

# Constraint-a-thon

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# Overview

“Property constraints are rules on properties that specify how properties should be used.”

“Constraints are hints, not firm restrictions, and are meant as a help or guidance to the editor. They can have exceptions”

[https://www.wikidata.org/wiki/Help:Property\\_constraints\\_portal](https://www.wikidata.org/wiki/Help:Property_constraints_portal)

# Types of constraints

Single value	One Wikidata item shouldn't have two property values
Distinct value	Two Wikidata items should not have the same property value
Formatting	The property value should be formatted in a certain way
Inverse	Two Wikidata items should link to each other using a property pair
...	
Complex constraints	It's complex, see <a href="https://www.wikidata.org/wiki/Template:Complex_constraint">https://www.wikidata.org/wiki/Template:Complex_constraint</a>

# Stored in Wikidata property info

P131

Constraints		Constraint type
	property constraint	conflicts-with constraint property instance of item of property constraint human
		conflicts-with constraint property instance of item of property constraint Wikimedia disambiguation page constraint status mandatory constraint
		conflicts-with constraint property instance of item of property constraint Wikimedia category Wikimedia template Wikimedia module Wikimedia list article
		item-requires-statement constraint property instance of constraint status suggestion constraint
		item-requires-statement constraint property country constraint status suggestion constraint
		value-type constraint class administrative territorial entity fictional administrative territorial entity fictional county designation for an administrative territorial entity relation instance or subclass of

P2302

Constraint parameters as qualifiers

# Constraint violations in Wikidata items

Q47616

P373

Constraint  
violation  
warning

Constraints  
violated

topic's main category

Commons category

- Incandescent light bulbs ... ⓘ edit + add reference
- Light bulbs ... ⓘ edit + add reference
- Light bulb ... ⓘ edit + add reference

**Potential issues** ×

**single value constraint** Help Discuss This property is generally expected to contain only a single value.

**Commons link constraint** Help Discuss Commons link should exist.

edit + add reference + add value

edit + add reference + add value

# Constraint violation exceptions

P649

property constraint	single value constraint	 edit	
	exception to constraint		
	Cape Henry Light		
	University of Maine		
	Fort Monroe		
	Woodlawn		
	Harvard Square		
	Nevada Northern Railway Museum		
	Grand Circus Park Historic District		
	Newport Southbank Bridge		
	North Entrance Road Historic District		
	Oakleigh Garden Historic District		
	Perry's Victory and International Peace Memorial		
	Vizcaya Museum and Gardens		
	Hassel Island Historic District		
	Martin Luther King, Jr., National Historic Site		
	Chalker High School		

# Require other properties to be set

P1700

property constraint	type constraint	edit	green circular icon
	class geographic location		
	relation instance of		
	▼ 0 references	+ add reference	
	item requires statement constraint	edit	green circular icon
	property country		
	item of property constraint Portugal		
		Portuguese Empire	
	group by country		
	▼ 0 references	+ add reference	
	item requires statement constraint	edit	green circular icon
	property located in the administrative territorial entity		
	▼ 0 references	+ add reference	
	item requires statement constraint	edit	green circular icon
	property coordinate location		
	▼ 0 references	+ add reference	

# Constraint reports

Bot-updated pages at, e.g.:

[https://www.wikidata.org/wiki/Wikidata:Database\\_reports/Constraint\\_violations/P131](https://www.wikidata.org/wiki/Wikidata:Database_reports/Constraint_violations/P131)

[https://www.wikidata.org/wiki/Wikidata:Database\\_reports/Complex\\_constraint\\_violations/P131](https://www.wikidata.org/wiki/Wikidata:Database_reports/Complex_constraintViolations/P131)

Updated every few days. Can also run them using SPARQL to see latest results.

# Editing tasks

Identify new constraints to add to properties

Recently-created authority control IDs?

Use constraints to fix Wikidata content

e.g., P301/P910 pairs

Useful links:

[https://www.wikidata.org/wiki/Help:Property\\_constraints\\_portal](https://www.wikidata.org/wiki/Help:Property_constraints_portal)

<https://www.wikidata.org/wiki/Wikidata:Vandalism> (needs work!)

[https://www.wikidata.org/wiki/Wikidata:2020\\_report\\_on\\_Property\\_constraints](https://www.wikidata.org/wiki/Wikidata:2020_report_on_Property_constraints)

# Thanks for your attention!

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## Credits

Some slides reused from last year's presentation with [\[\[User:Abián\]\]](#)