

# **Tourist Events**

Knowledge and Data Integration Project

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# Objective

## Project goal and expectation

- aims to build custom vocabulary terminologies for unambiguously representing **event entities** prevalent in various datasets at our disposal and incorporate existing entity types, object and data properties in order to minimize redefinition of the same concepts.
- Eventually, our ideal application is expected to respond with a set of chronological events suited to the taste of the user being concerned, and help to **facilitate transportation management** between geographical points as a secondary infrastructural service.

## Project scope

The scope of the project is spatially restricted to Comune of Trento and temporally the datasets from early the year to the end of the year.

# Data Extraction [1]

**What's Included**

- ✓ Rafting Pictures Included.
- ✓ All taxes, fees and handling charges
- ✓ Driver/guide
- ✓ Round-trip shared transfer.
- ✗ Lunch

**Departure & Return**

**What To Expect**

**Additional**

**Cancellation Policy**

**Frequently Asked Questions**

**Reviews**



5.0 ★★★★★  
64 reviews

Total review count and overall rating based on Visitor and Tripadvisor reviews

5 stars  
4 stars  
3 stars  
2 stars  
1 star

**River Rafting for Families**

★★★★★ 64 reviews · Dimaro, Italy

**from C\$7.00**  
Lowest Price Guarantee  
Select Date and Travellers

Tuesday, 16 Jun 2020

Number of Travellers

**Check Availability**

Reserve Now & Pay Later  
Secure your spot while staying flexible  
Free Cancellation  
Up to 24 hours in advance

**Tenno Tours**

Tenno Tours  
Art & Culture  
Classes & Workshops  
Food & Drink  
Outdoor Activities  
Active & Outdoor Classes  
Extreme  
4WD Tours  
White Water Rafting

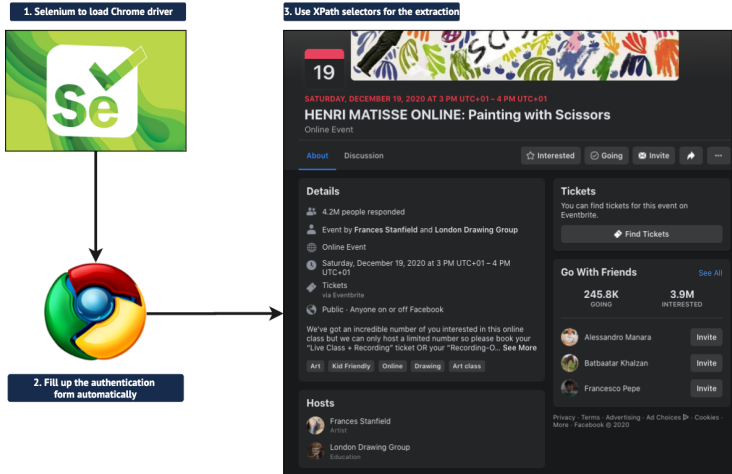
**Overview**

Take a river-rafting trip down the Noce River, one of the top rivers in Europe for rafting. On this adventure from Dimaro Folgore you'll travel the "Idolico" route from Monfalcone to Cavazzano, which is ideal for families. In rafts that hold six people, a guide provides guiding instructions for navigating the rapids.

- Transport provided from the rafting center in Dimaro Folgore
- Pictures included so you can remember your Italian rafting tour on the Noce River
- Spray jacket and other gear is provided
- Helmet and life jackets provided for your safety

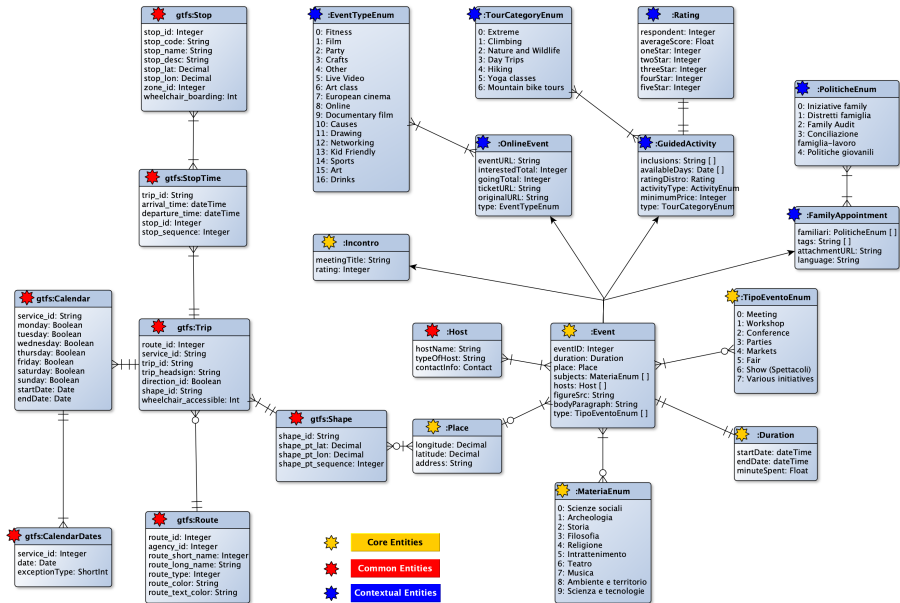
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# Data Extraction [2]



- Instead of using scrapy, here selenium's custom selectors are utilized. Since locating exact element containing a particular data was hard, it had a few anomalies.

# Informal Modeling

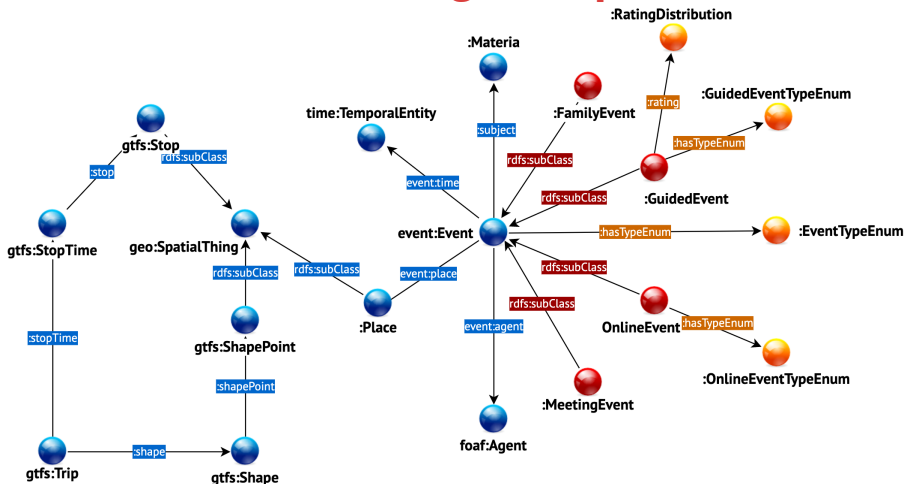


# Pre-existing Representations

- 1 schema:** for 'TheaterEvent' to be meaningful in the application scenario, it has to contain 'producers', 'cast', 'stage designer' etc. Ideosyncrasies in available data records diverge from each other too much (NLP or Named Entity Recognition in Italian).
- 2 event:** customizability offered while keeping a simple profile made up of foaf, time and geo ontologies.

<b>schema:Event (schema)</b> 888,796 occurrences in 3 LOD datasets <a href="http://schema.org/Event">http://schema.org/Event</a>	0.506
<b>rdfs:comment</b> An event happening at a certain time and location,> property. Repeated events may be structured as separate Event objects. <b>rdfs:label</b> Event <b>localName</b> Event	
<b>npg:Event (npg)</b> site (see in LOD) <a href="http://ins.nature.com/terms/Event">http://ins.nature.com/terms/Event</a>	0.499
<b>skos:definition</b> The :Event class groups together events of @en <b>skos:prefLabel</b> Event @en <b>localName</b> Event	
<b>nsi:Event (nsi)</b> site (see in LOD) <a href="http://purl.org/ontology/storyline/Event">http://purl.org/ontology/storyline/Event</a>	0.488
<b>rdfs:comment</b> A newsworthy event. An un-disputable real world event. @en-gb <b>rdfs:label</b> Event @en-gb <b>localName</b> Event	
<b>bbccore:Event (bbccore)</b> site (see in LOD) <a href="http://www.bbc.co.uk/ontologies/tvcoreconcepts/Event">http://www.bbc.co.uk/ontologies/tvcoreconcepts/Event</a>	0.488
<b>rdfs:label</b> Event @en-gb <b>localName</b> Event	
<b>dce:date (dce)</b> 1,015,158 occurrences in 34 LOD datasets <a href="http://purl.org/dce/elements/1.1/date">http://purl.org/dce/elements/1.1/date</a>	0.438
<b>rdfs:comment</b> event in the lifecycle of the resource. @en	
<b>event:Event (event)</b> 6,160 occurrences in 4 LOD datasets <a href="http://purl.org/NET/4dm/event.owl#Event">http://purl.org/NET/4dm/event.owl#Event</a>	0.425
<b>vocabulary:dcterms:title</b> The Event Ontology @en <b>rdfs:comment</b> region, by a cognitive agent. An event may have <b>vocabulary:prefix</b> event <b>rdfs:label</b> Event <b>localName</b> Event	

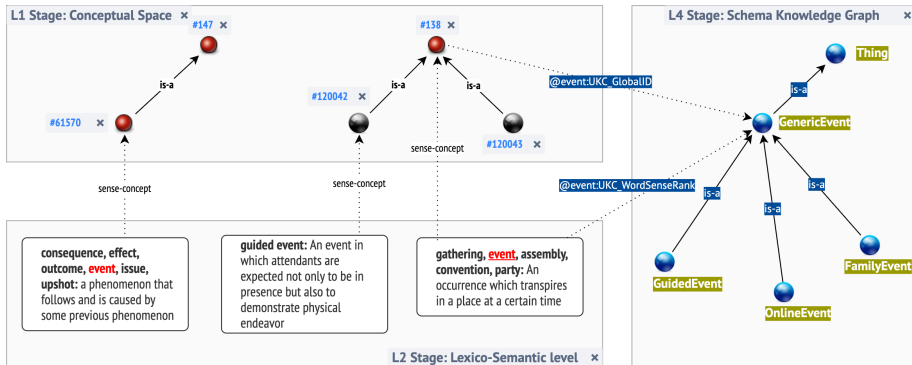
# L4 Schema Knowledge Graph



- Although GTFS ontology provides a comprehensive set of transportation etype specifications, the flexibility with object and data properties are given to the developer.



# Annotations



## Example

**Online Event** (Word Form: *Remote Event*) GID: 120042: A special type of event with the participants prompted to engage in remotely

**Online Event Type** (Word Form: *Remote Event Category*) GID: 120045: Enumerated types for the online events, including such as painting, sightseeing and visiting museums

# Data Processing

# Preprocessing and Normalization

- 1 Enumeration of possible event categories
- 2 Date and Time format conversion into uniform expressions (e.g. The facebook dataset just annotates their date and time in only-human readable format such as 'Today AT 5AM')
- 3 Construction of new data field out of existing properties (e.g. Computing duration in minutes from the starting and ending dates of events)
- 4 Dealing with natural languages (e.g: dal 2020/12/20 al 2020/12/21 ora 5PM to startDate: 2020-12-20T17:00:00 etc.)

# Meeting data requirements

## Date

- 1 Split the field 'Quando'
- 2 Extract the From To dates
- 3 Convert the dates in standard form
- 4 Create new fields for From to dates
- 5 Populate the values in new fields

## Date

- 1 Extract text from 'Prezzo'
- 2 Check if the text contains any number
- 3 If number is in the text: Extract the number and populate it
- 4 Else: Put price as zero '0'

```
{
  "title": "Gelosamente al museo, appuntamenti per i pi\u00f9 piccoli",
  "rating": 5,
  "Dove": [
    "Castello del Buonconsiglio",
    "Via Bernardo Clesio"
  ],
  "Quando": [
    "Dal 04/10/2020 al 25/10/2020",
    "-15"
  ],
  "Prezzo": [
    "8 euro a nucleo familiare"
  ],
  "Altre Informazioni": [
    "no information"
  ],
  "materia": [
    "bambini",
    "famiglie",
    "musei"
  ],
  "figure": "///citynews-trentotoday.stgy.ovh/-media/original-hi/26310199904572/buonconsiglio-7.jpg",
  "body": [
    "Dal mese di ottobre ritorna l'appuntamento settimanale per famiglie, organizzato dai Servizi educat",
    "\r\nLe attivit\u00e0 sono su prenotazione e prevedono un numero massimo di partecipanti nel rispet",
    "SI parte ",
    "con Storie da castello:"
  ]
}
```

```
"title": "Gelosamente al museo, appuntamenti per i pi\u00f9 piccoli",
"Rating": 5,
"Dove": ["Castello del Buonconsiglio", "Via Bernardo Clesio"],
"Prezzo": "8",
"From_time": "2020-04-10 00:00:00",
"To_time": "2020-10-25 00:00:00",
"Altre Informazioni": {
  "no information"
},
"materia": [
  "bambini",
  "famiglie",
  "musei"
],
"Figure": "///citynews-trentotoday.stgy.ovh/-media/original-hi/26310199904572/buonc",
"Body": [
  "Dal mese di ottobre ritorna l'appuntamento settimanale per famiglie, organizzato",
  "\r\nLe attivit\u00e0 sono su prenotazione e prevedono un numero massimo di pa",
  "SI parte ",
  "con Storie da castello:"
],
"materia_ids": [
  27,
  29,
  5
]
```

# Meeting data requirements [3]

- 1 Extract the list of categories from 'materia'
- 2 Create a dictionary of unique categories and provide unique IDs to each category
- 3 Loop over the meeting data
- 4 Add a new field 'Materia ID'
- 5 Populate the category IDs for the respective category in 'Materia'

```
"Title": "Giocosamente al museo, appuntamenti per i pi\u00f9 piccoli",  
"Rating": 5,  
"Dove": "[\"Castello del Buonconsiglio\", \"Via Bernardo Clesio\"]",  
"Prezzo": "8",  
"From_time": "2020-04-10 00:00:00",  
"To_time": "2020-10-25 00:00:00",  
"Altre Informazioni": {  
  "no information"  
},  
"materia": [  
  "bambini",  
  "famiglie",  
  "musei"  
],  
"Figure": "///citynews-trentotoday.stgy.ovh/~media/original-hi/26310199904572/buonc  
"Body": {  
  "Dal mese di ottobre ritorna l'appuntamento settimanale per famiglie, organizza  
  "\r\nLe attivit\u00e0 sono su prenotazione e prevedono un numero massimo di pa  
  "SI parte ",  
  "con Storie da castello:"  
},  
"materia_ids": [  
  27,  
  29,  
  5  
]
```

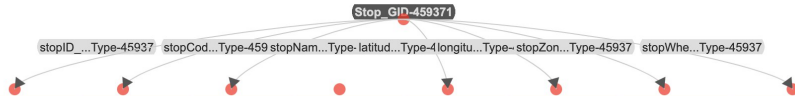
# Facebook data requirements: Sample

- 1 Extract the list of categories from 'materia'
- 2 Create a dictionary of unique categories and provide unique IDs to each category
- 3 Loop over the meeting data
- 4 Add a new field 'Materia ID'
- 5 Populate the category IDs for the respective category in 'Materia'

```
{
  "hosts": [
    "Host\\nLa merceria \\nC'era una volta\\n\\nHobby Store"
  ],
  "title": "CORSO ONLINE INFELTRIMENTO: ALBERO",
  "time": "DEC 4 AT 7:30 PM UTC+01 \\u2013 DEC 9 AT 7:30 PM UTC+01",
  "description": "Continuano con i corsi online di infeltrimento e questa volta",
  "location": "Online Event",
  "link": "https://www.facebook.com/events/442646183573774",
  "image": "https://scontent-mxp1-1.xx.fbcdn.net/v/t1.0-9/127203898_1643481685812",
  "going": "83",
  "interested": "10",
  "categories": [
    "Crafts",
    "Online"
  ]
}
```

```
"hosts": [
  "Details\\n330 people responded\\nDec 1 at 12 PM UTC+01 \\u2013 Dec 5 at 6 PM UTC+01\\nMaster\\nPublic \\u2013 Host"
],
"title": "MADA Miami x Warsaw 2020",
"time": "DEC 1 AT 12 PM UTC+01 \\u2013 DEC 5 AT 6 PM UTC+01",
"description": "See O",
"location": "Miami",
"link": "https://www.facebook.com/events/18100349947501/",
"image": "https://scontent-mxp1-1.xx.fbcdn.net/v/t1.0-9/127203898_1643481685812",
"going": "230",
"interested": "10",
"categories": [
  "Art"
]
```

# Result [1]



stop_id ▾	stop_code ▾	stop_name ▾	stop_desc ▾	stop_lat ▾	stop_lon ▾	zone_id ▾	wheelchair_boarding ▾
153	24515x	Montevaccino di Sotto		46.109508	11.140097	10110	2
154	24520z	Sp 131 "Paganin		46.106288	11.137610	10110	2
155	24520x	Sp 131 "Paganin		46.106524	11.137306	10110	2
156	24505z	M.Vaccino "Maso Librar		46.110418	11.138435	10110	2
157	24505x	M.Vaccino "Maso Librar		46.110776	11.138074	10110	2
158	28055z	Ss 45 "Montevideo		46.080499	11.098333	10110	2
159	25640z	Villazzano Valnigra		46.052092	11.146621	10110	1

# Result [2]

<div> <div>Generic..._1-GID-81361</div> <div>Temporal..._GID-813461</div> <div>Address..._GID-363671</div> </div>											
<div> <div>figure5..._4-Type-136</div> <div>title_G..._1-Type-138</div> <div>startDeventUR...</div> <div>endDateType..._GID-81330-Type-81348</div> <div>hasAddr..._Type-46556</div> <div>latitude..._Type-46558</div> <div>longitude..._Type-46558</div> <div>minutes..._Type-81346</div> </div>											
Image ▾	Name ▾	Start Date ▾	End Date ▾	Suggest	Place ▾	Address ▾	latitude ▾	longitude ▾	Begin ▾	End ▾	Durata ▾
1ages2.trentino...	Mercato settimanale a Mori	2020-10-22T08:00:00+0200	2020-10-22T13:00:00+0200	<a href="https://www.trentino.it/settimanale-a-mori/">https://www.trentino.it/settimanale-a-mori/</a>	Mori	Mori, Piazza Malfatti	45.851940	10.977638	08:00	13:00	300
1ages2.trentino...	Mercato di Ziano di Fiemme	2020-10-22T08:00:00+0200	2020-10-22T13:00:00+0200	<a href="https://www.trentino.it/di-ziano-di-fiemme/">https://www.trentino.it/di-ziano-di-fiemme/</a>	Ziano di Fiemme	Ziano di Fiemme, nel centro del paese	46.286046	11.562059	08:00	13:00	300
1ages2.trentino...	Mercato agricolo a Rovereto	2020-10-22T08:00:00+0200	2020-10-22T13:30:00+0200	<a href="https://www.trentino.it/agricolo-a-rovereto/">https://www.trentino.it/agricolo-a-rovereto/</a>	Rovereto	Rovereto, Piazza Malfatti	45.890910	11.039970	08:00	13:30	330
1ages2.trentino...	Giro d'Italia - Pinzolo	2020-10-22	2020-10-22	<a href="https://www.trentino.it/d-italia--pinzolo/">https://www.trentino.it/d-italia--pinzolo/</a>	Pinzolo	Pinzolo	46.158750	10.765670	No time specified	No time specified	
1ages2.trentino...	Mercato settimanale a Dro	2020-10-22T08:30:00+0200	2020-10-22T13:00:00+0200	<a href="https://www.trentino.it/settimanale-a-dro-/">https://www.trentino.it/settimanale-a-dro-/</a>	Dro	Dro, Piazza Repubblica	45.961502	10.911098	08:30	13:00	270