

Markdown to PDF Test 🕶️

This is a demonstration of `mdpdf` (<https://github.com/westrik/mdpdf>).

Markdown Elements

Links

- [Link to Google](https://www.google.com) (<https://www.google.com>)

Inline Code

You can use inline code like `console.log("Hello World")` or `const x = 42` or ``hello`` within your text.

Ordered Lists

1. First item in ordered list
2. Second item with **bold text**
3. Third item with *italic text*
4. Fourth item with `inline code`
5. Fifth item with **bold inline code**
6. 6th item with _{sub}script and ^{super}script

Task Lists

- ☐ incomplete task
- ☒ complete task

Blockquotes

This is a blockquote. It can contain multiple lines.

You can have **bold** and *italic* text in blockquotes.

You can have `inline code` too.

Nested blockquotes work as well.

Second level of nesting.

Third level of nesting.

Horizontal Rules

Above the rule.

Below the rule.

Strikethrough Text

This text has ~~strikethrough~~ formatting applied to it.

GitHub blockquote tags

 **Note**

note

 **Tip**

tip

 **Important**

important

 **Warning**

warning

 **Caution**

caution

Enhanced Code Blocks

JavaScript with Syntax Highlighting

```
// Enhanced JavaScript example
class Calculator {
  constructor() {
    this.history = [];
  }

  add(a, b) {
    const result = a + b;
    this.history.push(`${a} + ${b} = ${result}`);
    return result;
  }

  getHistory() {
    return this.history;
  }
}

const calc = new Calculator();
```

```
console.log(calc.add(5, 3)); // 8
console.log(calc.getHistory());
```

Rust with Syntax Highlighting

```
// Enhanced Rust example
```

```
use std::collections::HashMap;
```

```
#[derive(Debug)]
```

```
struct Cache<K, V> {
    data: HashMap<K, V>,
    max_size: usize,
}
```

```
impl<K, V> Cache<K, V>
```

```
where
```

```
    K: std::hash::Hash + Eq + Clone,
```

```
    V: Clone,
```

```
{
```

```
    fn new(max_size: usize) -> Self {
```

```
        Self {
```

```
            data: HashMap::new(),
```

```
            max_size,
```

```
        }
```

```
    }
```

```
    fn insert(&mut self, key: K, value: V) -> Option<V> {
```

```
        if self.data.len() >= self.max_size {
```

```
            // Remove oldest entry (simple implementation)
```

```
            if let Some(old_key) = self.data.keys().next().cloned() {
```

```
                self.data.remove(&old_key);
```

```
            }
```

```
        }
```

```
        self.data.insert(key, value)
```

```
    }
```

```
    fn get(&self, key: &K) -> Option<&V> {
```

```
        self.data.get(key)
```

```
    }
```

```
}
```

```
fn main() {
```

```
    let mut cache = Cache::new(3);
```

```
    cache.insert("a", 1);
```

```
    cache.insert("b", 2);
```

```

cache.insert("c", 3);
cache.insert("d", 4); // This will evict "a"

println!("Cache: {:?}", cache);
}

```

Python with Syntax Highlighting

Enhanced Python example

```

from typing import List, Optional, Dict, Any
from dataclasses import dataclass
from datetime import datetime
import json

```

@dataclass

class User:

```

    id: int
    name: str
    email: str
    created_at: datetime
    preferences: Dict[str, Any]

```

```

def to_dict(self) -> Dict[str, Any]:
    return {
        'id': self.id,
        'name': self.name,
        'email': self.email,
        'created_at': self.created_at.isoformat(),
        'preferences': self.preferences
    }

```

@classmethod

```

def from_dict(cls, data: Dict[str, Any]) -> 'User':
    return cls(
        id=data['id'],
        name=data['name'],
        email=data['email'],
        created_at=datetime.fromisoformat(data['created_at']),
        preferences=data['preferences']
    )

```

class UserManager:

```

    def __init__(self):
        self.users: List[User] = []

```

```

def add_user(self, user: User) -> None:
    self.users.append(user)

def find_by_email(self, email: str) -> Optional[User]:
    return next((u for u in self.users if u.email == email), None)

def export_to_json(self, filename: str) -> None:
    with open(filename, 'w') as f:
        json.dump([u.to_dict() for u in self.users], f, indent=2)

# Usage example
manager = UserManager()
user = User(
    id=1,
    name="John Doe",
    email="john@example.com",
    created_at=datetime.now(),
    preferences={"theme": "dark", "notifications": True}
)
manager.add_user(user)
print(f"User: {user}")

```

Mixed Content Examples

Lists with Various Elements

- Regular list item
- Item with **bolded** text
- Item with *italicized* text
- Item with inline codeblocks
- Item with a [link to GitHub](https://github.com) (https://github.com)[with URLs displayed]
- Item with a **bold link and italic link to GitHub** (https://github.com)
- En-dash & em-dash (-- becomes –, --- becomes —)

Nested Lists

1. First level
2. Another first level that wraps all the way around to the next line because it is very long.
 - a. Second level
 - i. Third level
 - A. Fourth level
 - B. Another fourth level
 - I. Fifth level

- α' . Sixth level
 - b. Back to second level
 - i. Another third level
 - Unordered fourth level
 - c. Back to second level
 - 3. Back to first level
 - Unordered second level
 - Another unordered second level. This item also wraps around to the next line because it is very long.

Code with Comments

```
// This is a comment
const greeting = "Hello, World!"; // Inline comment
console.log(greeting);

/*
  Multi-line comment
  explaining complex logic
*/
function complexFunction() {
  // TODO: Implement this function
  return null;
}
```

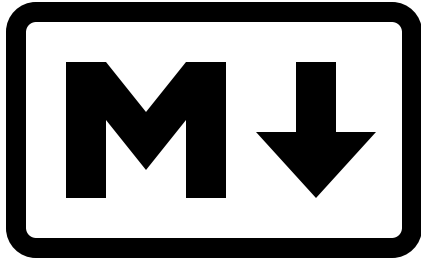
Image Support

Data URL Image

PNG:

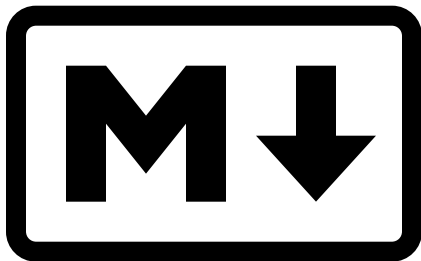


SVG:



External Image

SVG:



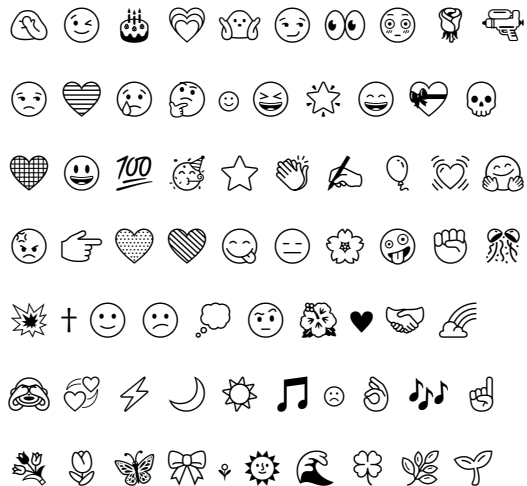
JPG (also is a link):



(<https://google.com>)

Emoji





Math

Inline math: $\sqrt{3x-1}+(1+x)^2$

Block math:

$$\left(\sum_{k=1}^n a_k b_k\right)^2 \leq \left(\sum_{k=1}^n a_k^2\right) \left(\sum_{k=1}^n b_k^2\right)$$

Math code blocks:

$$\left(\sum_{k=1}^n a_k b_k\right)^2 \leq \left(\sum_{k=1}^n a_k^2\right) \left(\sum_{k=1}^n b_k^2\right)$$

Tables

Header 1	Header 2	Header 3
Cell 1A	Cell 1B	Cell 1C
Cell 2A	Cell 2B	Cell 2C
Cell 3A	Cell 3B	Cell 3C

Left-aligned	Center-aligned	Right-aligned
Left	Center	Right
Text	Bold	<i>Italic</i>

Definition list

Term 1 Definition 1

Term 2 Definition 2

Footnotes

Footnote referenced [¹].

[^1]: footnote defined

RTL

זוהי דוגמה לטקסט מימין לשמאל

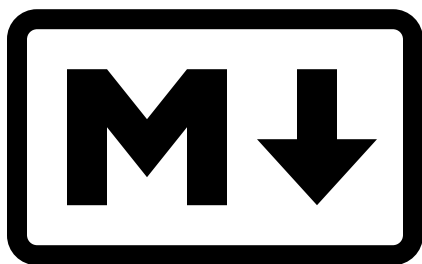
هذا بعض الأمثلة على النص من اليمين إلى اليسار

שלום עולם hello world مرحبا بالعالم

مرحبا بالعالم

שלום עולם

[דוגמה דוט קום](http://example.com) (<http://example.com>)



HTML Rendering

This document tests various HTML elements and their conversion to Typst.

Basic Formatting

This is a **bold paragraph** with *italic text* and underlined content.

Here's some ~~strikethrough text~~ and ~~another strikethrough~~.

Headings

HTML Heading 1

HTML Heading 2

HTML Heading 3

HTML Heading 4

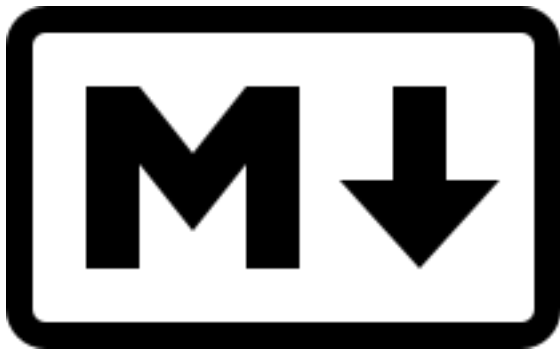
HTML Heading 5

HTML Heading 6

Links and Images

Here's a [simple link](#) and a [link with target](#).

And an image:



Code Elements

Inline code: `println!("Hello, world!");`

```
fn main() {  
    println!("This is a code block");  
    let x = 42;  
    println!("x = {}", x);  
}
```

Lists

Unordered List

- First item with **bold text**
- Second item with *italic text*
- Third item with [a link](#)

Ordered List

- 1. First ordered item
- 2. Second ordered item
- 3. Third ordered item

Blockquotes

- This is a simple blockquote with some text.
- This is a blockquote with a citation attribute.
— <https://example.com>
- This is a blockquote with a citation attribute.
— #asdf{}

Tables

Header 1	Header 2	Header 3
Cell 1	Cell 2	Cell 3
Cell 4	Cell 5	Cell 6

Definition Lists

- Term 1** Definition for term 1
- Term 2** Definition for term 2 with **bold text**

Subscript and Superscript

Here’s some _{subscript text} and ^{superscript text}.

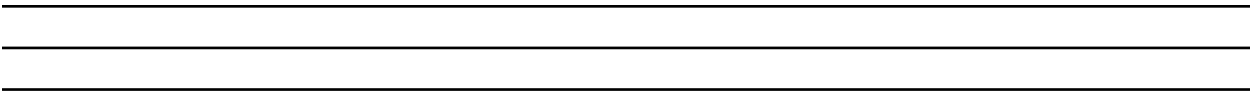
Line Breaks and Spacing

First line Second line

Third line Fourth line

Fifth line Sixth line

Horizontal Rules



HTML Entities

HTML entities: & < > " ' © ® ™

Nested Structures

This is a paragraph inside a div with **bold** *and italic* text.

- List item with [link](#)

Elements That Should Be Stripped

Video content Audio content Canvas content

Malformed HTML (Should Handle Gracefully)

<p>Unclosed paragraph Unclosed bold *Nested unclosed italic* Unclosed link

Special Characters in Attributes

[Link with query params](#) *Image: Image with "quotes" and & symbols*

Mixed Content

This paragraph has **bolded** text, *italicized* text, code-blocks, and [links](#) all mixed together.

This is a blockquote with a paragraph inside it.

- And a list item

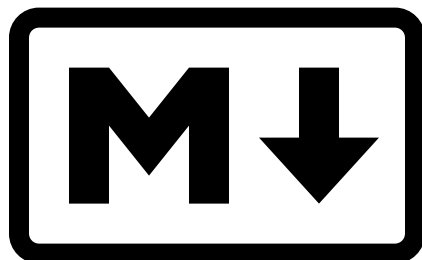
This should have quotes: “I am a quote”

Comments

Text after comment

Centered Text

This is centered



Complex Nested Structure

Section Title

Introduction paragraph with *emphasis*.

| Quote with **bold text** and a link.

Header	Another Header
Data	More data

Correctly escapes Typst syntax

@reference

@reference (http://example.com)

should be a plus + right there

#set

<label>

= this should not be a heading

this should not = be a heading

- item

/ Term: description

there should be backslash right here: \

~ there should be a tilde at the start of this line

#rect(width: 1cm)

#ad

/* block comment */

// line comment