# LaTeX Template

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# Contents

# 1 Tutorial

## 1.1 LaTeX Set-Up

## 1.2 Commands

```
\section{}
\subsection{}
\subsubsection{}

\section*{}
\subsection*{}
\subsubsection*{}
\subsubsubsection{}

\paragraph{}
\subparagraph{}
```

# 2 Features

## 2.1 Tables

| Header 1 | Header 2 | Header 3 |
|---|---|---|
| Row 1 Col 1 | Row 1 Col 2 | Row 1 Col 3 |

Table 1:

## 2.2 Shortcuts

## 2.3 Snippets

# 3 Code IDE

## 3.1 Java

Dies ist ein Java code.

```java
public class Stock {
    private String symbol;
    private double sharePrice;

    public Stock(String sym, double price) {
        this.symbol = sym;
        this.sharePrice = price;
    }

    public Stock(String sym) {
        this(sym, 0.0); // constructor chaining
    }
}
```

Listing 1: Eine verbesserte Darstellung der Java-Klasse ‘Stock‘.

## 3.2 Python

```python
    class DataAnalyzer:
    def __init__(self, data_points):
        self.data_points = data_points

    def calculate_average(self):
        """Calculates the average of the data points."""
        if not self.data_points:
            return 0
        return sum(self.data_points) / len(self.data_points)

# Example usage
analyzer = DataAnalyzer([10, 20, 30, 40, 50])
avg = analyzer.calculate_average()
print(f"The average is: {avg}")
```

Listing 2: Ein einfaches Beispiel für eine Python-Klasse.

öajsdföljasöl **Example:**

- TEstjölaskdfjalsjfasöld
- öasldkfjölasdkjföalkdsjföadlskfj
- asödfkjaölsdf

ölaksdjfölkölas
öajsdföljasöl **Example:**

1. TEstjölaskdfjalsjfasöld
2. öasldkfjölasdkjföalkdsjföadlskfj
3. asödfkjaölsdf

ölaksdjfölkölas

---

## 3.3 Servus "Obst"

### 3.3.1 Griasdi

#### 3.3.1.1 Test

# 4 Test

| Header1 | Header2 | Header3 |
|---|---|---|
| Row1 Col1 | Row1 Col2 | Row1 Col3 |

| Header1 | Header2 | Header3 |
|---|---|---|
| Row1 Col1 | Row1 Col2 | Row1 Col3 |

**Theorem 1**

Lorem ipsum, ich dreh den Sack um.

**Title**

Lorem ipsum, ich dreh den Sack um.

**Title**

aslkdjfaölskdjföajdk

**Title**

xcvbnm,sdajfkasdf

**Title**

asjfölkjasdlf

```
import numpy as np
from scipy.stats import norm

def bs_call(S0, K, r, sigma, T):
    d1 = (np.log(S0/K) + (r + 0.5*sigma**2)*T)/(sigma*np.sqrt(T))
    d2 = d1 - sigma*np.sqrt(T)
    return S0*norm.cdf(d1) - K*np.exp(-r*T)*norm.cdf(d2)
```