

# MRL 2025 Shared Task on Multilingual Physical Reasoning Datasets

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## Dataset description

The dataset follows the mandatory format and thus has the following columns: prompt, solution0, solution1, label in a .TSV file in utf-8 encoding.

The dataset was heavily influenced by the following criteria mentioned in the task description slides (MRL 2025 Organizers [2025](#)). A direct quote is shown below:

Physical reasoning: For each example, the solution must relate to the physical properties of one or more objects. Common sense: For each example, an average person who speaks your language natively should know the answer. Culturally specific: We encourage authors to include culturally-relevant examples for their language(s). For example, some items may not be easily translatable into English or may require regional and/or cultural commonsense. For ideas: examples about local foods, places, everyday objects, customs, traditions, religions, literature, folklore, or art forms? Consider common physical tasks or actions. Use items of variable length. Try not to include too many short items, as they may be too easy for larger models. If possible: Most examples (prompt+solution) should be over 25 words long. There should be some prompts that are multiple sentences long. The two candidate solutions should be as similar as possible (e.g. differing only by one or two words, or just flipping the order of two phrases). One solution should be unambiguously correct and the other incorrect. To ensure that the benchmark is not too "easy", the incorrect solution should not be so absurd that it is extremely obvious. Try not to start all examples the same way.

(MRL 2025 Organizers [2025](#))

No LLMs were used to generate the data and no translation of the PIQA dataset was added. As such the entries I submit are manually crafted by me. The first 50 data entries are made with cultural considerations, i.e., including slang, traditions, Swedish foods, and hard to translate Swedish words and objects

in general. I try to give a little more context to the data for some entries to make them more complete in meaning. Compared to PIQA and the examples shown on the slides, some of the entries are more like statements, rather than questions or incomplete sentences, and can only be filled if the person has some cultural awareness. The rest are either questions or incomplete sentences that with common sense are answered correctly with ease. Some of the inspiration for the more culturally inspired sentences was taken from this list that I compiled myself (a lot of the words are hard to translate into english):

- Foajé - public lobby of a theatre, opera, or concert hall
- Kroppkakor - swedish potato dumpling with pork and onion as stuffing. Typically served with melted butter and lingonberry jam.
- lagom - means moderate but it's a very swedish word
- fika - like coffee break, it's a swedish thing
- kanelbulle - something you usually eat during fika
- farmormormor & morormorfar - in english becomes grandmother & grandfather.
- surströmmning - fermented herring
- badkruka - someone who is scared of swimming
- smörgåsbord - there is in english called smorgosbord
- köttbullar - swedish meatballs
- klämdag - it's any day that is between two take-off days. Friday for instance, where thursday maybe is a special day for people to take off, and saturday is weekend, then friday becomes a klämdag
- kallsup - inadvertantly breathing in water
- hen - they/them
- dalahäst - a very unique swedish red horse carved in woods
- vindöga - basically an opening at top of old houses to let smoke through from the fireplace
- ilar i tänderna - tooth ache
- ombudsman - it's a swedish word for an individual appointed to investigate individuals' complaint against company or government
- pippi - swedish fictive character
- är inte dum heller - it's not bad

- sambo - someone you live with
- allemansrätt - the right to walk everywhere except on private property in Sweden, it's by law.
- lördagsgodis - weekend sweets.
- orka, e.g. jag orkar inte - I can't be arsed/bothered with
- mys - closest translation is chill
- dygn - meaning next 24h, it's very specific to 24h, while in english doesn't have closest is next day
- påtår - refill coffee cup, first time is called kaffetår, second påtår, third tretår etc, but more than second is rarer to hear
- solkatt - reflections of sun through window
- mångata - moon reflection on the water during night
- slutstation - final station
- fartkamera - speeding camera
- vabba - taking off from work to take care of children, while getting paid
- vaskning av champagne - swedish thing where you buy champagne at a restaurent to then pour the contents in a sink, it's a workaround to doing champagne dousing that is now illegal in many restaurants
- panta - to recycle bottles and get money return (small changes)
- påskmust - a swedish soda consumed during easter
- julmust - same but in christmas
- betongkeps - worse than "backfull" and hangover
- kåsupare - to be equally bad, it's a negative conotation, rather than being equally good
- gottegris - sweet toothed person, likes sweets alot
- snorunge - brat
- donken - slang for mcdonalds in sweden
- 08 - means people from Stockholm, cuz area code for stockholm is 08
- eventuellt - means possibly in swedish not eventually which means something will happen sooner or later

- surströmningspremiär - on the third thursday of aug month people eat surströmming in sweden (not super common)
- harkla - clearing the throat
- hoppilandkalle - person that jumps ashore to moor a boat
- nisse - just a random person
- blåsväder (hamna i blåsväder) - to get into trouble
- planka - to skip paying for entry fee at metro station
- särbo - person in a long-time committed relationship not living with their partner
- gökotta - swedish tradition (although not super common) to go out on picknick early on a spring day to listen to the first Common Cuckoo (Gök) singing's of the year (happens early spring)
- skare/skarsnö - the hard surface on snow (when it has melted but frozen again)
- tjäle - referring to a type of ground frost, very hard to dig (have you ever tried to dig on ground that has sort of frozen)
- smultronställe - your own happy place (favorite place) or a time in your life that you felt happy
- midsommar - swedish tradition happens every june, people come together to celebrate the middle period of summer, the summer solstice, after this period the days will only get shorter (sun time). Also dancing around a maypole to celebrate the fertility and vigor
- kräftskiva - lobster fest tradition
- studentskiva - it's a party to celebrate last year of high school
- studentflak - where students go on their high school graduation, it's usually the last part of the graduation
- semlor - what you eat on fettisdagen, swedish tradition, a bun with almond and cream
- fettisdagen - swedish tradition where you eat semlor
- kannelbullensdag - celebrate on October 4
- våffeldag - on March 25
- hinna - to have time for or to make it, can also mean a small membrane

- palla - to have "ork" to do something, it's a slang among youngster, to have the energy to do something basically
- fulparkerare - to park ugly or not well
- snuskhummer - a pervert
- ogooglebar - ungoogleable
- pålägg - it's like any extra complementing food items you have on bread, like a topping, it's not spread, it's things like ham, vegetables, salami, egg etc, anything that you can put on bread to eat
- blodpudding - swedish food
- flygande jakob - swedish food
- gravlax - swedish food
- jansons frestelse - swedish food
- pannkakor - swedish food
- prinskorv - swedish food
- smulpaj - commonly made with apple
- kladdkaka - chocolate cake made in a special way, but easy also
- lussekatt - saffron bun usually made around christmas
- pepparkaka - like ginger snaps made around christmas time
- glögg - mulled wine consumed around christmas time
- pyttipanna - swedish food
- wallenbergare - swedish food
- aina - police in suburban swedish slang
- förortssvenska - suburban swedish
- baxa - to steal something in förortssvenska
- para - money in förortssvenska
- jalla - hurry up in förortssvenska
- bakis - hungover slang
- bärs - beer slang
- brillor - sunglasses slang

- kaka - to eat slang
- lack - angry slang
- macka - bread slang
- päron - parents slang
- stekare - slang for rich person from stockholm
- tuben - stockholm subway slang
- kissnödig - to really have to go to the toilet to pee
- bajsnödig - really needing to go to the toilet to poop
- oväder - bad weather
- arbetsro - to not be disturbed while working/focusing on something
- seg e.g. seg respons - slow/sluggish
- fredagsmys - friday chill, usually a happy conocation for the beginning of the weekend, coming home from work on friday
- gött - gothenburg accent for good
- trivs/trivas på jobbet - to fit in a workplace or to feel welcomed
- vinterkräksjuka - norovirus
- antirynkräm - anti-age cream
- plogga - act of picking up litter while jogging, apparently english has adopted it called plogging. Started as a movement 2016 and spread to other countries in 2018.
- mula - to rub snow on someone's face, usually done by kids at school
- air gun - swedish invention, first documented 1580
- adventljusstake - 4 candlelight, each sunday of the Dec month one is lit until chrimstas
- chokladkalender - advent calender but with chocolate behind each calender "door/window"
- knäckebröd - swedish food
- IKEA - famous furniture company based in Sweden
- Lucia - swedish tradition on 13 Dec to commemorate Lucia of Syracuse

- påskkärring - easter witch during easter, swedish folklore that says the easter witch flies to Blåkulla on brooms on the Thursday before easter to celebrate something. In modern time kids or participants of easter celebrate by dressing up as påskkärring.
- jojkare - traditional form of song by sámí people
- apotek röda näsan - another word for systembolaget
- dampade/få damp - to lose it, to crash out
- grisch - en stekare, fast for gen-z benämning
- krympflation - the reduction of content in commercial products, such as food, or home utilities, without price reduction
- mjuta - to mute, usually in context of muting a microphone online
- zoombombning - intrusion of uninvited guest in zoom meeting
- kebaptallrik - basically means kebab plate, consisting of kebab with fries + salad + tomato sauce + garlic sauce. Can be served with bread or rice instead of fries.

## References

MRL 2025 Organizers (2025). *MRL 2025 Shared Task at EMNLP: Multilingual Physical Commonsense Reasoning Datasets*. Task instruction presentation.