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Intel Galileo: Laboratórios

Aulas Práticas Envolvendo o Intel Galileo

27 de Outubro de 2015

Universidade de Brasília
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Capítulo 1

Chapter Heading

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Use the standard `equation` environment to typeset your equations, e.g.

$$a \times b = c, \tag{1.1}$$

```

1 void zigzag (byte *matriz, boolean acender, boolean luz){
2   /* Inicializacao das variaveis de controle */
3   linha = coluna = 0;
4   direcao = LOW;
5   if (acender == HIGH)
6     zera (matriz);
7
8   /* Varredura de toda a matriz */
9   for (indice = 0; indice < pow(tamanho, 2); indice++){
10    /* Caso esteja acendendo os LEDS */
11    if (acender == HIGH){
12      bitSet (matriz[linha], coluna);
13      envia (matriz);
14      if (luz == LOW)
15        bitClear (matriz[linha], coluna);
16
17    /* Caso contrario */
18    }else{
19      bitClear (matriz[linha], coluna);
20      envia (matriz);
21    }
22
23    /* Vindo pela direita */
24    if (direcao == LOW){
25      if (linha == 0){
26        coluna++;
27        direcao = HIGH;
28      }else if (coluna == (tamanho - 1)){
29        linha++;
30        direcao = HIGH;
31      }else{
32        coluna++;
33        linha--;
34      }
35    /* Vindo pela esquerda */
36    }else{
37      if (coluna == 0){
38        linha++;
39        if (linha == tamanho){
40          linha = tamanho - 1;
41          coluna++;
42        }
43        direcao = LOW;
44      }else if (linha == (tamanho - 1)){
45        coluna++;
46        direcao = LOW;
47      }else{
48        linha++;
49        coluna--;
50      }
51    }
52  }
53 }

```

zigzagscan.ino

however, for multiline equations we recommend to use the `eqnarray` environment¹.

$$a \times b = c$$

¹ In physics texts please activate the class option `vecphys` to depict your vectors in ***boldface-italic*** type - as is customary for a wide range of physical subjects.

$$\mathbf{a} \cdot \mathbf{b} = \mathbf{c} \tag{1.2}$$

1.2.1 Subsection Heading

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1.2.1.1 Subsubsection Heading

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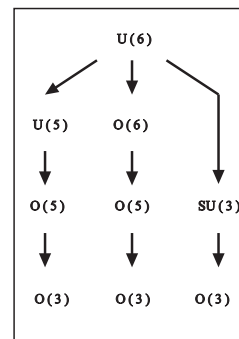
Please note that the first line of text that follows a heading is not indented, whereas the first lines of all subsequent paragraphs are.

Paragraph Heading

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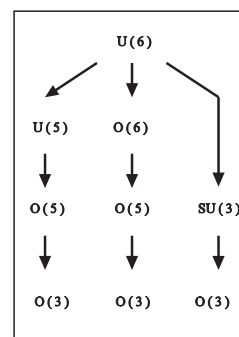
Please note that the first line of text that follows a heading is not indented, whereas the first lines of all subsequent paragraphs are.

Figura 1.1 If the width of the figure is less than 7.8 cm use the `sidecaption` command to flush the caption on the left side of the page. If the figure is positioned at the top of the page, align the sidecaption with the top of the figure – to achieve this you simply need to use the optional argument `[t]` with the `sidecaption` command



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Figura 1.2 Please write your figure caption here



For typesetting numbered lists we recommend to use the `enumerate` environment – it will automatically render Springer’s preferred layout.

1. Livelihood and survival mobility are oftentimes coutcomes of uneven socioeconomic development.
 - a. Livelihood and survival mobility are oftentimes coutcomes of uneven socioeconomic development.
 - b. Livelihood and survival mobility are oftentimes coutcomes of uneven socioeconomic development.
2. Livelihood and survival mobility are oftentimes coutcomes of uneven socioeconomic development.

Subparagraph Heading

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Please note that the first line of text that follows a heading is not indented, whereas the first lines of all subsequent paragraphs are.

For unnumbered list we recommend to use the `itemize` environment – it will automatically render Springer’s preferred layout.

- Livelihood and survival mobility are oftentimes coutcomes of uneven socioeconomic development, cf. Table 1.1.
 - Livelihood and survival mobility are oftentimes coutcomes of uneven socioeconomic development.
 - Livelihood and survival mobility are oftentimes coutcomes of uneven socioeconomic development.
- Livelihood and survival mobility are oftentimes coutcomes of uneven socioeconomic development.

Run-in Heading Boldface Version Use the \LaTeX automatism for all your cross-references and citations as has already been described in Sect. 1.2.

Run-in Heading Italic Version Use the \LaTeX automatism for all your cross-references and citations as has already been described in Sect. 1.2.

Tabela 1.1 Please write your table caption here

Classes	Subclass	Length	Action Mechanism
Translation	mRNA ^a	22 (19–25)	Translation repression, mRNA cleavage
Translation	mRNA cleavage	21	mRNA cleavage
Translation	mRNA	21–22	mRNA cleavage
Translation	mRNA	24–26	Histone and DNA Modification

^a Table foot note (with

superscript)

1.3 Section Heading

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If you want to list definitions or the like we recommend to use the Springer-enhanced `description` environment – it will automatically render Springer’s preferred layout.

Type 1 That addresses central themes pertaining to migration, health, and disease. In Sect. 1.1, Wilson discusses the role of human migration in infectious disease distributions and patterns.

Type 2 That addresses central themes pertaining to migration, health, and disease. In Sect. 1.2.1, Wilson discusses the role of human migration in infectious disease distributions and patterns.

1.3.1 Subsection Heading

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Please note that the first line of text that follows a heading is not indented, whereas the first lines of all subsequent paragraphs are.

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If you want to emphasize complete paragraphs of texts we recommend to use the newly defined Springer class option and environment `svgraybox`. This will produce a 15 percent screened box ‘behind’ your text.

1.3.1.1 Subsubsection Heading

Instead of simply listing headings of different levels we recommend to let every heading be followed by at least a short passage of text. Furtheron please use the \LaTeX automatism for all your cross-references and citations as has already been described in Sect. 1.2.

Please note that the first line of text that follows a heading is not indented, whereas the first lines of all subsequent paragraphs are.

Theorem 1.1. *Theorem text goes here.*

Definition 1.1. Definition text goes here.

Demonstração. Proof text goes here. \square

Paragraph Heading

Instead of simply listing headings of different levels we recommend to let every heading be followed by at least a short passage of text. Furtheron please use the \LaTeX automatism for all your cross-references and citations as has already been described in Sect. 1.2.

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Theorem 1.2. *Theorem text goes here.*

Definition 1.2. Definition text goes here.

Demonstração. Proof text goes here. \square

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Appendix

When placed at the end of a chapter or contribution (as opposed to at the end of the book), the numbering of tables, figures, and equations in the appendix section continues on from that in the main text. Hence please *do not* use the `appendix` command when writing an appendix at the end of your chapter or contribution. If there is only one the appendix is designated “Appendix”, or “Appendix 1”, or “Appendix 2”, etc. if there is more than one.

$$a \times b = c \tag{1.3}$$

Problems

1.1. A given problem or Exercise is described here. The problem is described here. The problem is described here.

1.2. Problem Heading

- (a) The first part of the problem is described here.
- (b) The second part of the problem is described here.

Referências

In view of the parallel print and (chapter-wise) online publication of your book at www.springerlink.com it has been decided that – as a general rule – references should be sorted chapter-wise and placed at the end of the individual chapters. However, upon agreement with your contact at Springer you may list your references in a single separate chapter at the end of your book. Deactivate the class option `sectrefs` and the `thebibliography` environment will be put out as a chapter of its own.

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⁴ Always use the standard abbreviation of a journal's name according to the *ISSN List of Title Word Abbreviations*, see <http://www.issn.org/en/node/344>

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Capítulo 2

Laboratório 2

2.1 Sobre o problema

O objetivo desse sistema é mensurar o nível de iluminação de um local utilizando o sensor LDR. Quanto maior o nível de luz incidida, mais led's deverão ser acesos.

2.2 Fundamentos teóricos

2.2.1 Sensor LDR

O LDR (*Light Dependent Resistor*) é um componente eletrônico passivo – sem polaridade –, cuja resistência varia conforme a intensidade da luz que incide sobre ele. A medida que a intensidade da luz incidida aumenta, a sua resistência diminui. [?]

2.2.2 Conversor analógico-digital (ADC)

Em resumo, o ADC é uma funcionalidade que converte uma tensão analógica em um determinado número. O Intel Galileo/Arduino possui 10 bits de precisão, portanto, pode detectar ($2^{10} = 1024$) níveis discretos analógicos. Isso significa que qualquer tensão (0 – 5 V) que entre no pino ADC do Intel Galileo, será convertido em um número de 0 a 1023. [?]

Fórmula:

$$\frac{\text{Resolução do sistema}}{\text{Tensão do sistema}} = \frac{\text{Leitura ADC}}{\text{Tensão analógica medida}} \quad (2.1)$$

Portanto, para o Intel Galileo, tem-se:

$$\frac{1023}{5} = \frac{\text{Leitura ADC}}{\text{Tensão analógica medida}} \quad (2.2)$$

2.3 Pré-requisitos

- Conversor digital-analógico;
- Operadores lógicos;
- Instrução condicional simples (se/então);
- Saída digital.

2.4 Material necessário

- Intel Galileo;
- Protoboard;
- Jumpers ou fios;
- 1x resistor de 10 kΩ e 4x resistores de 220 Ω;
- 4x led's (preferencialmente de cores diferentes);
- 1 sensor LDR.

2.5 Circuito montado

Os led's devem ser mantidos o mais longe possível do sensor LDR, evitando assim, que a luz emitida por eles interfira na medida feita pelo sensor.

2.6 Código

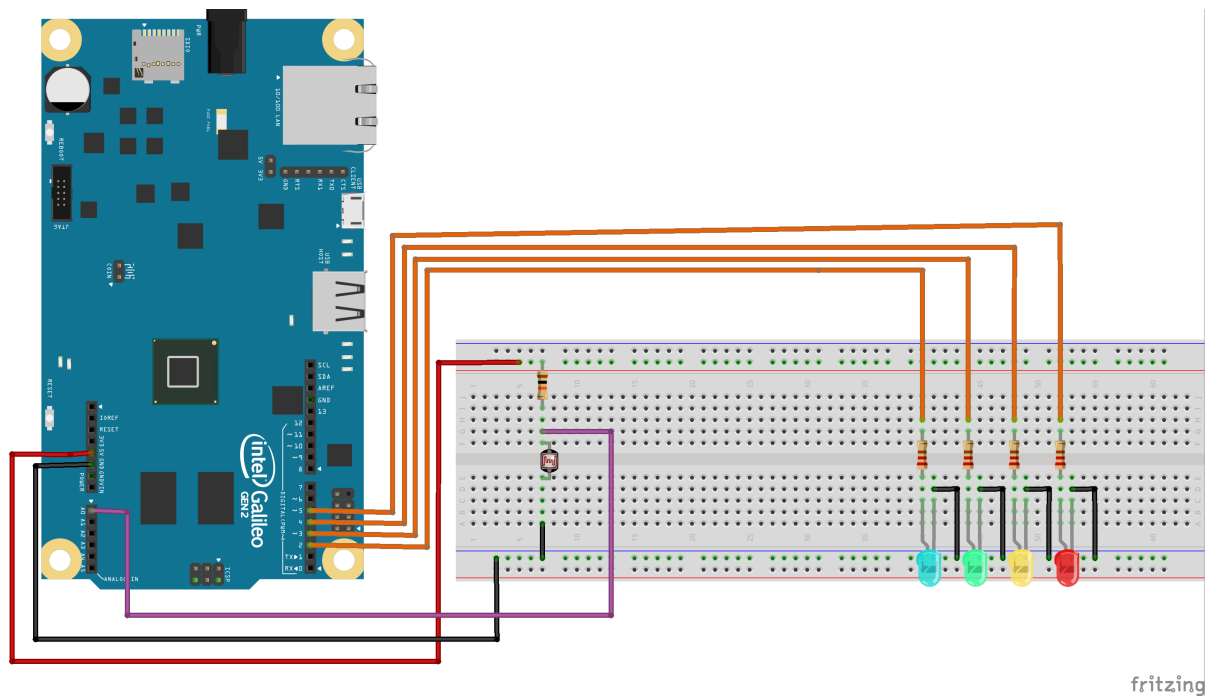


Figura 2.1 Montagem do circuito utilizando o software Fritzing

```
1  /*
2  * Título: Medida do nível de iluminação utilizando o sensor LDR
3  * Autor: Charles Cardoso de Oliveira
4  * Descrição: A medida que o nível de iluminação aumenta, diminui o valor lido na entrada analógica
5  * Os valores lidos são mostrados no monitor via interface serial e devem ser utilizados para
6  * A quantidade de led's ligados é controlada pelos condicionais.
7  */
8
9  #define LIMIAR1 1020
10 #define LIMIAR2 1010
11 #define LIMIAR3 1000
12
13 #define LED1 2
14 #define LED2 3
15 #define LED3 4
16 #define LED4 5
17
18 int valorAnalogico;
19
20 void setup(){
21     Serial.begin(9600); /* Inicia o modo serial para debug */
22
23     pinMode(LED1, OUTPUT);
24     pinMode(LED2, OUTPUT);
25     pinMode(LED3, OUTPUT);
26     pinMode(LED4, OUTPUT);
27 }
28
29 void loop(){
30     valorAnalogico = analogRead(A0);
31     Serial.println(valorAnalogico); /* Imprime no monitor o valor lido em A0 (deve ser utilizado para
32     calibrar os valores LIMIAR) */
33
34     if(valorAnalogico > LIMIAR1){
35         digitalWrite(LED1, HIGH);
36         digitalWrite(LED2, LOW);
37         digitalWrite(LED3, LOW);
38         digitalWrite(LED4, LOW);
39     }
40
41     if(valorAnalogico > LIMIAR2 && valorAnalogico <= LIMIAR1){
42         digitalWrite(LED1, HIGH);
43         digitalWrite(LED2, HIGH);
44         digitalWrite(LED3, LOW);
45         digitalWrite(LED4, LOW);
46     }
47
48     if(valorAnalogico > LIMIAR3 && valorAnalogico <= LIMIAR2){
49         digitalWrite(LED1, HIGH);
50         digitalWrite(LED2, HIGH);
51         digitalWrite(LED3, HIGH);
52         digitalWrite(LED4, LOW);
53     }
54
55     if(valorAnalogico <= LIMIAR3){
56         digitalWrite(LED1, HIGH);
57         digitalWrite(LED2, HIGH);
58         digitalWrite(LED3, HIGH);
59         digitalWrite(LED4, HIGH);
60     }
61 }
```

lab2_charles/lab2_galileo.ino

Apêndice A

Chapter Heading

All's well that ends well

Use the template *appendix.tex* together with the Springer document class SVMono (monograph-type books) or SVMult (edited books) to style appendix of your book in the Springer layout.

A.1 Section Heading

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A.1.1 Subsection Heading

Instead of simply listing headings of different levels we recommend to let every heading be followed by at least a short passage of text. Furtheron please use the \LaTeX automatism for all your cross-references and citations as has already been described in Sect. A.1.

For multiline equations we recommend to use the `eqnarray` environment.

$$\begin{aligned} \mathbf{a} \times \mathbf{b} &= \mathbf{c} \\ \mathbf{a} \times \mathbf{b} &= \mathbf{c} \end{aligned} \tag{A.1}$$

A.1.1.1 Subsubsection Heading

Instead of simply listing headings of different levels we recommend to let every heading be followed by at least a short passage of text. Furtheron please use the \LaTeX automatism for all your cross-references and citations as has already been described in Sect. A.1.1.

Please note that the first line of text that follows a heading is not indented, whereas the first lines of all subsequent paragraphs are.

Figura A.1 Please write your figure caption here

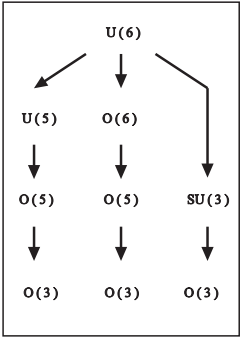


Tabela A.1 Please write your table caption here

Classes	Subclass	Length	Action Mechanism
Translation	mRNA ^a	22 (19–25)	Translation repression, mRNA cleavage
Translation	mRNA cleavage	21	mRNA cleavage
Translation	mRNA	21–22	mRNA cleavage
Translation	mRNA	24–26	Histone and DNA Modification

^a Table foot note (with

superscript)

Glossary

Use the template *glossary.tex* together with the Springer document class SVMono (monograph-type books) or SVMult (edited books) to style your glossary in the Springer layout.

glossary term Write here the description of the glossary term. Write here the description of the glossary term. Write here the description of the glossary term.

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glossary term Write here the description of the glossary term. Write here the description of the glossary term. Write here the description of the glossary term.

Solutions

Problems of Chapter 1

1.1 The solution is revealed here.

1.2 Problem Heading

(a) The solution of first part is revealed here.

(b) The solution of second part is revealed here.

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