

## Example 1

The following is an example with information related to a tornado in RDF followed by a schema (set of shapes) in ShEx to validate events of that type.

Tornado.ttl

```
prefix: <http://example.org/>
prefix xsd: <http://www.w3.org/2001/XMLSchema#>

:tornado1 a :Event ;
    :scale :EF4 ;
    :lengthInMiles 18.17 ;
    :widthInYards 1050 ;
    :state :Ohio ;
    :country :Montgomery ;
    :source :NWSStormSurvey ;
    :beginDate "2019-05-27T21:41:00"^^xsd:dateTime ;
    :endDate "2019-05-27T22:13:00"^^xsd:dateTime .
```

Evento.shex

```
prefix : <http://example.org/>
prefix xsd: <http://www.w3.org/2001/XMLSchema#>

<Event> {
    :scale @<FujitaScale> ;
    :lengthInMiles xsd:decimal ;
    :widthInYards xsd:integer ;
    :state @<State> ;
    :country @<County> ;
    :source @<Source> ;
    :beginDate xsd:dateTime ;
    :endDate xsd:dateTime
}

<FujitaScale> {}
<State> {}
<County> {}
<Source> {}
```

## Example 2

Below is an example of EntitySchema ( Wikidata's name for schemas ) for validating humans.

### Reminder:

Wikidata is a knowledge source that stores mainly entities and properties. Entities are elements such as: people, countries, places, etc. Properties establish relationships between entities or between entities and other values such as simple types (e.g. age, child of, date of birth, etc.). Entities have a unique identifier which is given by the letter Q followed by a number (e.g. Q76 would represent "Obama"). Properties are also represented by a unique identifier which is the letter P followed by a number (e.g. P21 would represent "sex or gender"). The prefix wdt: is used for properties and the prefix wd: for entities.

```
PREFIX wd:    <http://www.wikidata.org/entity/>
```

```
PREFIX wdt:   <http://www.wikidata.org/prop/direct/>
```

```
<human> {  
  wdt:P31      [ wd:Q5 ] ;      # instance of - human  
  wdt:P18      . * ;          # image  
  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 of citizenship  
  wdt:P22      . * ;          # father  
  wdt:P25      . * ;          # mother  
  wdt:P3373    . * ;          # sibling  
  wdt:P26      . * ;          # spouse  
  wdt:P40      . * ;          # children  
  wdt:P1038    . * ;          # relatives  
  wdt:P103     . * ;          # native language  
  wdt:P1412    . * ;          # languages spoken, written or signed  
  wdt:P6886    . *           # writing language  
}
```