

Mental Disorders

Data Collection and Preparation

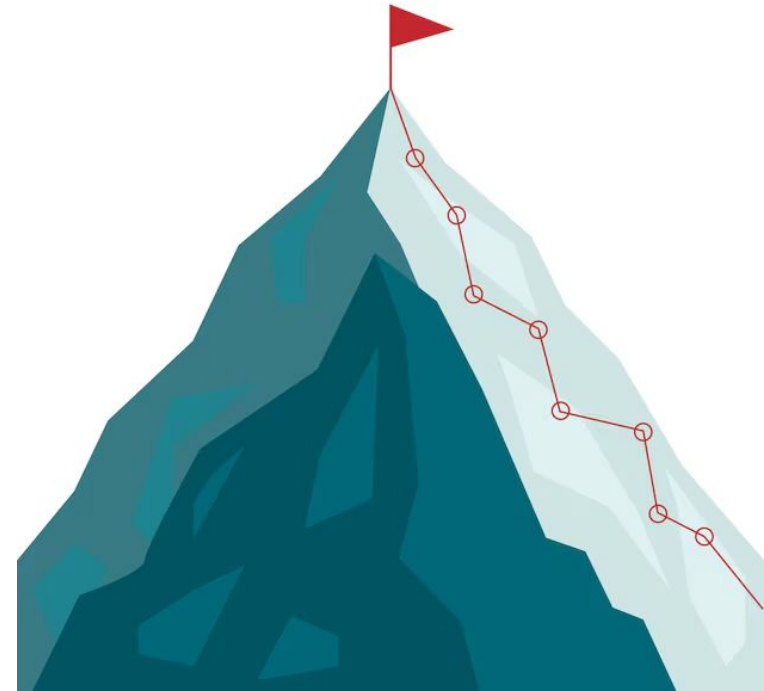


Objectives

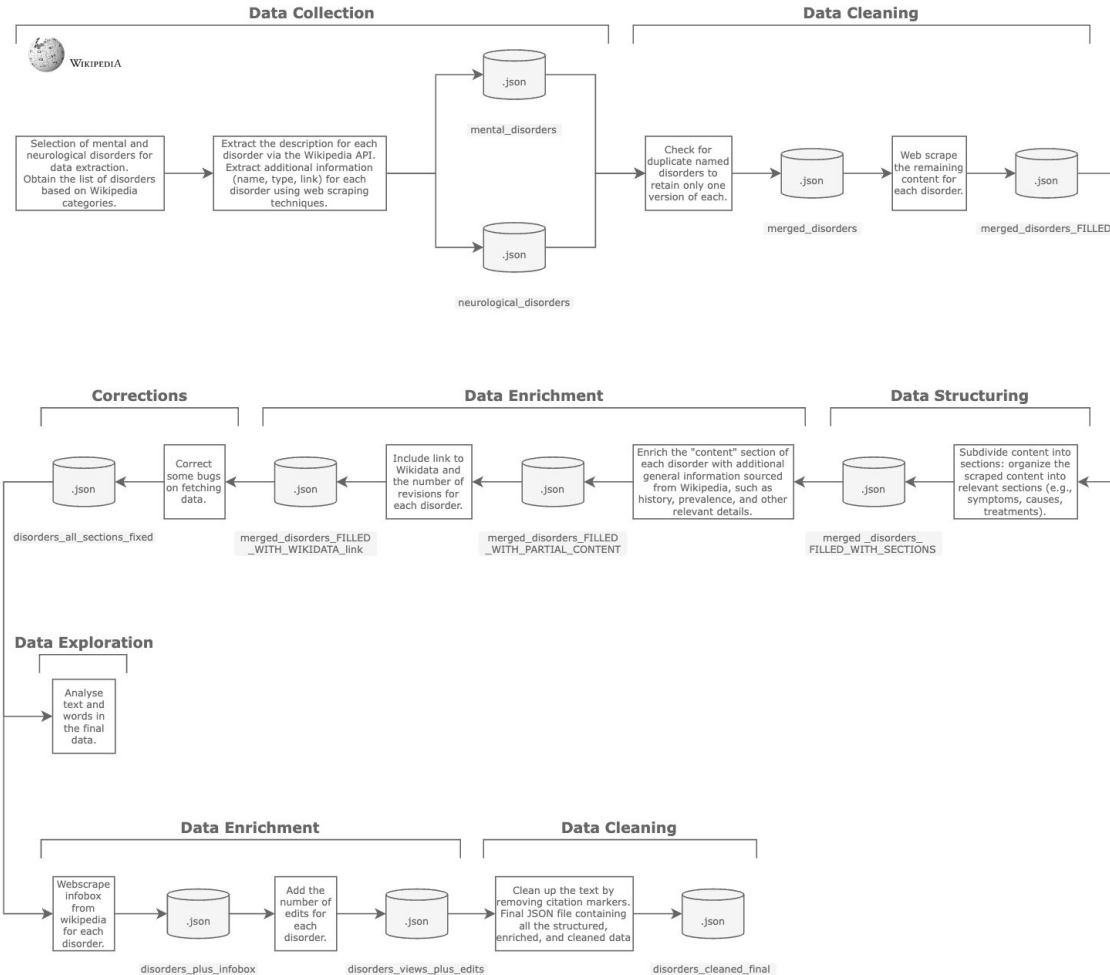
The project consists in design and implementation of an information processing and research system of Mental Diseases.

The questions we seek to answer are:

- What is [Disorder Name]?
 - Example: What is Agoraphobia?
- What are the symptoms of [Disorder Name]?
 - Example: What are the symptoms of ****Bipolar Disorder****?
- I am feeling [symptom]
 - Example: I am feeling anxious

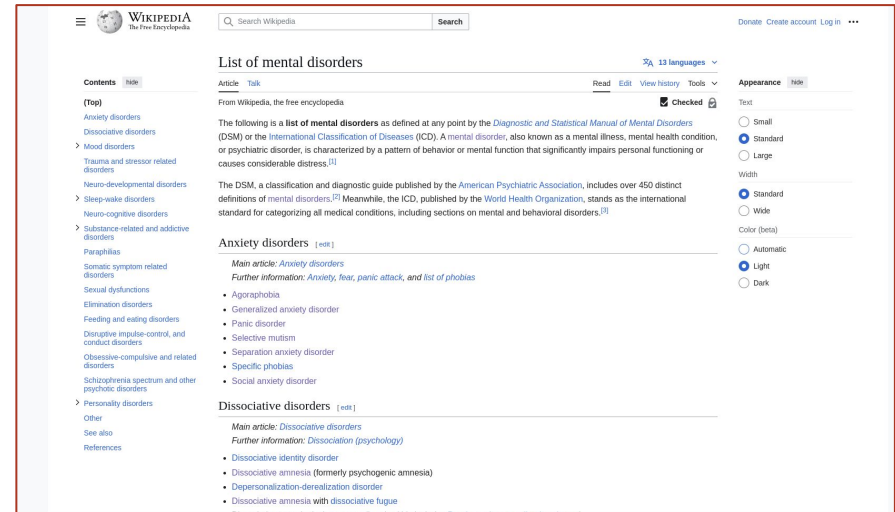


Pipeline



Data Collection

https://en.wikipedia.org/wiki/List_of_neurological_conditions_and_disorders



Collecting Information - Process

For gathering data, we follow a process consisting on the following topics:

1. Fill content and description of the merged JSON list of disorders.
2. Associate new information (sections organized) to the list of disorders.
3. Associate Wikidata link to a JSON list of disorders and get the number of revisions.
4. Edit the content, scrape again the wikipedia, but this time select only a part of content.
5. Add the infobox (Scrape from Wikipedia) as a new field containing the infobox data in JSON format.
6. Add the wikipedia number of edits and page views over the last 30 days to the JSON.
7. Remove redundant text from text fields, example [1], [2], [1], etc.

Dyslexia

Article Talk

From Wikipedia, the free encyclopedia

Dyslexia, previously known as **word blindness**, is a **learning disability** (learning difficulty in the UK^[a]) that affects either reading or writing.^{[1][7]} Different people are affected to different degrees.^[8] Problems may include difficulties in **spelling** words, reading quickly, **writing words**, "sounding out" words **in the head**, pronouncing words when reading aloud and understanding what one reads.^{[3][8]} Often these difficulties are first noticed at school.^[8] The difficulties are involuntary, and people with this disorder have a normal desire to **learn**.^[3] People with dyslexia have higher rates of **attention deficit hyperactivity disorder** (ADHD), **developmental language disorders**, and **difficulties with numbers**.^{[2][9]}

Dyslexia is believed to be caused by the **interaction** of **genetic** and environmental factors.^[2] Some cases run in families.^[3] Dyslexia that develops due to a **traumatic brain injury**, **stroke**, or **dementia** is sometimes called "acquired dyslexia"^[1] or **alexia**.^[3] The underlying mechanisms of dyslexia result from differences within the **brain's language processing**.^[3] Dyslexia is diagnosed through a series of tests of memory, vision, spelling, and reading skills.^[4] Dyslexia is separate from reading difficulties caused by **hearing** or **vision problems** or by insufficient **teaching** or opportunity to learn.^[2]

Treatment involves adjusting teaching methods to meet the person's needs.^[1] While not curing the underlying problem, it may decrease the degree or impact of symptoms.^[10] Treatments targeting vision are not effective.^[11] Dyslexia is the most common **learning disability** and occurs in all areas of the world.^[12] It affects 3–7% of the population;^{[2][5]} however, up to 20% of the general population may have some degree of symptoms.^[13] While dyslexia is more often diagnosed in boys, this is partly explained by a self-fulfilling **referral bias** among teachers and professionals.^{[2][14]} It has even been suggested that the condition affects men and women equally.^[12] Some believe that dyslexia is best considered as a different way of learning, with both benefits and downsides.^{[15][16]}

Classification

Main article: *Pure alexia*

Dyslexia is divided into developmental and acquired forms.^[17] Acquired dyslexia occurs subsequent to neurological insult, such as **traumatic brain injury** or **stroke**. People with acquired dyslexia exhibit some of the signs or symptoms of the developmental disorder, but require different assessment strategies and treatment approaches.^[18] *Pure alexia*, also known as **agnosic alexia** or *pure word blindness*, is one form of **alexia** which makes up "the peripheral dyslexia" group.^[19]


Signs and symptoms

See also: *Characteristics of dyslexia*

In early childhood, symptoms that correlate with a later diagnosis of dyslexia include **delayed onset of speech** and a lack of **phonological awareness**.^[11] A common myth closely associates dyslexia with **mirror writing** and reading letters or words backwards.^[20] These behaviors are seen in many children as they learn to read and write, and are not considered to be defining characteristics of dyslexia.^[11]

Dyslexia

Other names Reading disorder, alexia



Difficulties in processing letters and words

Specialty	Neurology, pediatrics
Symptoms	Trouble reading ^[2]
Usual onset	School age ^[2]
Types	Surface dyslexia
Causes	Genetic and environmental factors ^[1]
Risk factors	Family history, attention deficit hyperactivity disorder ^[4]
Diagnostic method	Series memory, spelling, vision, and reading test ^[4]
Differential diagnosis	Hearing or vision problems, insufficient teaching ^[2]
Treatment	Adjusting teaching methods ^[1]
Frequency	3–7% ^{[2][5]}

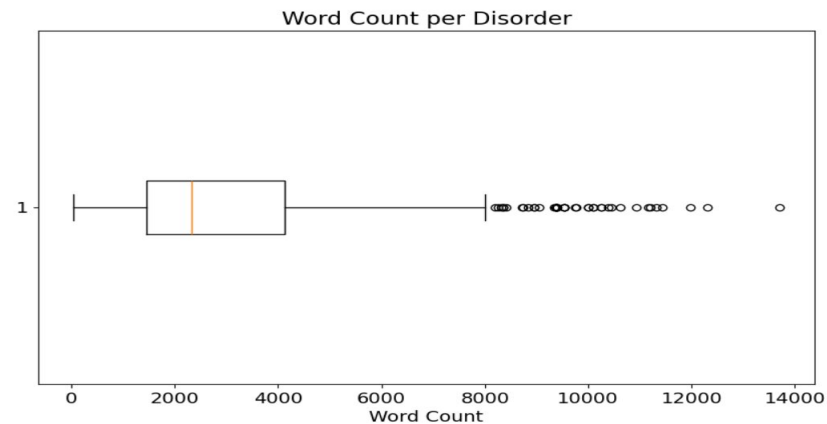
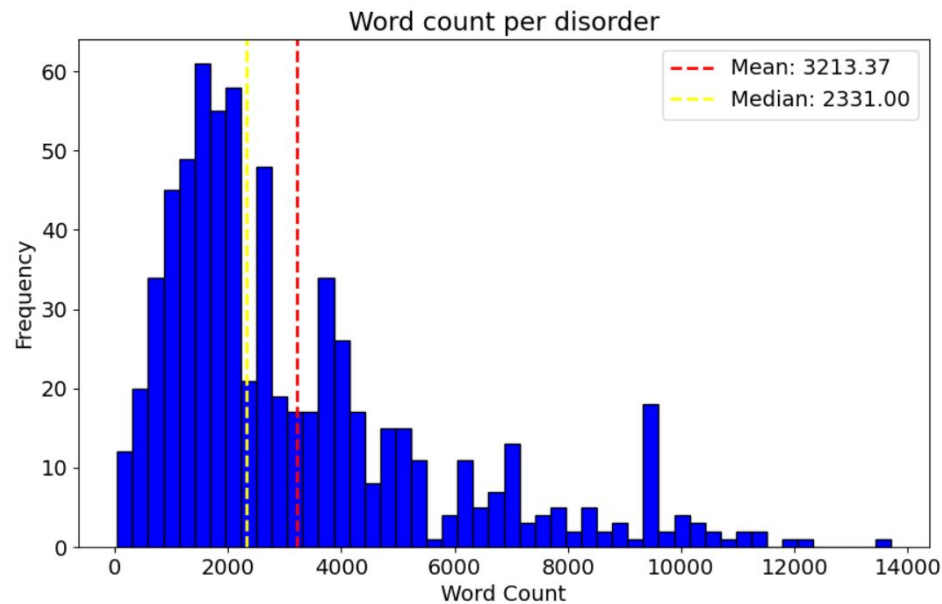
Final Document - Example

```
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type: "Anxiety disorders"
link: "https://en.wikipedia.org/wiki/Agoraphobia"
▼ description: "\n\nAgoraphobia is a mental and behavioral disorder, specifically an anxiety disorder ( public transit, shopping centers, crowds and queues, or simply being outside their home become completely unable to leave their homes."

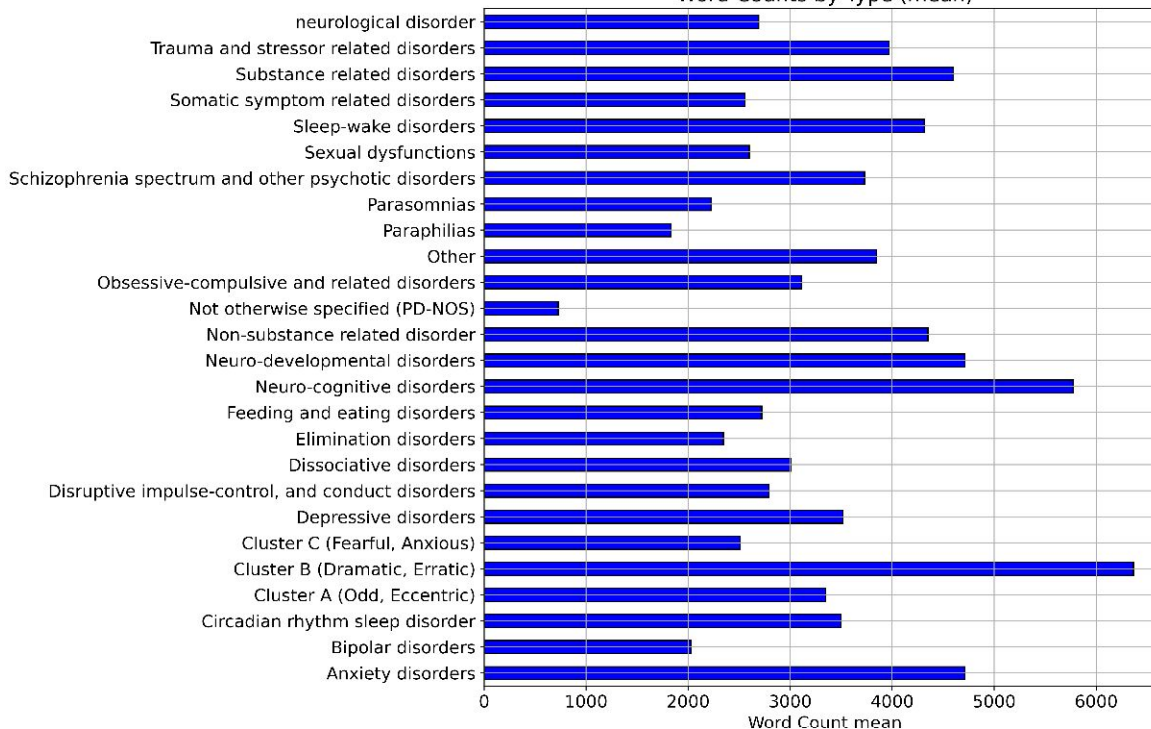
  ▶ content: `/,ægərə'foʊbiə, ə,gɔːrə-...r agitation\nStereotypy`
  ▶ causes: "Agoraphobia is believed ...panic attacks occurred."
  ▶ symptoms: `Agoraphobia is a conditi...g control of behaviors.`
  ▶ treatment: "Therapy\nSystematic dese...they should be avoided."
  ▶ diagnosis: "Most people who present ... be diagnosed together."
  prevention: ""
▼ epidemiology: "Agoraphobia occurs about twice as commonly among women as it does in men. It can devel... agoraphobia affects roughly 5.1% of Americans, and about 1/3 of this population with par... disorders as well."

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▼ infobox:
  Pronunciation: "/ , æ g ə r ə ' f oʊ b i ə , ə , g ɔː r ə - /"
  Specialty: "Psychiatry , clinical psychology"
  ▼ Symptoms: "Anxiety in situations perceived to be unsafe, panic attacks [ 1 ] [ 2 ]"
  Complications: "Depression , substance use disorder [ 1 ]"
  Duration: "> 6 months [ 1 ]"
  Causes: "Genetic and environmental factors [ 1 ]"
  Risk factors: "Family history, stressful event [ 1 ]"
  ▼ Differential diagnosis: "Separation anxiety , post-traumatic stress disorder , major depressive disorder [ 1 ]"
  Treatment: "Cognitive behavioral therapy [ 3 ]"
  Prognosis: "Resolution in half with treatment [ 4 ]"
  Frequency: "1.9% of adults [ 1 ]"
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page_views: 73198
```

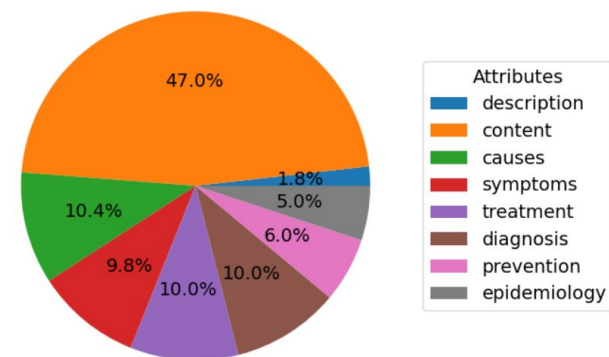

Data Analysis

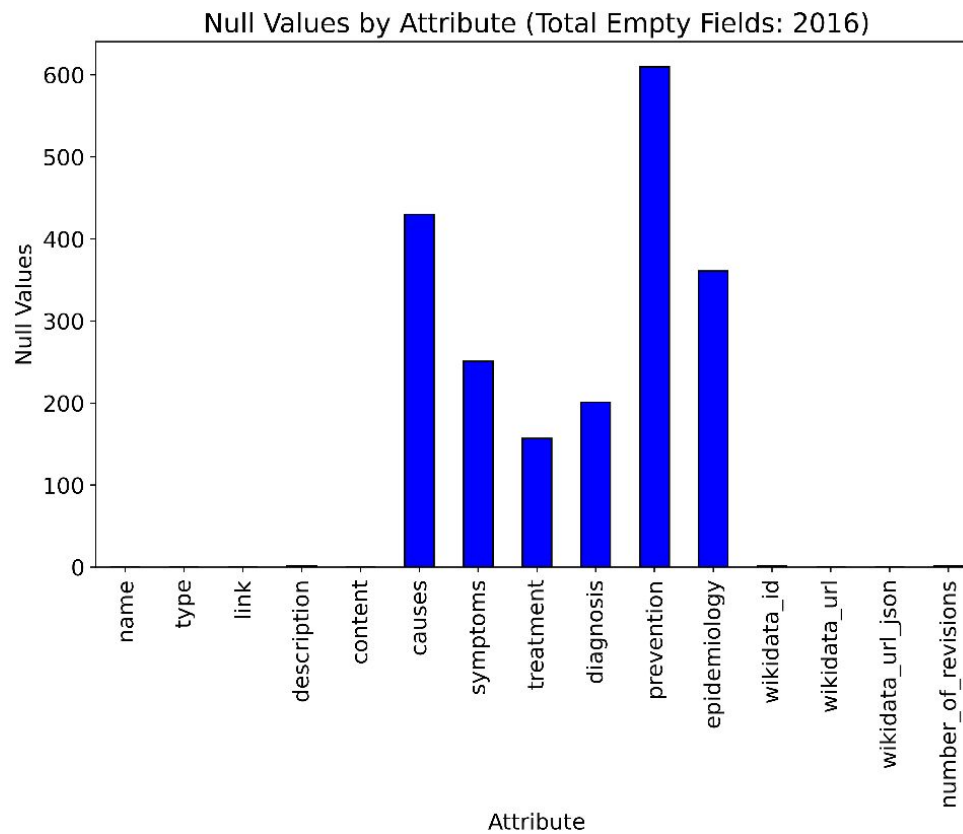


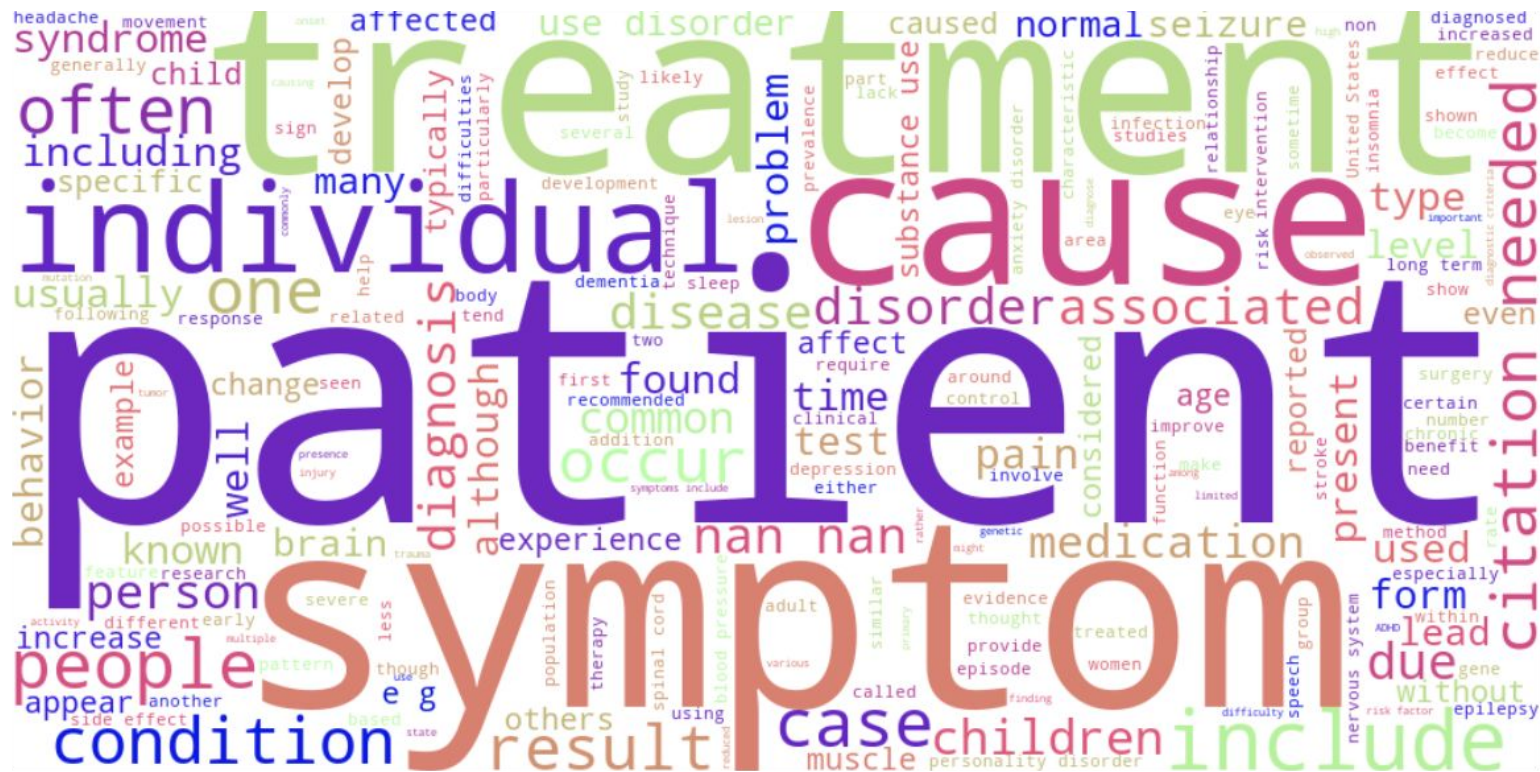
Word Counts by Type (mean)



Word Count per Attribute (with content)







The end of the Powerpoint

Thanks for the attention. Do you have any question?