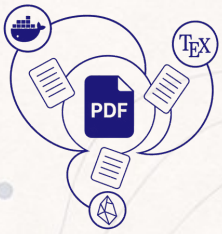
# NOPE

The Test Document

*Mrlwan*

2026-05-20



# Abstract

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# Table of Contents

# 1 Slice-Embed

This document tests slice embeds **and** wikilink resolution against the target map. The source note is `slice-source.md`.

## 1.1 Heading-Slice

Expected behavior: only the “Middle Section” including sub-headings A and B will be embedded. The first and third sections must not appear. Additionally, the middle section is an H1 in its own note, but should be rendered as an H2 in the PDF. Embedded notes are shifted by $N$ heading levels, where $N$ is always > 0.

### Middle Section

This is the content of the middle section. If the slice test works correctly, **exactly this section including the sub-headings** should land in the export — the first and third sections must not appear.

**Sub-Heading A** Content under sub-heading A. Belongs to the middle section (level 2 under level 1), so it will be embedded with it.

**Sub-Heading B** Content under sub-heading B. Here too: belongs to the middle section.

## 1.2 Block-ID-Slice

Expected behavior: only the single paragraph from the first section marked with `^para-first` will be embedded. The `^para-first` suffix itself should not be visible in the PDF.

This is the Paragraph with the `para-first`Block in the end.

This is another paragraph referenced by para suffix.

## 1.3 Fallback for Broken Anchor

Expected behavior: a plain-text notice in the style `[Section not found: slice-source#Does-Not-Exist]` not the entire note content.

[Heading not found: slice-source#Does-Not-Exist]

And for block IDs:

[Block ID not found: slice-source#^block-does-not-exist]

### 1.4 Full Embed

For verification: a source note without an anchor, embedded completely once.

#### First Fill Section

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**Second Heading LVL** Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.

## 2 Wikilinks

Expected behavior: each of these links should be clickable in the PDF and jump to the correct anchor. In the LaTeX output, `\hyperref{...}` is used with the registered label.

Note link without anchor: Subsubsection 1.1 — jumps to the beginning of the first embed.

Note link with display alias: alternative display — same jump, different visible text.

Heading link to embedded heading: Subsubsection 1.1 — jumps to the “Middle Section”.

Block-ID link: slice-para#^para-first — jumps to the block-ID paragraph from the first section.

Link to non-embedded block: slice-para#^does-not-exist — the block ID was not part of any slice embed, so no anchor exists. The link text remains visible, but as plain text instead of a hyperref.

Link to non-embedded note: A-Note-We-Did-Not-Embed — because the note is never embedded in this document with `![...]`, no anchor exists. Thus plain text.

Link to non-existent heading of an embedded note: slice-source#Does-Not-Exist — the note is embedded, but this heading does not appear in it.

# 3 Obsidian Markup

Tests for `obsidian-inline.lua`. Expectations are described in the comment above each test — only what remains after transformation should be visible in the PDF.

## 3.1 Comments (`%%...%%`)

Expected behavior: a single inline comment disappears, the rest remains visible.

Before the comment, and after the comment.

Visible paragraph before block comment.

After the hidden region.

## 3.2 Highlights (`==...==`)

Expected behavior: a single-token highlight becomes LaTeX `\hl{}` and is coloured in the PDF (yellow with the `soul` default).

First highlight, second also marked, third end.

This ==has no closer and should appear as plain text with double equals signs.

This is **important and central word plus rest** in the sentence.

## 3.3 Lists

Expected behavior: plain Markdown lists render as normal LaTeX `itemize`/`enumerate` blocks — no NOPE-specific syntax needed. Nested items indent one level, ordered items keep their numbering.

Unordered, with a nested level:

- Write the atomic note in Obsidian as usual
- Embed it with `![[Note]]` to pull its content into the document
- Reference it with `[[Note]]` for an auto-numbered cross-reference

  - Works at any nesting depth
  - Bullets stay bullets and the order is preserved

Ordered, describing the export flow:

1. Add the matching `latex-env` frontmatter to the note
2. Provide a `caption:` wherever the environment requires one
3. Export the document to PDF through the Docker pipeline
4. Open the live preview to check the rendered result

And what happens with Checkboxes?

☐ a
☒ b
- [c] c

### Callouts

Write a callout with `> [!type] Title`. One block per type below.

**Important Notice This is a simple note callout with a title.**
The second line belongs to the same block.

**TLDR**

**Caution `latexmkrc` matters**
What happens here on the second line

**Beware Never `rm -rf *`**

**Critical Back up before a major TeX Live update.**

**Multi-line**
- First point - Second point - Third point
Another sentence here

**Code**

```
makeglossaries central_document
```

Then run `latexmk -pdf` again.

**simple info box for an unknown type!**

> Normal blockquote without a callout marker

### Figures

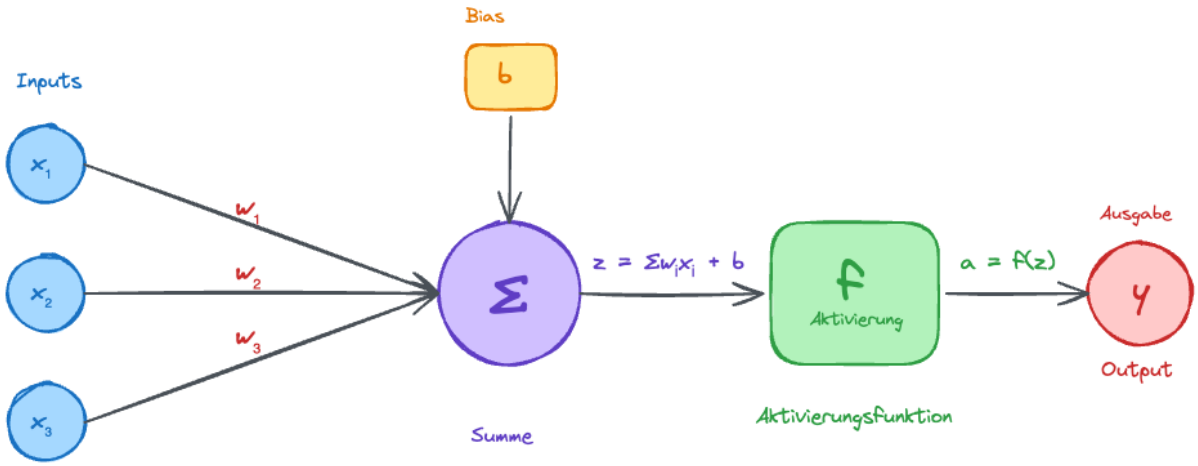


**Figure 1:** Diagram of a Neuron

**Embed with caption** As seen in Figure 1, the model has the typical structure. The reference can carry its own text, see here.

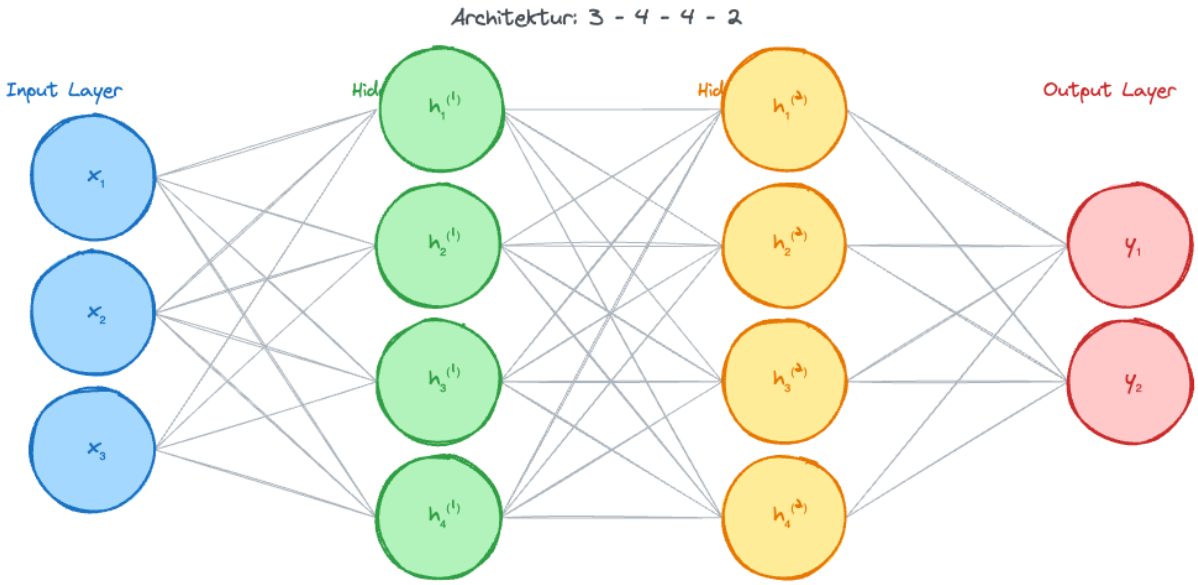


**Figure 2:** neuronales_netz.excalidraw.png

**Embed without caption** Reference: Figure 2.

**Wikilink fallback** A wikilink to a non-embedded image passes through as plain text.

neuron.excalidraw

does-not-exist.png

**Image widths**

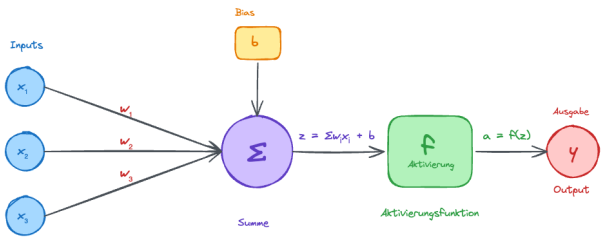


**Figure 3:** Percent (w=50%)

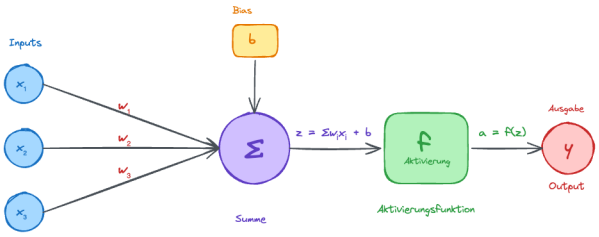


**Figure 4:** Pixels (w=300px)

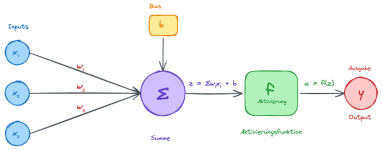

**Figure 5:** Centimeters (w=5cm)

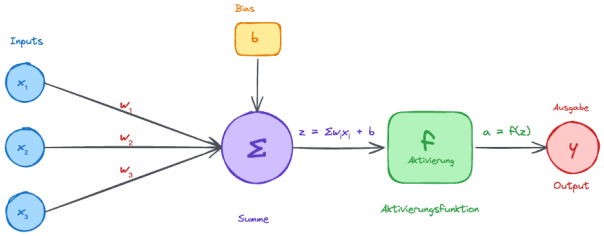


**Figure 6:** Millimeters (w=80mm)

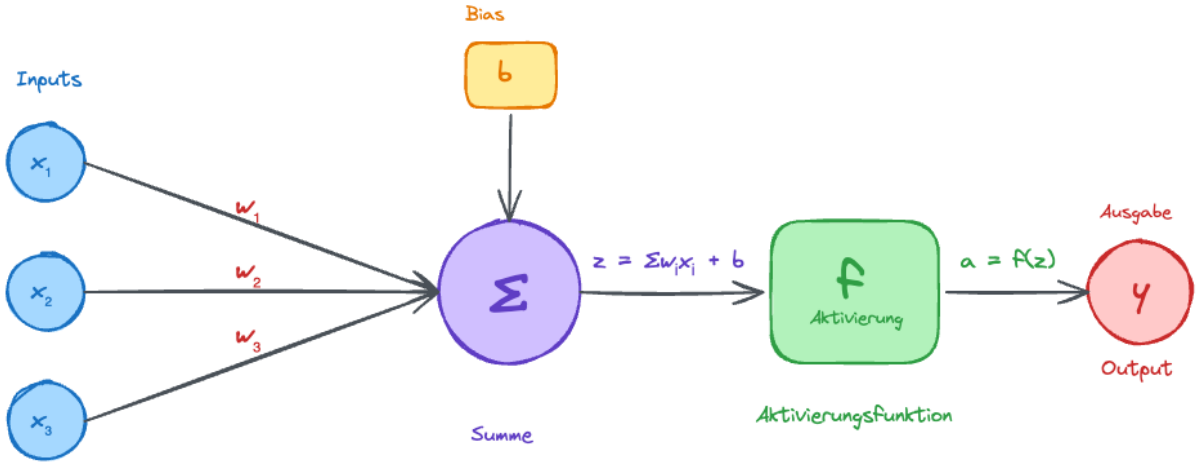


**Figure 7:** No width hint (natural size)

### 3.4 Mermaid

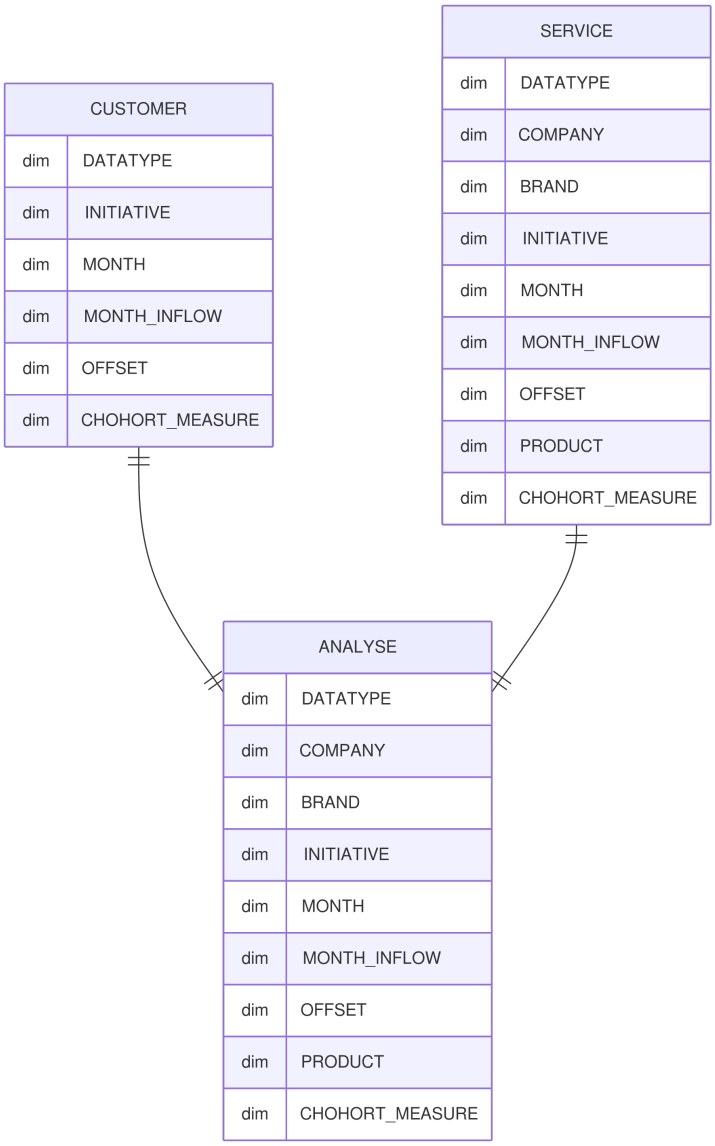


**Figure 8:** The example representation from the Mermaid documentation

As shown in Figure 8, you can also refer to Mermaid environments!

#### Glossary

Neural networks rank among the most influential algorithms in Artificial Intelligence (AI). They drive breakthroughs in Computer Vision, Natural Language Processing (NLP), Speech Recognition and

countless applications. Today's Deep Neural Network (DNN) power systems such as Transformer and Convolutional Neural Network (CNN).

#### Footnotes

A footnote marker in running text[1], with the definition anywhere in the document.

Several footnotes[2], order in the body does not matter[3].

Reference the same footnote twice[4].

An inline footnote [5].

#### LaTeX Environments

Source note `Pythagorean-Theorem.md` carries `latex-env: theorem` and `latex-short: Pythagoras`.

**Theorem 3.1** (Pythagoras)**.** *In any right triangle with legs $a$ and $b$ and hypotenuse $c$:*

$$a^2 + b^2 = c^2$$

*It is one of the oldest known theorems in mathematics.*

Reference it with a wikilink. From Theorem 3.1 the statement follows.

Override the link text: by the Pythagorean theorem the statement follows.

### 3.5 Tables

#### Table Numbering Test

This document tests how tables from atomic notes are embedded as numbered floats. Convention: a single-source caption — the caption lives in the table note's frontmatter as `caption: "..."`. There is no pipe override in the embed tag and no Pandoc native-caption fallback.

[1] A simple numeric footnote.
[2] Schmidt, J. (2020): *Title of the Source*, Publisher, p. 42.
[3] Machine Learning is understood here as a collective term.
[4] Schmidt, J. (2020): *Title of the Source*, Publisher, p. 42.
[5] directly at the sentence, no separate definition needed

### First Table

Source note `Table-Comparison.md` has `latex-env: table` and `caption: "Comparison of implementation variants"` in the frontmatter.

**Table 1:** Comparison of implementation variants

| Criterion | Variant A | Variant B |
|---|---|---|
| Cost | low | high |
| Maintenance effort | medium | low |
| Scalability | limited | excellent |

As Table 1 shows, variant B is superior on several dimensions. The reference also works with custom text — for example here — and stays clickable as a hyperref.

### Second Table

Demonstrates the counter increment (should become “Table 2”):

**Table 2:** Project phases overview

| Phase | Duration | Status |
|---|---|---|
| Analysis | 2 weeks | done |
| Implementation | 6 weeks | in progress |
| Acceptance | 1 week | open |

See Table 2 for the rough timeline.

Table-Does-Not-Exist

**Table 3:** Example table (longtable off)

| No. | Component | Owner | Status | Priority | Effort | Risk | Description |
|---|---|---|---|---|---|---|---|
| 1 | Requirements | A. Meier | open | high | 2 d | low | Capture the functional requirements. |
| 2 | Architecture | B. Schulz | in progress | medium | 5 d | medium | Align with the stakeholders. |
| 3 | Data model | C. Roth | done | low | 8 d | high | Assess potential technical risks. |
| 4 | Backend | D. Kern | blocked | high | 13 d | low | Implementation including unit tests. |
| 5 | Frontend | E. Lang | in review | medium | 3 d | medium | Reviewed by two developers. |
| 6 | Interface | F. Vogt | open | low | 2 d | high | Integrate against third-party systems. |
| 7 | Test | A. Meier | in progress | high | 5 d | low | Capture the functional requirements. |
| 8 | Deployment | B. Schulz | done | medium | 8 d | medium | Align with the stakeholders. |
| 9 | Monitoring | C. Roth | blocked | low | 13 d | high | Assess potential technical risks. |
| 10 | Documentation | D. Kern | in review | high | 3 d | low | Implementation including unit tests. |
| 11 | Security | E. Lang | open | medium | 2 d | medium | Reviewed by two developers. |
| 12 | Release | F. Vogt | in progress | low | 5 d | high | Integrate against third-party systems. |

As shown in Table 3.

**Table 4:** Example table (longtable on)

| No. | Component | Owner | Status | Priority | Effort | Risk | Description |
|---|---|---|---|---|---|---|---|
| 1 | Requirements | A. Meier | open | high | 2 d | low | Capture the functional requirements. |
| 2 | Architecture | B. Schulz | in progress | medium | 5 d | medium | Align with the stakeholders. |
| 3 | Data model | C. Roth | done | low | 8 d | high | Assess potential technical risks. |
| 4 | Backend | D. Kern | blocked | high | 13 d | low | Implementation including unit tests. |
| 5 | Frontend | E. Lang | in review | medium | 3 d | medium | Reviewed by two developers. |
| 6 | Interface | F. Vogt | open | low | 2 d | high | Integrate against third-party systems. |

| No. | Component | Owner | Status | Priority | Effort | Risk | Description |
|---|---|---|---|---|---|---|---|
| 7 | Test | A. Meier | in progress | high | 5 d | low | Capture the functional requirements. |
| 8 | Deployment | B. Schulz | done | medium | 8 d | medium | Align with the stakeholders. |
| 9 | Monitoring | C. Roth | blocked | low | 13 d | high | Assess potential technical risks. |
| 10 | Documentation | D. Kern | in review | high | 3 d | low | Implementation including unit tests. |
| 11 | Security | E. Lang | open | medium | 2 d | medium | Reviewed by two developers. |
| 12 | Release | F. Vogt | in progress | low | 5 d | high | Integrate against third-party systems. |

As shown in Table 4.

### Equations

Source note `Navier-Stokes.md` carries `latex-env: equation` and one `$$...$$` block.

$$\begin{gathered}\rho\left(\frac{\partial \vec{u}}{\partial t}+(\vec{u}\cdot\nabla)\vec{u}\right)=-\nabla p+\mu\nabla^2\vec{u}+\vec{f}\\ \nabla\cdot\vec{u}=0\end{gathered} \tag{1}$$

Reference it: as in Equation 1, momentum couples the pressure gradient to friction. Custom text works too, see the conservation law.

$$e^{i\pi}+1=0 \tag{2}$$

From Equation 2 the link between the constants follows.

$$\begin{gathered}\rho\left(\frac{\partial \vec{u}}{\partial t}+(\vec{u}\cdot\nabla)\vec{u}\right)=-\nabla p+\mu\nabla^2\vec{u}+\vec{f}\\ \nabla\cdot\vec{u}=0\end{gathered} \tag{3}$$

Embed the same note again. The reference points to the first embed, see Equation 1.

A wikilink to a non-embedded note passes through as plain text: Equation-Does-Not-Exist.

### Citations

Cite a key from the `.bib`: the Transformer replaces recurrence with pure attention (Vaswani et al. 2023).

Suppress the author with `[-@key]`: Vaswani et al. show (2023) that attention alone suffices.

Add a page with `[@key, p. 42]`: the attention formula sits in (Vaswani et al. 2023, 4).

Give several sources at once: the concept has multiple roots (Vaswani et al. 2023, 1; 2023, 2).

**Citation notes (`citekey`)** Link a note that carries a `citekey`: tracing JITs specialize dynamic-language code at runtime (Gal et al. 2009).

A minimal note with `citekey`, `author`, `title` and `year` also works (Rumelhart et al. 1986).

A link with a heading/block suffix still resolves the citekey, not the suffix as text: (Gal et al. 2009).

**Bibliography**

Gal, Andreas, Brendan Eich, Mike Shaver, et al. 2009. “Trace-Based Just-in-Time Type Specialization for Dynamic Languages.” *PLDI ’09: Proceedings of the 2009 ACM SIGPLAN Conference on Programming Language Design and Implementation*, 465–78. https://doi.org/10.1145/1542476.1542528.

Rumelhart, David E., Geoffrey E. Hinton, and Ronald J. Williams. 1986. *Learning Representations by Back-Propagating Errors*.

Vaswani, Ashish, Noam Shazeer, Niki Parmar, et al. 2023. *Attention Is All You Need*. arXiv:1706.03762. arXiv. https://doi.org/10.48550/arXiv.1706.03762.

## 4 Unsupported Characters

One symbol per stripped category — after export each symbol disappears (pdflatex can’t render it) and a notice reports how many were removed. The labels stay.

- Emoji & pictographs (U+1F000–1FFFF):
- Misc symbols & dingbats (U+2600–27BF):
- Misc symbols & arrows (U+2B00–2BFF):
- Regional indicator / flag (U+1F1E6–1F1FF):
- Variation selector (U+FE00–FE0F):
- Zero-width joiner (U+200D):
- Combining enclosing keycap (U+20E3): 1

## Abkürzungen

**AI** Artificial Intelligence.

**CNN** Convolutional Neural Network.

**DNN** Deep Neural Network.

**NLP** Natural Language Processing.

## Glossar

**Computer Vision** Field of AI that lets machines capture, interpret and act on visual information from images and video..

**Speech Recognition** Technology that converts spoken language into machine-readable text, often as a first step toward further language analysis..

**Transformer** Neural network architecture based on self-attention, now the standard for language processing and modern language models..