

# Wikidata and your application

Make your software part of the  
free knowledge ecosystem

QtCon 2016

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Imagine how your application  
could look like if it had the sum of all  
**human knowledge**  
available as an asset



**Giving more people more  
access to more knowledge**

# What is Wikidata actually?

- repository of the world's knowledge
- knowledge base anyone can read and edit
- multi-lingual
- designed to deal with the reality Wikipedia has to deal with
- free and open source software

**20,000,000+ items**

# Powerful Query Service with SPARQL

[query.wikidata.org](http://query.wikidata.org)

# Largest cities with a female mayor

Wikidata Query Service

```
1 #Largest cities with female mayor
2 SELECT DISTINCT ?city ?cityLabel ?mayor ?mayorLabel
3 WHERE
4 {
5   ?city wdt:P31/wdt:P279* wd:Q515 . # find instances of subclasses of city
6   ?city p:P6 ?statement . # with a P6 (head of government) statement
7   ?statement ps:P6 ?mayor . # ... that has the value ?mayor
8   ?mayor wdt:P21 wd:Q6581072 . # ... where the ?mayor has P21 (sex or gender) female
9   FILTER NOT EXISTS { ?statement pq:P582 ?x } # ... but the statement has no P582 (end date) qualifier
10
11 # Now select the population value of the ?city
12 # (wdt: properties use only statements of "preferred" rank if any, usually meaning "current population")
13 ?city wdt:P1082 ?population .
14 # Optionally, find English labels for city and mayor:
15 SERVICE wikibase:label {
16   bd:serviceParam wikibase:language "en" .
17 }
18 }
19 ORDER BY DESC(?population)
20 LIMIT 10
```

Press [CTRL-SPACE] to activate auto completion. Data last updated: 13:18:08 MESZ, 21. Apr. 2016

Execute Clear 10 Results in 713 ms

Display - Download - Link -

| city                   | cityLabel | mayor                     | mayorLabel              |
|------------------------|-----------|---------------------------|-------------------------|
| <a href="#">Q1156</a>  | Mumbai    | <a href="#">Q18218029</a> | Snehal Ambekar          |
| <a href="#">Q2807</a>  | Madrid    | <a href="#">Q19592761</a> | Manuela Carmena         |
| <a href="#">Q90</a>    | Paris     | <a href="#">Q2851133</a>  | Anne Hidalgo            |
| <a href="#">Q16555</a> | Houston   | <a href="#">Q213847</a>   | Annise Parker           |
| <a href="#">Q1563</a>  | Havana    | <a href="#">Q6774124</a>  | Marta Hernández Romero  |
| <a href="#">Q270</a>   | Warsaw    | <a href="#">Q271902</a>   | Hanna Gronkiewicz-Waltz |
| <a href="#">Q1492</a>  | Barcelona | <a href="#">Q4779594</a>  | Ada Colau               |
| <a href="#">Q472</a>   | Sofia     | <a href="#">Q444718</a>   | Yordanka Fandakova      |
| <a href="#">Q1085</a>  | Prague    | <a href="#">Q18104657</a> | Adriana Krnáčová        |
| <a href="#">Q365</a>   | Cologne   | <a href="#">Q19285371</a> | Henriette Reker         |

**Enrich your application  
with data**



File Edit View Bookmarks Settings Help

Open Print Copy Map

Search Routing Location

Search

Global Search



Map View Legend

Map View

Projection

Globe

Celestial Body

Earth

Theme



Atlas

A classic topographic map.



OpenStreetMap

A global roadmap created



Satellite View

Earth as seen from Space.



Behaim Globe 1492



Position: not available

Altitude: 1.070,3 km

Time:

[marble.kde.org](http://marble.kde.org)

**See what's around you  
and query for  
geocoordinates**



- Main page
- Community portal
- Project chat
- Create a new item
- Item by title
- Recent changes
- Random item
- Query Service
- Nearby
- Random Primary Sources item 
- Help
- Donate

- Tools
- Special pages
  - Printable version
  - Primary Sources list

Special page

## Nearby



**Wikimedia Germany**  
German section (chapter) of the Wikimedia Foundation  
40 m



**Tempelhofer Ufer 23–24**  
building in Kreuzberg (Berlin)  
60 m



**Möckernbrücke**  
bridge in Berlin  
70 m



**Elise-Tilse-Park**  
park in Berlin  
160 m



**Möckernstraße**  
street in Berlin  
180 m

<https://www.wikidata.org/wiki/Special:Nearby>



```

1 #Map of U1 subway stations in Berlin
2 #defaultView:Map
3 SELECT ?stationLabel ?coord
4 WHERE {
5   ?station wdt:P81 wd:Q99691 .
6   ?station wdt:P625 ?coord
7   SERVICE wikibase:label { bd:serviceParam wikibase:language "de" }
8 }

```



Press [CTRL-SPACE] to activate auto completion.

Data updated a few seconds ago

Run

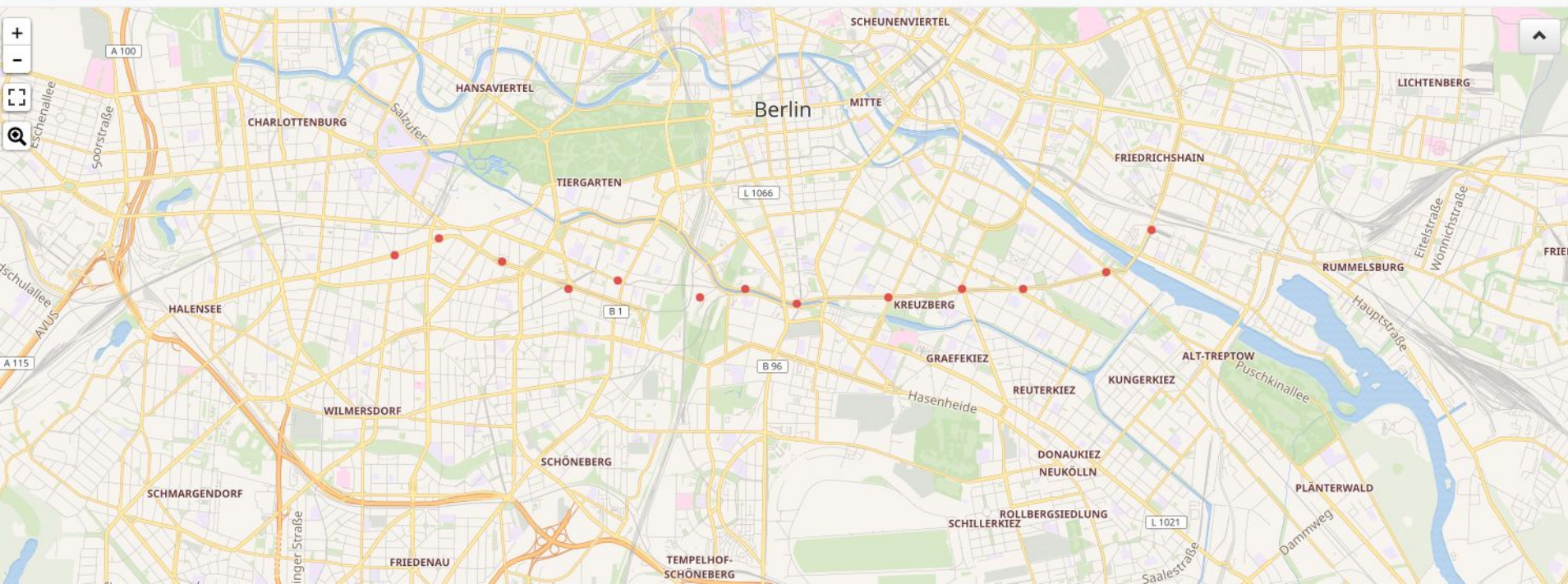
Clear

13 Results in 249 ms

Display

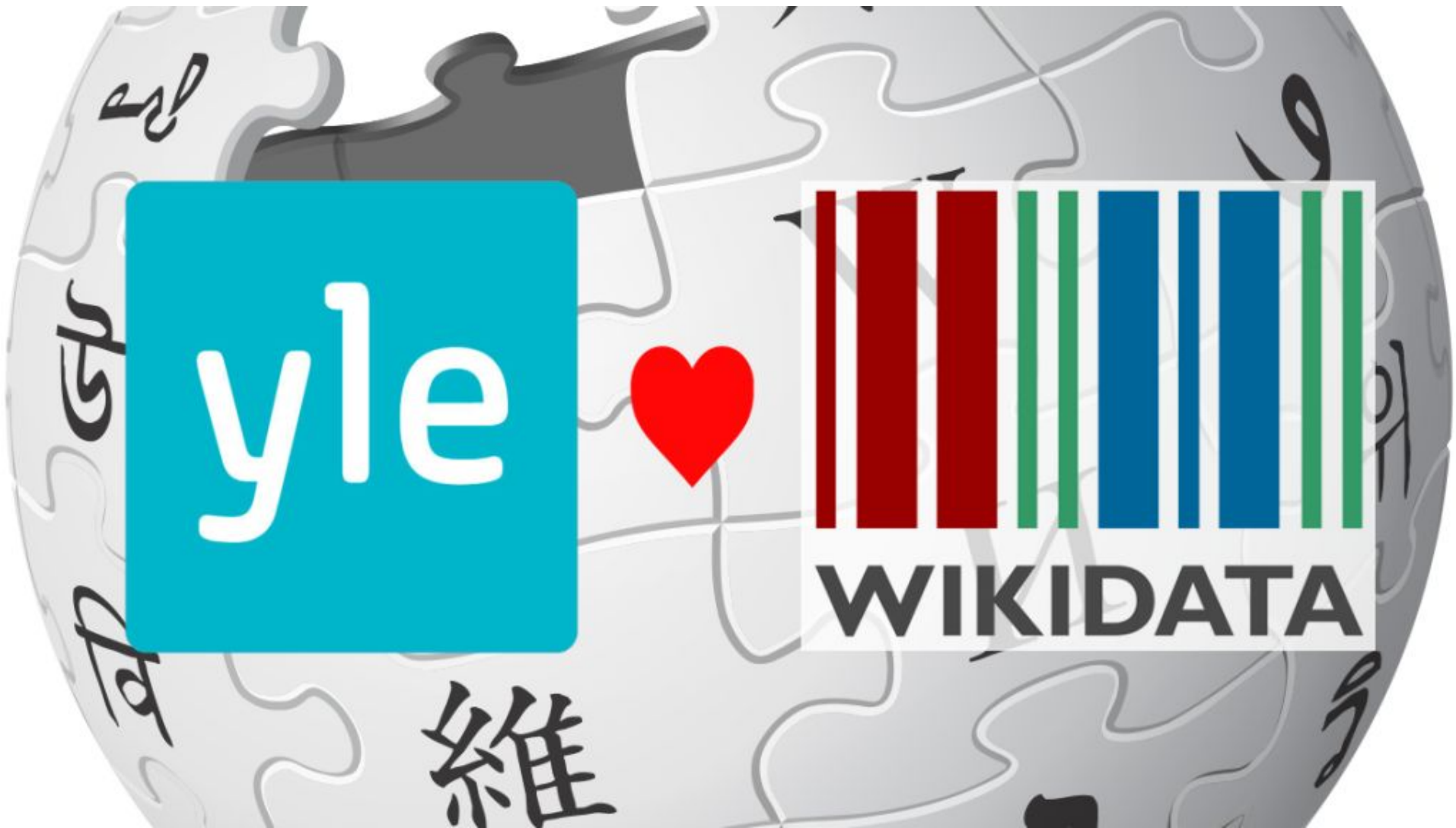
Download

Link



<http://tinyurl.com/z5oryma>

**Use Wikidata  
as a vocabulary to talk  
about things in the world**



<http://wikimedia.fi/2016/04/15/yle-3-wikidata/>

**Ask Wikidata  
(almost) anything**



## Ask me anything alpha version



Who is the director of "Her"?



This query engine is the result of the Master's degree project of seven students.

If you are interested by some technical aspects, please have a look at the [project website](#).





# Ask me anything alpha version



## Result

[Show internal results](#)

### Spike Jonze

Spike Jonze (pronounced "Jones" /dʒoʊnz/; born Adam Spiegel; October 22, 1969) is an American director, producer, screenwriter and actor, whose work includes music videos, commercials, film and television. He started his feature film directing career with *Being John Malkovich* (1999) and *Adaptation* (2002), both written by Charlie Kaufman, and then started movies with screenplays of his own with *Where the Wild Things Are* (2009) and *Her* (2013). Jonze is well known for his music video collaborations with Fatboy Slim, Weezer, Beastie Boys, Björk and Kanye West. [Wikipedia](#)

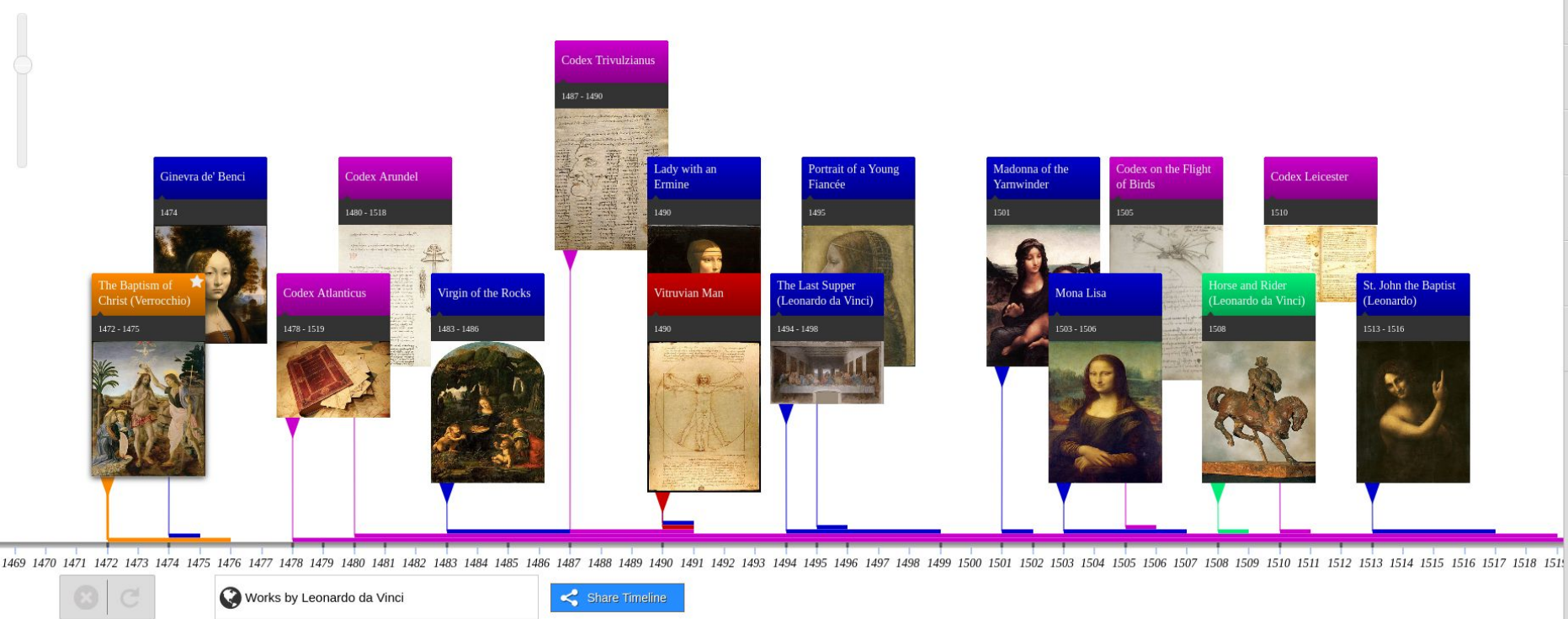


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**Visualize, remix, reuse!**





Works by Leonardo da Vinci

Share Timeline

<http://histropedia.com/timeline/lqtzsg300s/Works-by-Leonardo-da-Vinci>



## Museo del Prado

Spanish national art museum

### Works in Museo del Prado



Christ Washing the Disciples' Feet painting by Jacopo Tintoretto in the Prado



The Triumph of Bacchus painting by Diego Velázquez

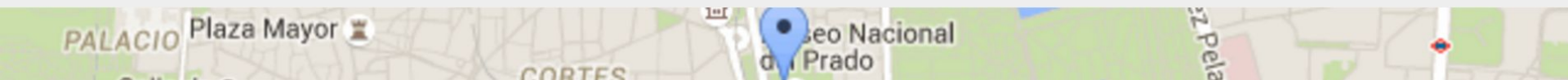


La maja desnuda painting by Francisco de Goya



Las Meninas painting by Diego Velázquez

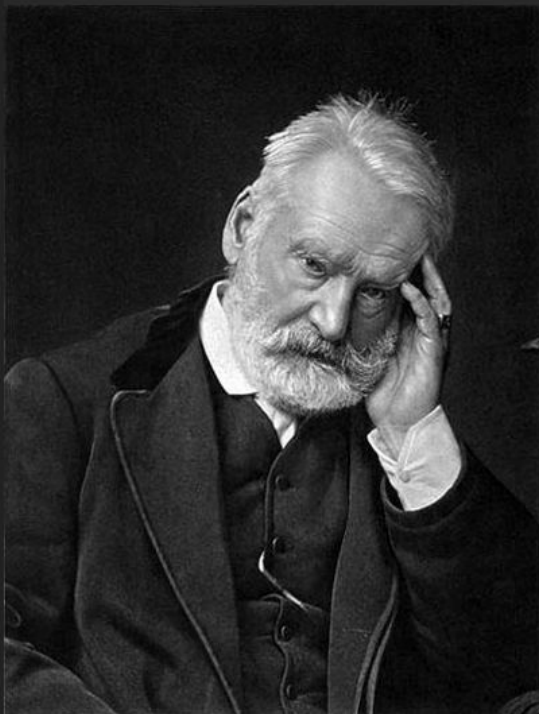
Show more



<http://sum.bykr.org/160112>

add a  
bookfriends &  
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books

exchanges



## Victor Hugo

French poet, novelist, and dramatist

1802 - 1885

country of citizenship: **France**

native language: **French**

educated at: **University of Paris, Lycée Louis-le-Grand**

occupation: **poet, politician, playwright, novelist,**

**draughtsperson, librettist, essayist, memoirist, writer**

position held: **member of parliament in France, member of  
the Senate of France**

## Les Misérables

Les Misérables (pronounced /leI, mIZə'ʁɑ:b/ or /leI 'mIZə,ʁɑ:b/; French pronunciation: [le mizeʁabl(ə)]) is a French historical novel by Victor Hugo, first published in 1862, that is considered one of the greatest novels...

author: Victor Hugo

1862

[more details](#)

[add to my inventory](#)

[in your network](#)

## The Hunchback of Notre Dame



The Hunchback of Notre-Dame (French: Notre-Dame de Paris) is a French Romantic/Gothic novel by Victor Hugo published in 1831. The title refers to the Notre Dame Cathedral in Paris, on which the story is ...

author: Victor Hugo

1831

[more details](#)

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## Ninety-Three



Ninety-Three (Quatrevingt-treize) is the last novel by the French writer Victor Hugo. Published in 1874, shortly after the bloody upheaval of the Paris Commune, the novel concerns the Revolt in the Vendée and ...

author: Victor Hugo

[more details](#)

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## Cromwell

Cromwell is a play by Victor Hugo, written in 1827. It was influenced by Hugo's literary circle, which identified itself as Romanticist and chose as a model dramatist Shakespeare instead of the Classicists Jean Racine and ...

author: Victor Hugo

1827

[more details](#)

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## The Man Who Laughs

The Man Who Laughs (also published under the title By Order of the King) is a novel by Victor Hugo, originally published in April 1869 under the French title L'Homme qui rit. Although among Hugo's most obscure works...

[more details](#)

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# Imagine!

- Personal assistants (think Siri or Google Allo)
- Geolocation-based games
- 3D worlds, enriched with knowledge
- Machine learning based on the world's knowledge
- And much more...

# Thank you! Any questions?

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