

Animal Farm, Super long extra text just for demonstration

Book of mine

George Orwell, Wilhelm Tell

{orwell,tell}@technikum-wien.at

Thug-o-nomix

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Text - Outline

- Normal
- Structure
- Alert
- Block
- Alert Block



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Text - Structure



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Animal Farm

Mr. Jones, of the **Manor Farm**, had locked the hen-houses for the night, but was too drunk to remember to shut the popholes.

With the ring of light from his lantern dancing from side to side, he lurched across the yard, kicked off his boots at the back door, drew himself a last glass of beer from the barrel in the scullery, and made his way up to bed, where **Mrs. Jones** was already snoring.

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Text - Alert



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Animal Farm

Mr. Jones, of the **Manor Farm**, had locked the hen-houses for the night, but was too drunk to remember to shut the popholes.

With the ring of light from his lantern dancing from side to side, he lurched across the yard, kicked off his boots at the back door, drew himself a last glass of beer from the barrel in the scullery, and made his way up to bed, where **Mrs. Jones** was already snoring.

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Text - Block

The Rains of Castamere

One night, I hold on you
Ooh, ooh, ooh, ooh, ooh, you
Castamere, Castamere, Castamere, Castamere

A coat of gold, a coat of red
A lion still has claws
And mine are long and sharp, my Lord
As long and sharp as yours

And so he spoke, and so he spoke
That Lord of Castamere
And now the rains weep o'er his halls
With no one there to hear

...



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Text - Alert Block

The Rains of Castamere . . .

...

And so he spoke, and so he spoke
That Lord of Castamere
And now the rains weep o'er his halls
With no one there to hear

...



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Text - Example Block

The Rains of Castamere . . .

...

And so he spoke, and so he spoke
That Lord of Castamere
And now the rains weep o'er his halls
With no one there to hear

...



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Text - Theorem

Theorem (Infinite Sets)

There exists an infinite set.



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Text - Theorem

Theorem (Infinite Sets)

There exists an infinite set.

Corollary (Infinite Sets)

There exists an infinite set.



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Text - Theorem

Theorem (Infinite Sets)

There exists an infinite set.

Corollary (Infinite Sets)

There exists an infinite set.

Lemma (Infinite Sets)

There exists an infinite set.



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Text - Theorem

Theorem (Infinite Sets)

There exists an infinite set.

Corollary (Infinite Sets)

There exists an infinite set.

Lemma (Infinite Sets)

There exists an infinite set.

Fact (Infinite Sets)

There exists an infinite set.



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Text - Theorem

Theorem (Infinite Sets)

There exists an infinite set.

Corollary (Infinite Sets)

There exists an infinite set.

Lemma (Infinite Sets)

There exists an infinite set.

Fact (Infinite Sets)

There exists an infinite set.

Definition (Infinite Sets)

An infinite set exists.



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Text - Proof, Example



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Proof.

This follows from the axiom of infinity.

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Text - Proof, Example



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Proof.

This follows from the axiom of infinity.

Example (Natural Numbers)

The set of natural numbers is infinite.

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Enumerations - Outline

- Itemize
- Enumerate
- Description



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Enumerations - Itemize

- One
 - One
 - ▶ One



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- One
 - One
 - ▶ One
 - ▶ Two
 - Two
- Two



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- One
 - One
 - ▶ One
 - ▶ Two
 - ▶ Three
 - Two
 - Three
- Two
- Three



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Enumerations - Enumerate

1. One
 - 1.1 One
 - 1.1.1 One
 - 1.1.2 Two
 - 1.1.3 Three
 - 1.2 Two
 - 1.3 Three
2. Two
3. Three



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Enumerations - Description

Lion King of the savanna.

Tiger King of the jungle.

Still works, yey Awesome!



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Two
lines.

One line (but aligned).



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Maths - Outline

- Normal



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Appendix



The mass-energy equivalence is described by the famous equation

$$E = mc^2$$

discovered in 1905 by Albert Einstein. In natural units ($c = 1$), the formula expresses the identity

$$E = m \tag{1}$$

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Introduction

Embedded Systems (ES)-style beamer template of UAS Technikum Wien.



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Demonstration I

- References
- Itemize
- Enumerate
- Description
- Block



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Demonstration II

- Formulas
- Illustrations
- Listings
- Tables



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Demonstration - References

- Einstein [5]
- Pentz [8]
- Goossens et al. [6]
- Daniel [4]
- Knuth [7]
- [1, 2, 3]



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Demonstration - Itemize

- One



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Demonstration - Itemize

- One

- Two



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Demonstration - Itemize

- One
- Two
- Three



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Demonstration - Itemize

- One
- Two
- Three
 - Four



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Demonstration - Itemize

- One

- Two

- Three
 - Four

 - Five



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Demonstration - Itemize

- One

- Two

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 - Four
 - Five
 - Six



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Demonstration - Enumerate

1. One



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Demonstration - Enumerate

1. One

2. Two



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Demonstration - Enumerate

1. One

2. Two

3. Three



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Demonstration - Description

Ant Ameise



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Demonstration - Description

Ant Ameise

Elephant Elefant



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Demonstration - Description

Ant Ameise

Elephant Elefant

Bee Biene



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Demonstration - Description

Ant Ameise

Elephant Elefant

Bee Biene

Honey Honig



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Demonstration - Block

This is a block

Lipsum ipsum dolor sit amet, consectetur elit. Morbi ac arcu est, vel poseuere velit. In congue erat vel lorem ornare pretium.



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Demonstration - Block

This is a block

Lipsum ipsum dolor sit amet, consectetur elit. Morbi ac arcu est, vel poseuere velit. In congue erat vel lorem ornare pretium.

This is an exampleblock

Lipsum ipsum dolor sit amet, consectetur elit. Morbi ac arcu est, vel poseuere velit. In congue erat vel lorem ornare pretium.



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Demonstration - Block

This is a block

Lipsum ipsum dolor sit amet, consectetur elit. Morbi ac arcu est, vel poseuere velit. In congue erat vel lorem ornare pretium.

This is an exampleblock

Lipsum ipsum dolor sit amet, consectetur elit. Morbi ac arcu est, vel poseuere velit. In congue erat vel lorem ornare pretium.

This is an alertblock

Lipsum ipsum dolor sit amet, consectetur elit. Morbi ac arcu est, vel poseuere velit. In congue erat vel lorem ornare pretium.



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Demonstration - Equations

$$a = bq + r \quad (2)$$

where (2) is true if a and b are integers with $b \neq c$.

Maxwell's equations:

$$B' = -\nabla \times E, \quad (3a)$$

$$E' = \nabla \times B - 4\pi j, \quad (3b)$$



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$$\oint_C E \cdot dl = -\frac{d}{dt} \int_S B_n dA \quad (4)$$

Figure: Maxwell's equation - Faraday's law

$$\forall x \in X, \quad \exists y \leq \epsilon \quad (5)$$

Demonstration - Figures



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Figure: © 2018 Scott Adams, dilbert.com

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Demonstration - Figures



Figure: © 2018 Scott Adams, dilbert.com



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Demonstration - Figures



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Figure: © 2018 Scott Adams, dilbert.com

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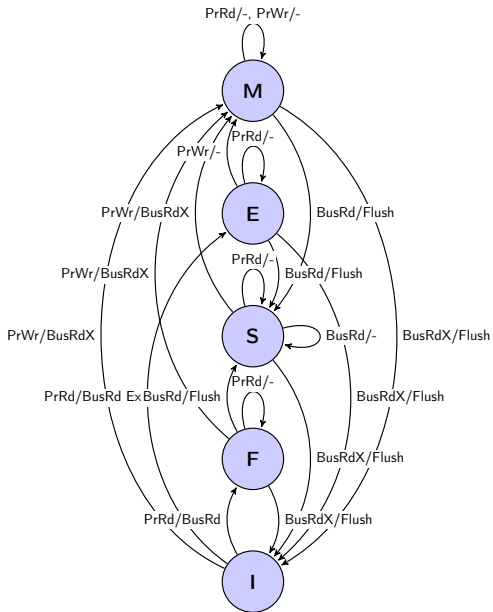
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Demonstration - Figures



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Demonstration - Figures

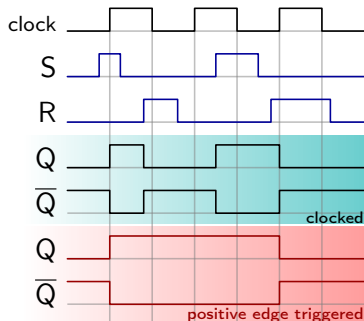


Figure: SR flip-flop timing diagram (package: timingtable)



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Demonstration - Figures

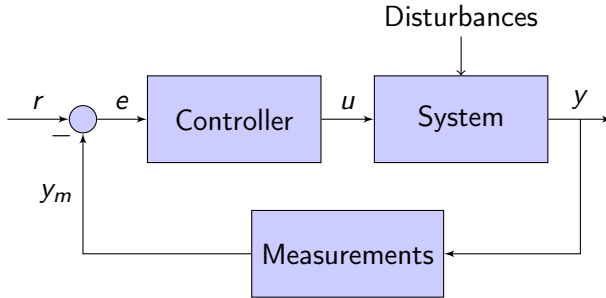


Figure: Control system principle, texample.net



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Demonstration - Listings



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```
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main(int argc, char *argv[]) {
5
6      // Print to terminal
7      printf("Hello World\n");
8
9      return EXIT_SUCCESS;
10 }
```

Listing 1: C Syntax Highlighting

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Demonstration - Tables



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Material	Symbol	E_g (eV)	Type
Elements			
diamond	<i>C</i>	5.46	i
silicon	<i>Si</i>	1.12	i
germanium	<i>Ge</i>	0.67	i
selenium	<i>Se</i>	1.74	d
IV-IV Compounds			
silicon carbide	<i>SiC3C</i>	2.36	i
silicon carbide	<i>SiC4H</i>	3.28	i
silicon carbide	<i>SiC6H</i>	3.03	i
III-V Compounds			
indium phosphide	<i>InP</i>	1.27	d
indium arsenide	<i>InAs</i>	0.355	d
gallium nitride	<i>GaN</i>	3.37	d
gallium arsenide	<i>GaAs</i>	1.42	d
aluminium nitride	<i>AlN</i>	6.2	d

Table: The bandgab of some semiconductors.

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Unit name	Unit Symbol	Dimension symbol	Quantity name	Definition ¹
metre	m	L	length	<ul style="list-style-type: none"> ■ Prior (1793): $\frac{1}{10\,000\,000}$ of the meridian through Paris between the North Pole and the Equator.^{FG} ■ Interim (1960): 1 650 763.73 wavelengths in a vacuum of the radiation corresponding to the transition between the $2p^{10}$ and $5d^5$ quantum levels of the krypton-86 atom. ■ Current (1983): The distance travelled by light in vacuum in $\frac{1}{299\,792\,458}$ s.
kilogram ²	kg	M	mass	<ul style="list-style-type: none"> ■ Prior (1793): The grave was defined as being the mass (then called weight) of one litre of pure water at its freezing point.^{FG} ■ Current (1889): The mass of a small squat cylinder of $\sim 47\text{ cm}^3$ of platinum-iridium alloy kept in the Pavillon de Breteuil, France. Also, in practice, any of numerous official replicas of it. ■ Future (2019): The kg is defined by taking the Planck constant h as exactly $6.626\,070\,15 \times 10^{-34}$ J s ($\text{J} = \text{kg m}^2 \text{s}^{-2}$), given the definitions of the m and the s.
second	s	T	time	<ul style="list-style-type: none"> ■ Prior: $\frac{1}{86\,400}$ of a day of 24 h of 60 min of 60 s. ■ Interim (1956): $\frac{1}{31\,556\,925.9747}$ of the tropical year for 1900 January 0 at 12 h ephemeris time. ■ Current (1967): The duration of 9 192 631 770 periods of the radiation corresponding to the transition between the two hyperfine levels of the ground state of the caesium-133 atom.

¹ Interim definitions are given here only when there has been a significant difference in the definition.

² Despite the prefix "kilo-", the kilogram is the base unit of mass.

^{FG} French Government (FG).

Table: SI base units

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Acronyms I

ES Embedded Systems

FG French Government

SI International System of Units

UAS University of Applied Science



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Acronyms

References

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Acronyms

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Acronyms

References