

# How to use MarpX special tags

Paulo Cunha

2025

# Header

---

title: Marp Example - Gödel  
author: Paulo Cunha  
description: Canonical use of marpx theme  
keywords: [Marp, MarpX, Gödel, Paulo Cunha]

header: Königsberg, 5-7 September, 1930  
footer: "[Back to the outline](#3)"

marp: true  
theme: gödel  
transition: fade

size: 16:9  
lang: en  
math: mathjax  
paginate: true

---



# Über formal unentscheidbare Sätze der Principia Mathematica und verwandter Systeme

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On Formally Undecidable Propositions

**Kurt Gödel**

Königsberg, 5–7 September, 1930

Second Conference on the Epistemology of the Exact Sciences

# <!-- \_class: title-academic -->

```
<!-- _class: title-academic -->
<!-- _backgroundColor: white -->

![bg left:33%](./<locaton>/godel-young.jpg)

<div class="title"      > Über formal unentscheidbare
                        Sätze der Principia Mathematica und verwandter Systeme </div>
<div class="subtitle"   > On Formally Undecidable Propositions </div>
<div class="author"     > Kurt Gödel </div>
<div class="date"       > Königsberg, 5-7 September, 1930 </div>
<div class="organization"> Second Conference on the Epistemology of the Exact Sciences </div>

---
```

# Über formal unentscheidbare Sätze der Principia Mathematica und verwandter Systeme

On Formally Undecidable Propositions

2025

# <!-- \_class: title -->

```
<!-- _class: title -->
```

```
# Über formal unentscheidbare Sätze der Principia Mathematica und verwandter Systeme
```

```
## On Formally Undecidable Propositions
```

# Contents

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- 1. Transition Slide
- 2. Normal Slide
- 3. Headers
- 4. Images
- 5. Animations and Videos
- 6. Lists
- 7. Tables
- 8. Mathematics in LaTeX
- 9. Code
- 10. Quotes
- 11. Callouts
- 12. References, Appendix & Credits

# <!-- \_class: toc -->

```
<!-- _class: toc -->
```

- 0. *[Title](#1)*
- 1. *[Transition Slide](#4)*
- 2. *[Normal Slide](#5)*
- 3. *[Headers](#6)*
- 4. *[Images](#7)*
- 5. *[Animations and Videos](#15)*



# Transition Slide

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Additional Text about what's ahead

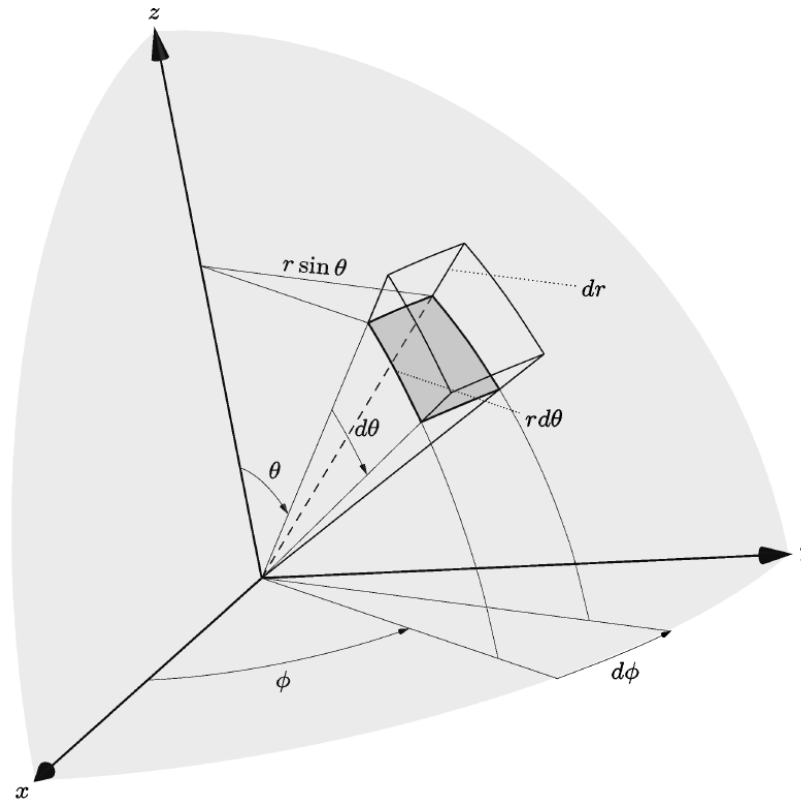
# <!-- \_class: chapter -->

```
<!-- _class: chapter -->
```

```
# Transition Slide
```

```
## Additional Text about what's ahead
```

# One image slide



**Fig. 11.1:** Object defined in terms of spherical coordinates.

# <!-- \_class: white-slide -->

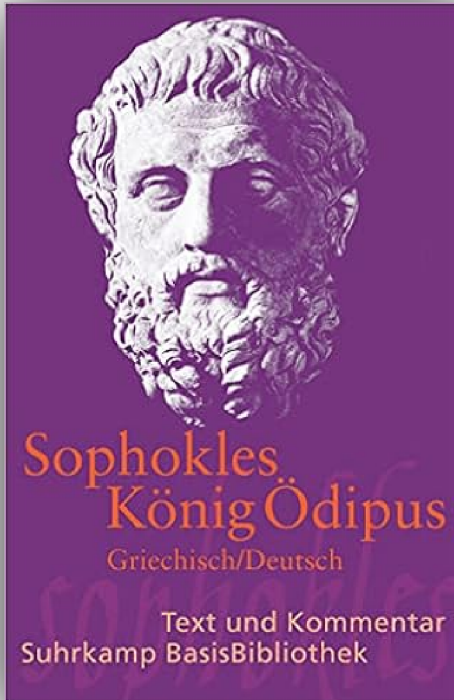
```
<!-- _class: white-slide -->

# One image slide

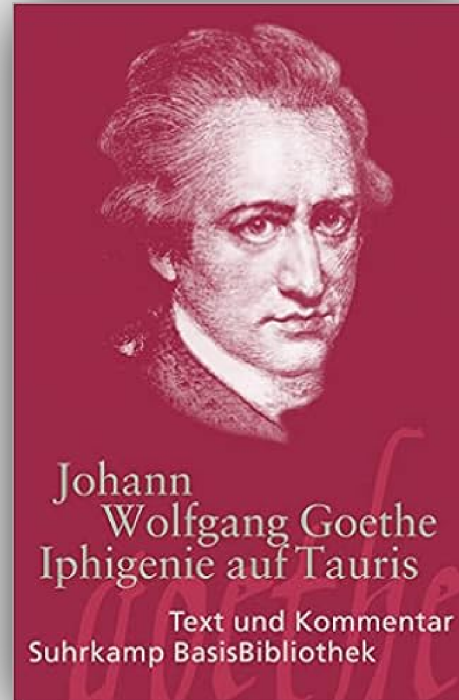
![h:400 center](../<location>/puebk.png)

<figcaption>Object defined in terms of spherical coordinates.</figcaption>
or
<br><span class="figcaption">Object defined in terms of spherical coordinates.</span>
```

# Images fit into columns



**Fig. 13.1:** Sophokles, Suhrkamp (2015).



**Fig. 13.2:** Göthe, Suhrkamp (2011).



**Fig. 13.3:** Heine, Suhrkamp (2011).

# <div class="multicolumn" align="center">

# Images fit into columns

```
<div class="multicolumn" align="center"><div>
```

```
[![h:350px drop-shadow:4px,5px,15px,#010101]  
(./assets/images/books/book004.jpg)](https://amzn.eu/d/fQDOCSF)
```

```
<figcaption>Sophokles, Suhrkamp (2015).</figcaption>
```

```
</div><div>
```

```
[![h:350px drop-shadow:4px,5px,15px,#010101]  
(./assets/images/books/book003.jpg)](https://amzn.eu/d/bxExVnT)
```

```
<figcaption>Göthe, Suhrkamp (2011).</figcaption>
```

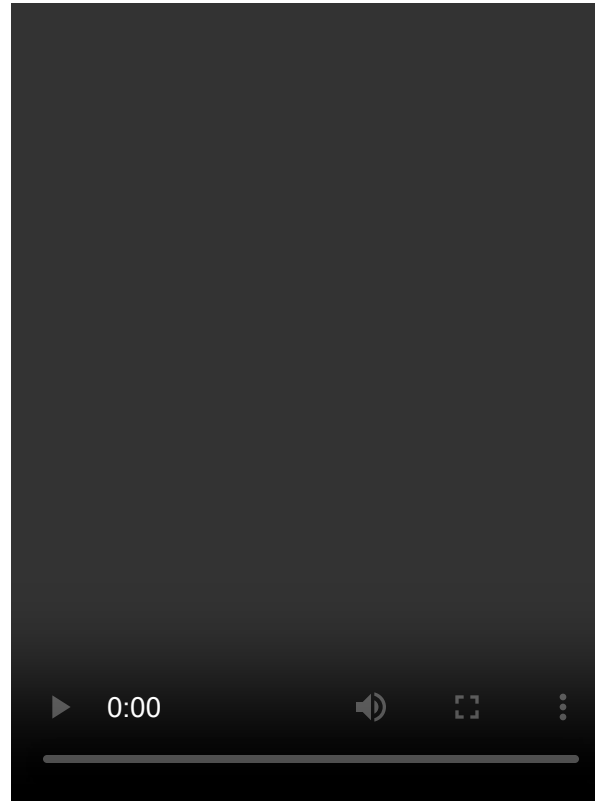
```
</div><div>
```

```
[![h:350px drop-shadow:4px,5px,15px,#010101]  
(./assets/images/books/book006.jpg)](https://amzn.eu/d/f3z3qfe)
```

```
<figcaption>Heine, Suhrkamp (2011).</figcaption>
```

```
</div></div>
```

# Video



**Fig. 15.1:** Video playing in Marp available only in html export.

# <video controls height="400px"></video>

```
<!-- _class: white-slide -->  
<!-- _footer: Vídeo de Nikolay -->
```

## # Video

```
<center>
```

```
<video controls height="400px">  
  <source src="https://cunhapaulo.github.io/marpx/videos/sample01.mp4">  
</video>
```

```
<figcaption>Video playing in Marp available only in html export.
```

```
</center>
```



# Renaissance painters

Painter	Country	Birth Year	Death Year	Most Famous Work
Albrecht Dürer	Germany	1471	1528	<i>Melencolia I</i>
Leonardo da Vinci	Italy	1452	1519	<i>Mona Lisa</i>
Michelangelo	Italy	1475	1564	<i>Sistine Chapel Ceiling</i>
Raphael	Italy	1483	1520	<i>The School of Athens</i>
Titian	Italy	~1488	1576	<i>Assumption of the Virgin</i>

**Table 17.1:** Renowned Renaissance painters with biographical data and masterpieces (alphabetical order).

# <video controls height="400px"></video>

## # Renaissance painters

<center>

Painter	Country	Birth Year	Death Year	Most Famous Work
-----	:-----:	:-----:	:-----:	-----
Albrecht Dürer	Germany	1471	1528	<i>_Melencolia I_</i>
Leonardo da Vinci	Italy	1452	1519	<i>_Mona Lisa_</i>
Michelangelo	Italy	1475	1564	<i>_Sistine Chapel Ceiling_</i>
Raphael	Italy	1483	1520	<i>_The School of Athens_</i>
Titian	Italy	~1488	1576	<i>_Assumption of the Virgin_</i>

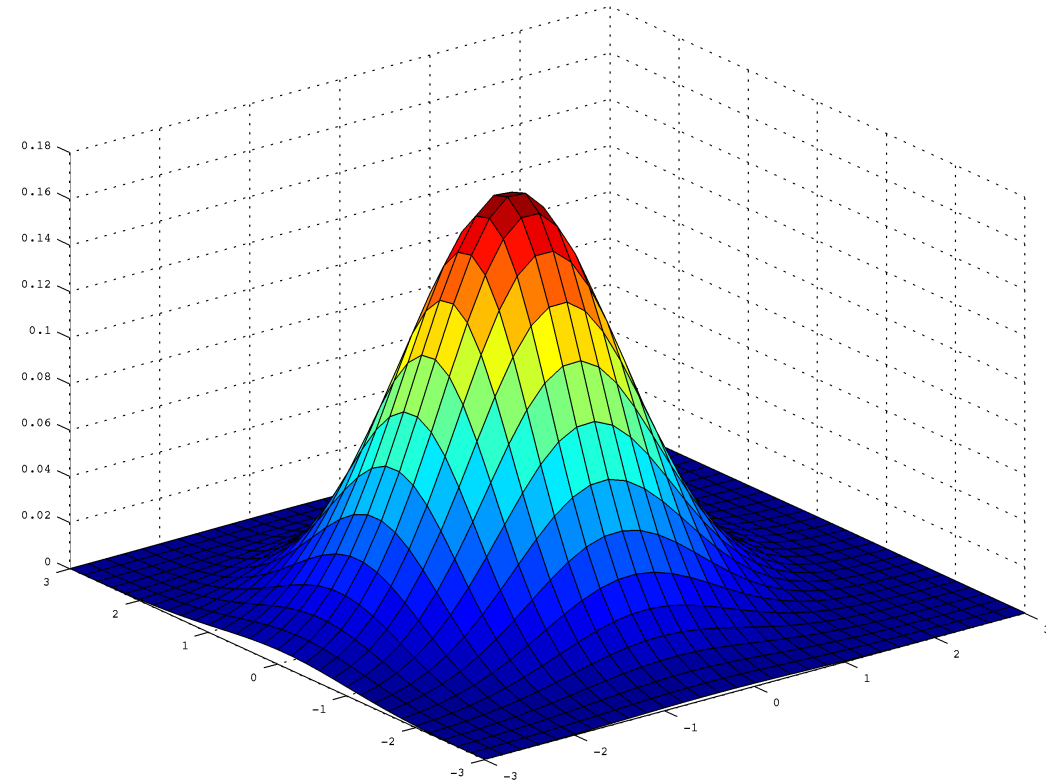
<tabcaption>Renowned Renaissance painters with biographical data and masterpieces (alphabetical order).</tabcaption>

<center>

# Probability Distribution (1)

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} \exp\left(-\frac{(x - \mu)^2}{2\sigma^2}\right)$$

**Fig. 19.1:** Normal Distribution (Gaussian).



**Fig. 19.2:** Multivariate Normal Distribution.

# LaTeX

```
<!-- _class: white-slide -->

# Probability Distribution (1)

<div class="multicolumn vcenter"><div>

$$
f(x) = \frac{1}{\sigma \sqrt{2\pi}} \exp\left(-\frac{(x - \mu)^2}{2\sigma^2}\right)
$$

<figcaption>Normal Distribution (Gaussian).</figcaption>

</div><div>

![w:650](./assets/images/graphs/distribution02.png)

<figcaption>Multivariate Normal Distribution.</figcaption>

</div></div>
```

# Electromagnetic Field (Differential form)

Below, in modern vector notation, in *differential form*, are Maxwell's four equations governing the **electromagnetic field**.

$$\nabla \cdot \mathbf{E} = \frac{\rho}{\epsilon_0}$$

(Gauss's law)

$$\nabla \cdot \mathbf{B} = 0$$

(No magnetic monopoles)

$$\nabla \times \mathbf{E} = - \frac{\partial \mathbf{B}}{\partial t}$$

(Faraday-Lenz law)

$$\nabla \times \mathbf{B} = \mu_0 \mathbf{J} + \mu_0 \epsilon_0 \frac{\partial \mathbf{E}}{\partial t}$$

(Ampere-Maxwell Law)

# LaTeX

# Electromagnetic Field (Differential form)

Below, in modern vector notation, in differential form,  
are Maxwell's four equations governing the `electromagnetic field`.

```
$$  
\begin{align}  
\nabla \cdot \mathbf{E} &= \frac{\rho}{\epsilon_0} \\ &\&\text{(Gauss's law)} \\ \nabla \cdot \mathbf{B} &= 0 \\ &\&\text{(No magnetic monopoles)} \\ \nabla \times \mathbf{E} &= -\frac{\partial \mathbf{B}}{\partial t} \\ &\&\text{(Faraday-Lenz law)} \\ \nabla \times \mathbf{B} &= \mu_0 \mathbf{J} \\ &+ \mu_0 \epsilon_0 \frac{\partial \mathbf{E}}{\partial t} \\ &\&\text{(Ampere-Maxwell Law)} \\ \end{align}  
$$
```

"There is an **increasing** demand of current information systems to incorporate the use of a higher degree of formalism in the development process. **Formal Methods** consist of a set of tools and techniques based on mathematical model and formal logic that are used to **specify and verify** requirements and designs for hardware and software systems."

<!-- \_class: quote dark -->

<!-- \_class: quote dark -->

"There is an **increasing** demand of current information systems to incorporate the use of a higher degree of formalism in the development process. **Formal Methods** consist of a set of tools and techniques based on mathematical model and formal logic that are used to **specify and verify** requirements and designs for hardware and software systems."



# Callouts

## Info

Text for information with  
**Markdown** formatting.

```
<div class="callout">
```

### # Info

Text for information with `<br>` **Markdown** formatting.

```
</div>
```

## Danger

Another text with  
**Markdown** formatting.

```
<div class="callout danger">
```

### # Danger

Another text with `<br>` **Markdown** formatting.

```
</div>
```

# References

1. AMERIKS, Karl; HÖFFE, Otfried. **Kant's Moral and Legal Philosophy**. tradução: Nicholas Walker. Cambridge, Massachusetts: Cambridge University Press, 2009-. ISSN 1878-6847.(The German Philosophical Tradition).
2. ARISTOTELES. **Nikomachische Ethik**. Berlin: Akademie Verlag, 2010. (Klassiker Auslegen).v. 2
3. CASSIRER, Ernst. **The Myth of the State**. New Haven, USA: Yale University Press, 1946.
4. EPSTEIN, Richard L.; CARNIELLI, Walter A. **Computability: Computable Functions, Logic, and the Foundations of Mathematics**. 3. ed. Socorro, New Mexico, USA: Advanced Reasoning Forum, 2008.
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8. HUSSERL, Edmund. **The Crisis of European Sciences and Transcendental Phenomenology**. Evanston, USA: Northwestern University Press, 1970.
9. KANT, Immanuel. **Kritik der Praktischen Vernunft**. Berlin: Akademie Verlag, 2002. (Klassiker Auslegen).v. 26
10. KANT, Immanuel. **Groundwork of the Metaphysics of Morals: A German-English Edition**. tradução: Mary Gregor; Jens Timmermann. Cambridge, UK: Cambridge University Press, 2011.
11. KARDEC, Allan. **Das Buch der Geister**. Übersetzung: Edith Burkhard. 3. ed. Brasília, DF: Internationaler Spiritistischer Rat, 2011.
12. PLATO. **Plato Republic**. Tradução: C. D. C. Reeve. Indianapolis, IN, USA: Hackett Publishing Company, 2004.

# <!-- \_class: references -->

```
<!-- _class: references -->
```

```
# References
```

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1. AMERIKS, Karl; HÖFFE, Otfried. ***Kant's Moral and Legal Philosophy***. tradução: Nicholas Walker. Cambridge, Massachusetts: Cambridge University Press, 2009-. ISSN 1878-6847. (The German Philosophical Tradition).
2. ARISTOTELES. ***Nikomachische Ethik***. Berlin: Akademie Verlag, 2010. (Klassiker Auslegen).v. 2
3. CASSIRER, Ernst. ***The Myth of the State***. New Haven, USA: Yale University Press, 1946.

```
</div><div>
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7. HEIDEGGER, Martin. ***Sein und Zeit***. 11. ed. Tübingen: Max Niemeyer Verlag, 1967.
8. HUSSERL, Edmund. ***The Crisis of European Sciences and Transcendental Phenomenology***. Evanston, USA: Northwestern University Press, 1970.
9. KANT, Immanuel. ***Kritik der Praktischen Vernunft***. Berlin: Akademie Verlag, 2002. (Klassiker Auslegen).v. 26

```
</div></div>
```