  
wd:Q15145779 wd:Q18116794 wd:Q27679684 wd:Q27679766  
wd:Q52261234 wd:Q93954933 wd:Q93955709 wd:Q96000630  
wd:Q25388691 wd:Q56315990]?; # gender
```

```
wdt:P19 . ?;           # place of birth
wdt:P20 . ?;           # place of death
wdt:P569 . ? ;        # date of birth
wdt:P570 . ? ;        # date of death
wdt:P735 . * ;        # given name
wdt:P734 . * ;        # family name
wdt:P106 . * ;        # occupation
```

What's building on this?

ShEx Simple



kakapo schema (E61)

language code	label	description	aliases	edit
en	kakapo schema	schema for kakapo individuals on wikidata		edit
ja	フラウオウム	フラウオウムを記述するためのスキーマ		edit

```
PREFIX wd: <http://www.wikidata.org/entity/>
PREFIX p: <http://www.wikidata.org/prop/>
PREFIX ps: <http://www.wikidata.org/prop/statement/>
PREFIX pq: <http://www.wikidata.org/prop/qualifier/>
PREFIX pr: <http://www.wikidata.org/prop/reference/>
PREFIX prov: <http://www.w3.org/ns/prov#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX eco: <http://purl.obolibrary.org/obo/ECO_>
PREFIX psv: <http://www.wikidata.org/prop/statement/value/>

## SELECT * WHERE {?celline wdt:P31 wd:Q179959 .}
start = @<#KakapoSchema>

<#KakapoSchema> {
  #instance of
  p:P31 { ps:P31 IRI * };

  #sex or gender
  p:P21 { ps:P21 [
    wd:Q44148 #male organism
    wd:Q43445 #female organism
  ] };

  #image
  p:P18 { ps:P18 IRI * } ?;

  #place of birth
  p:P19 { ps:P19 IRI * } ?;

  #named after
  p:P138 { ps:P138 IRI * } ?;

  #date of birth
  p:P569 { psv:P569 IRI *; ps:P569 xsd:dateTime * } ?;

  #Commons category
  p:P373 { ps:P373 xsd:string * } ?;

  #child
  p:P40 { ps:P40 IRI * } ?;

  #father
  p:P22 { ps:P22 IRI * } ?;

  #Twitter username
  p:P2002 { ps:P2002 xsd:string * } ?;

  #date of death
  p:P570 { ps:P570 xsd:dateTime *; psv:P570 IRI * } ?;

}
```

[check entities against this Schema](#) | [edit](#)



ShEx Simple

ShEx2 — Simple Online Validator

```
PREFIX wd: <http://www.wikidata.org/entity/>
PREFIX p: <http://www.wikidata.org/prop/>
PREFIX ps: <http://www.wikidata.org/prop/statement/>
PREFIX pq: <http://www.wikidata.org/prop/qualifier/>
PREFIX pr: <http://www.wikidata.org/prop/reference/>
PREFIX prov: <http://www.w3.org/ns/prov#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX eco: <http://purl.obolibrary.org/obo/ECO_>
PREFIX psv: <http://www.wikidata.org/prop/statement/value/>
```

```
## SELECT * WHERE {?cellline wdt:P31 wd:Q179959 .}
start = @<#kakapoSchema>
```

```
<#kakapoSchema> {
  #instance of
  p:P31 { ps:P31 IRI * };

  #sex or gender
  p:P21 { ps:P21 [
    wd:Q44148 #male organism
    wd:Q43445 #female organism
  ] };

  #image
  p:P18 { ps:P18 IRI * } ?;
```

run query to fetch entities (ctl-enter)

Query Entities to check

```
SELECT ?id WHERE {
  # ...
}
```



ShEx Simple

ShEx2 — Simple Online Validator

```
PREFIX wd: <http://www.wikidata.org/entity/>
PREFIX p: <http://www.wikidata.org/prop/>
PREFIX ps: <http://www.wikidata.org/prop/statement/>
PREFIX pq: <http://www.wikidata.org/prop/qualifier/>
PREFIX pr: <http://www.wikidata.org/prop/reference/>
PREFIX prov: <http://www.w3.org/ns/prov#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX eco: <http://purl.obolibrary.org/obo/ECO_>
PREFIX psv: <http://www.wikidata.org/prop/statement/value/>

## SELECT * WHERE (?cellline wdt:P31 wd:Q179959 .)
start = @<#kakapoSchema>

<#kakapoSchema> {
  #instance of
  p:P31 { ps:P31 IRI * };

  #sex or gender
  p:P21 { ps:P21 [
    wd:Q44148 #male organism
    wd:Q43445 #female organism
  ] };

  #image
  p:P18 { ps:P18 IRI * } ?;
```

validate (ctrl-enter)

```
Query Entities to check
?statement0 (ps:P10241/(wdt:P279*) wd:Q179959.
}
}
}
```

- ✓wd:Q7530532@START
- ✓wd:Q63254018@START
- ✓wd:Q63254090@START
- ✓wd:Q107694640@START
- ✓wd:Q107695339@START
- ✓wd:Q107708464@START
- ✓wd:Q107708488@START

User script

By Teester

Denny Vrandečić (Q18618629)...

ORES predicted quality: A (4.74)

Croatian computer scientist; former co-developer of Semantic MediaWiki and Wikidata; currently the lead developer of the Wikifunct [edit](#) project, and an employee of the Wikimedia Foundation as a Head of Special Projects, Structured Content

Denny Vrandecic | Zdenko Vrandecic | Zdenko Vrandečić

Automatically check schema

[In more languages](#)

Statements

instance of

 human ...

[edit](#)

[1 reference](#)

[+ add value](#)



User script

By Teester

Denny Vrandečić (Q18618629)...

ORES predicted quality: A (4.74)

Croatian computer scientist; former co-developer of Semantic MediaWiki and Wikidata; currently the lead developer of the Wikifunctions project, and an employee of the Wikimedia Foundation as a Head of Special Projects, Structured Content

Denny Vrandecic | Zdenko Vrandecic

E10 Automatically check schema

Checking against E10:human:

Required properties

correct P31 - instance of

Optional properties

present P103 - native language

missing P1038 - relative

present P106 - occupation

correct P1412 - languages spoken, written or signed

missing P1559 - name in native language

present P18 - image

present P19 - place of birth

Other properties

Not in schema P101 - field of work

Not in schema P1015 - NORAF ID

Not in schema P1026 - academic thesis

Not in schema P108 - employer

Not in schema P1477 - birth name

Not in schema P1581 - official blog

Not in schema P184 - doctoral advisor

Not in schema P1960 - GND: Scholar author ID

[In more languages](#)

Statements

instance of

E10: correct

human ...

[edit](#)

correct

[1 reference](#)

[+ add value](#)

image

E10: present



Dr. Denny Vrandečić-2.jpg

5,425 × 3,617; 5.12 MB

[0 references](#)

[edit](#)

allowed

[+ add reference](#)

[+ add value](#)

sex or gender

E10: correct

male ...

[edit](#)

correct

[2 references](#)

[+ add value](#)

ca Denny Vrandečić

de Denny Vrandečić

en Denny Vrandečić

fr Denny Vrandečić

hr Zdenko Denny Vrandečić

no Denny Vrandečić

ru Врандечич, Денни

sh Zdenko Denny Vrandečić

Wikipedia (9 entries) [edit](#)

Wikibooks (0 entries) [edit](#)

Wikinews (1 entry) [edit](#)

ru Категория:Денни Врандечич

Wikiquote (0 entries) [edit](#)

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Wikiversity (0 entries) [edit](#)

Wikivoyage (0 entries) [edit](#)


Wiktionary (0 entries) [edit](#)

Multilingual sites (1 entry) [edit](#)

commons Category:Denny Vrandečić

Cradle

By magnusmanske

Cradle English  Git [Help](#)

EXPERIMENTAL!!!

human

simple schema for humans

Labels *	<input type="text" value="Language Text"/>	<input type="button" value="+"/>
Aliases	<input type="text" value="Language Text"/>	<input type="button" value="+"/>
Descriptions	<input type="text" value="Language Text"/>	<input type="button" value="+"/>
instance of	<input type="text" value=""/> <input type="button" value="🔍"/> <input type="button" value="⌵"/>	<input type="button" value="+"/>
image	<input type="text" value="commonsMedia"/>	<input type="button" value="+"/>
sex or gender	<input type="text" value=""/> <input type="button" value="🔍"/> <input type="button" value="⌵"/>	<input type="button" value="+"/>
place of birth	<input type="text" value=""/> <input type="button" value="🔍"/>	<input type="button" value="+"/>
place of death	<input type="text" value=""/> <input type="button" value="🔍"/>	<input type="button" value="+"/>
date of birth	<input type="text" value="time"/>	<input type="button" value="+"/>
date of death	<input type="text" value="time"/>	<input type="button" value="+"/>
given name	<input type="text" value=""/> <input type="button" value="🔍"/>	<input type="button" value="+"/>
family name	<input type="text" value=""/> <input type="button" value="🔍"/>	<input type="button" value="+"/>
occupation	<input type="text" value=""/> <input type="button" value="🔍"/>	<input type="button" value="+"/>

How do EntitySchemas relate to
Property Constraints?

EntitySchemas:

- Centered around classes
 - E.g. “Monuments should always be modelled this way.”
- Fairly powerful
- Following a semantic web standard

And they are currently...

- Not well integrated in Wikidata’s processes, tools and UI
- Comparatively hard to use and understand

Property Constraints:

- Centered around Properties
 - E.g. “Date of birth should always be used this way.”
- Limited in their expressivity
- Home-grown solution specific to Wikibase
- Very well integrated in Wikidata’s processes, tools and UI
- Comparatively easy to use and understand by now

We need both of them!

What is EntitySchema v2?

v2 is a step to bring more visibility to EntitySchemas

- EntitySchemas available in statements connecting them to classes of Items
- Increasing queryability in Query Service
- EntitySchemas will be legible for all users
 - Always displayed with their label i.e. Human (E10)
 - Translations / language fallbacks
- Alignment of EntitySchemas and Item UI e.g. termbox

Why are we doing this?

Expected impact

- More consistently modelled data
- More centralised discussions about modelling of particular classes
- Contributions made through editing tools are more in line with the modelling for the class in questions

Helpful links

- [human \(E10\) - Wikidata](#)
- [Wikidata:Schemas](#)
- [Wikidata:WikiProject Schemas](#)
- [Wikidata:Database reports/EntitySchema directory](#)
- [Wikidata:Schema proposals](#)
- [Shape Expressions \(ShEx\) 2.1 Primer](#)
- [CRADLE](#)
- [User:Teester/EntityShape.js](#)