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Chapter 1

Introduction

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

1.1 First

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

1.2 Second

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain

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Chapter 2

Content

This chapter provides examples on

- Acronyms (cf. Section 2.1)
- References (cf. Section 2.2)
- Textual:
 - `itemize` (cf. Subsection 2.3.1)
 - `enumerate` (cf. Subsection 2.3.2)
 - `description` (cf. Subsection 2.3.3)
 - Theorems (cf. Subsection 2.3.4)
- Figures (cf. Section 2.4)
- Syntax Highlighting (cf. Section 2.5)
- and many more.

2.1 Acronyms

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

2.2 References

- Einstein [4]
- Pentz [7]
- Goossens et al. [5]
- Daniel [3]

- Knuth [6]
- Adams [1], Babington [2], Peter Caxton [8]

2.3 Textual

2.3.1 Itemize

- One
- Two
- Three

2.3.2 Enumerate

1. One
2. Two
3. Three

2.3.3 Description

Ant Ameise

Elephant Elefant

Bee Biene

Honey Honig

2.3.4 Theorem

Dummytext 1 *Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.*

2.4 Figures

See illustration (Figure 2.1), TikZ example (Figure 2.2), `timingtable` (2.3), and another TikZ example (Figure 2.4).



Figure 2.1: © 2018 Scott Adams, dilbert.com

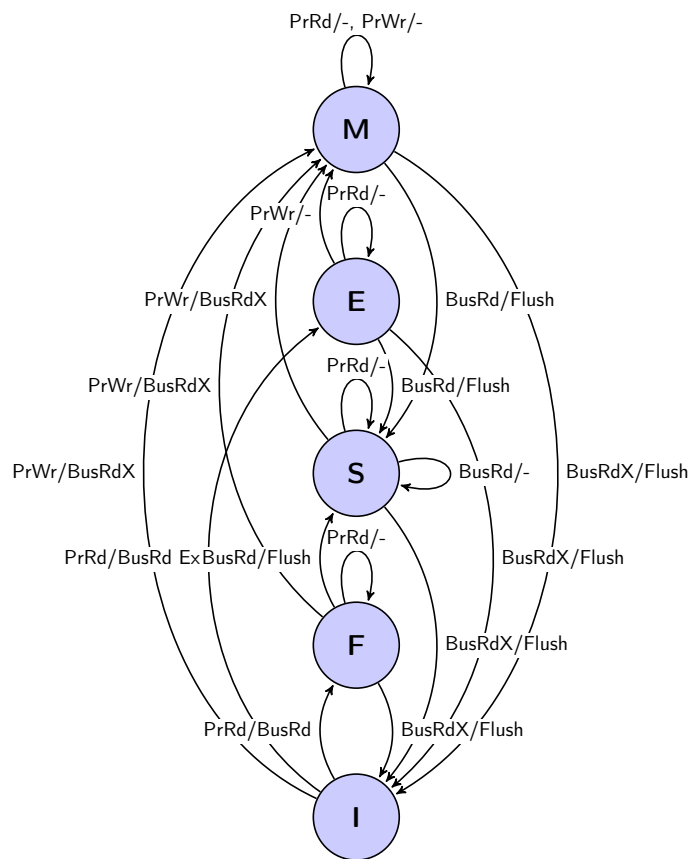


Figure 2.2: MESIF protocol, © Marek Fiser, marekfiser.cz

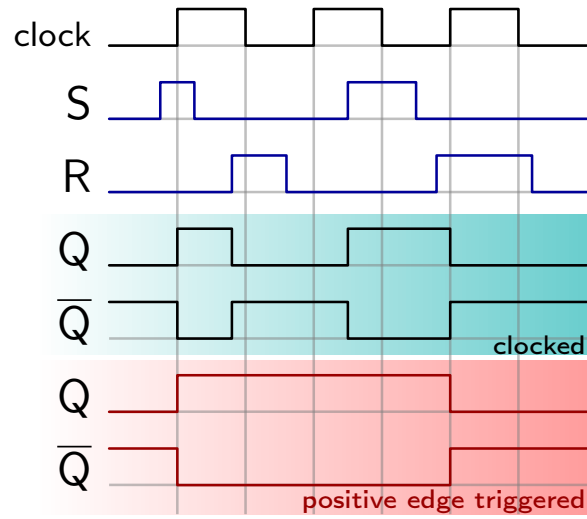
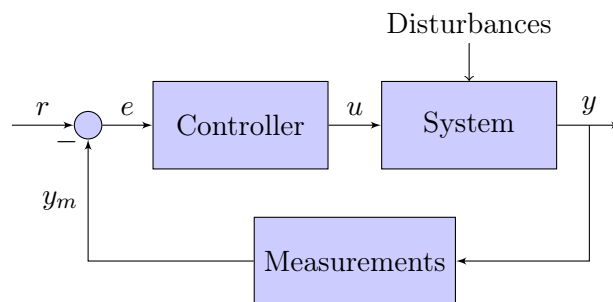


Figure 2.3: SR flip-flop timing diagram (provided by the `timingtable` package)



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 2.1: The bandgab of some semiconductors.

2.5 Source Code

Listing 2.1: C Syntax Highlighting

```
#include <stdio.h>
#include <stdlib.h>

int main(int argc, char *argv[]) {

    // Print to terminal
    printf("Hello World\n");

    return EXIT_SUCCESS;
}
```

2.6 Tables

See simple table (Table 2.1, and more advanced, rotated example table (Table 2.2)).

Unit name	Unit Symbol	Dimension symbol	Quantity name	Definition ¹
metre	m	L	length	<ul style="list-style-type: none"> • Prior (1793): $1/10\,000\,000$ 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 $1/299\,792\,458$ s.
kilogram²	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 ~ 47 cm³ 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 $6.626\,070\,15 \times 10^{-34}$ Js ($J = \text{kg m}^2 \text{s}^{-2}$), given the definitions of the m and the s.
second	s	T	time	<ul style="list-style-type: none"> • Prior: $1/86\,400$ of a day of 24 h of 60 min of 60 s. • Interim (1956): $1/31\,556\,925.9747$ 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 2.2: SI base units

Chapter 3

Résumé

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3.1 First

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3.2 Second

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain

all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

References

- [1] P. Adams, “The title of the work,” *The name of the journal*, vol. 4, no. 2, pp. 201–213, 7 1993, An optional note.
- [2] P. Babington, *The title of the work*, 3rd ed., ser. 10. The address: The name of the publisher, 7 1993, vol. 4, An optional note.
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- [8] Peter Caxton, “The title of the work,” How it was published, The address of the publisher, 7 1993, An optional note.

List of Acronyms

ES	Embedded Systems
FG	French Government
FHTW	Fachhochschule Technikum Wien
SI	International System of Units (<i>Système international (d'unités)</i>)
UAS	University of Applied Science

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