

# UNIDADE 14

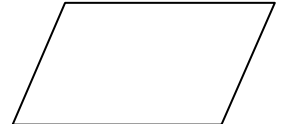
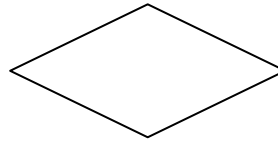
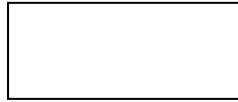
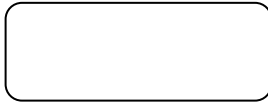
## Computer programming/Reviewing Websites

O que é um fluxograma?

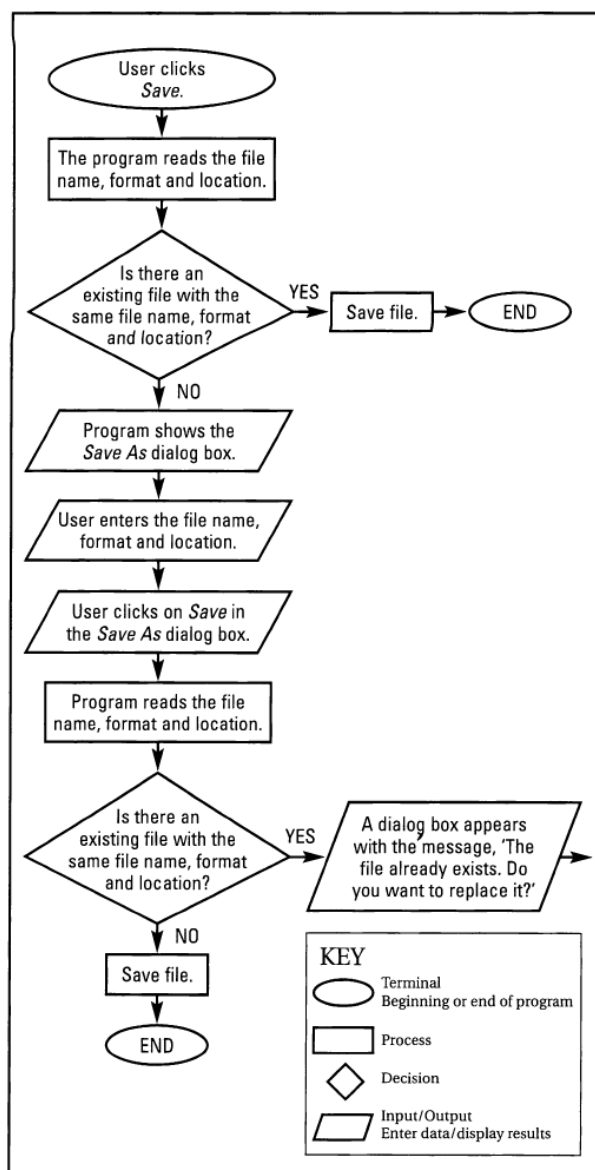
Qual seu objetivo?

Como ele costuma ser usado na programação?

Qual o significado dos símbolos abaixo em um fluxograma?



**Exercício 1:** Interprete o fluxograma abaixo e responda as perguntas ao lado.



1 Which computer commands does it show?

\_\_\_\_\_ and \_\_\_\_\_

2 How many decisions does the computer make? \_\_\_\_\_

3 After the user clicks Save, how many times does the user input data? \_\_\_\_\_

**Exercício 2:** Leia o texto sobre programação abaixo e escreva o número do parágrafo em que aparecem as informações abaixo:

- a a description of machine language ☐
- b the greatest problem for computer programmers ☐
- c the names of three high-level computer languages ☐
- d a description of an algorithm ☐
- e different uses of computers in our lives ☐

**1** The diagram on the right shows part of a simple algorithmic flow chart for the Save command in a computer program. An algorithm is a set of logical rules that we use to solve a problem. Computer programmers often use algorithms to plan their programs, but the only language a computer understands without translation is machine language. This uses the binary system of 1 and 0, which matches the electrical positions 'on' and 'off'. We can also show these numbers in English by *Yes/No* or *True/False*.

**2** Machine language is a low-level language and is very difficult to write. Over the years, computer scientists have developed many high-level languages, such as BASIC, C++ and Java. These languages use a computer code that is similar to English, which makes them easier to learn. A computer program is just a set of coded instructions. A computer translates the code into machine language to complete a specific task. A computer receives input, processes data and produces results, or output, according to the program code.

**3** We use computers in many parts of our lives, and not just in schools or for the Internet. There are computers in all kinds of electrical devices, from mobile phones to washing machines. We can find them in banks, supermarkets and cars. When programmers write programs, they have to plan carefully for every possible kind of error a computer user can input into the computer. It is planning for the random behaviour of humans that makes programming so much fun.

**Exercício 3:** Marque “sim” ou “não” para as afirmações abaixo:

- |   |   |        |
|---|---|--------|
| 1 | Programmers use algorithms when writing programs.     | yes/no |
| 2 | Programmers write programs using the numbers 1 and 0. | yes/no |
| 3 | Machine language is a high-level language.            | yes/no |
| 4 | We only find computer programs in computers.          | yes/no |

**Exercício 4:** Complete as lacunas com as palavras fornecidas no box:


according to ■ behaves ■ devices ■ errors  
■ input ■ output


- 1 \_\_\_\_\_ the bank machine, I have no money in my bank account.
- 2 Video and digital cameras are other \_\_\_\_\_ that use computers.
- 3 \_\_\_\_\_ is any result a computer displays on a screen or prints from a printer.
- 4 A computer receives \_\_\_\_\_ from users when they click on a command.
- 5 I made too many \_\_\_\_\_ in my test so I got a bad grade.
- 6 Not everyone \_\_\_\_\_ logically when things go wrong with a computer.


**Exercício 4:** Escolha a palavra correta para cada opção:


- 1 Most people can easily learn a \_\_\_\_\_ language and become programmers.  
a low-level   b high-level   c binary
- 2 You can use a mouse or keyboard to \_\_\_\_\_ data into the computer.  
a output   b input   c process
- 3 Some children \_\_\_\_\_ very badly when they can't have something they want.  
a process   b solve   c behave
- 4 You can draw \_\_\_\_\_ for many simple procedures.  
a an algorithm   b a code   c data
- 5 Computers \_\_\_\_\_ programming language into machine language.  
a use   b develop   c translate
- 6 A computer can \_\_\_\_\_ large amounts of data at very high speeds.  
a process   b result   c complete


**Exercício 5:** Faça uma lista abaixo com as cinco coisas que mais aborrecem você em sites de internet:

 \_\_\_\_\_

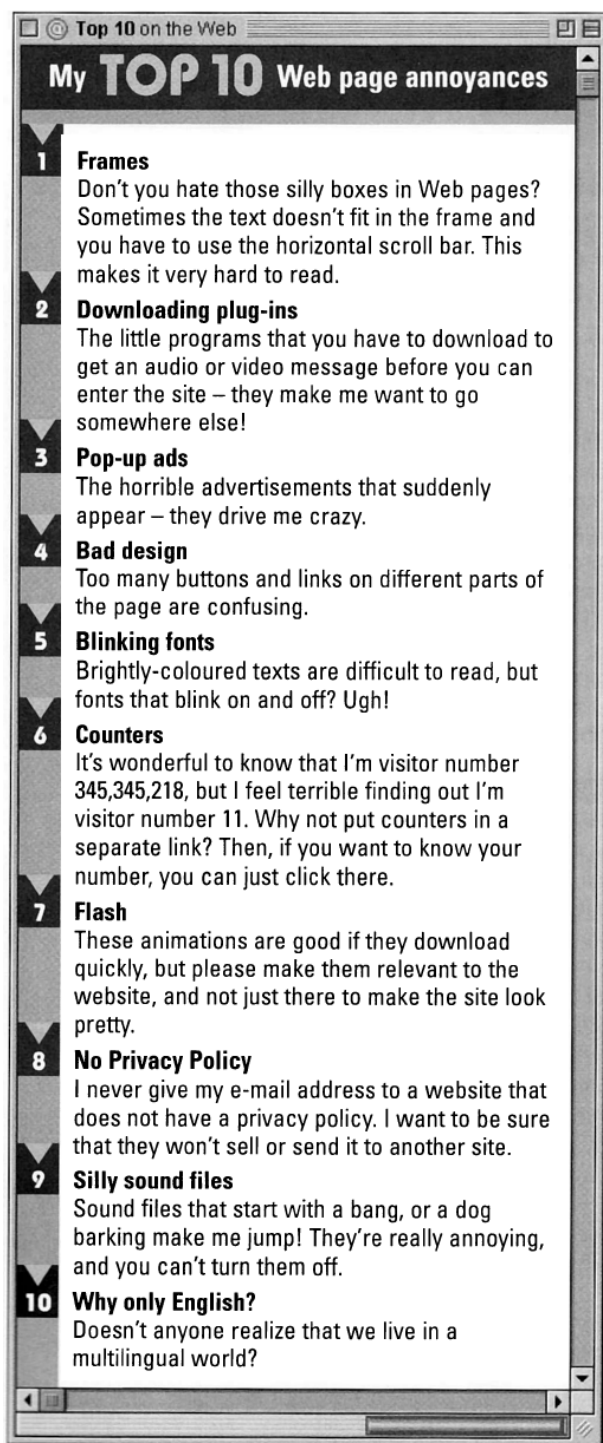
 \_\_\_\_\_

 \_\_\_\_\_

 \_\_\_\_\_

 \_\_\_\_\_

**Exercício 6:** Agora, veja uma lista de problemas em sites listados em um site pessoal. Eles coincidem com a sua lista pessoal? Você concorda ou discorda com a lista? Como “rankearia” os problemas listados?



**Exercício 7:** Escreva ao lado das frases abaixo o número do problema listado no texto a que elas se refêm.

- a Websites should have rules about giving e-mail addresses to other sites. ☐
- b Web pages should have options for different languages. ☐
- c Animations should be about the same subject as the Web page. ☐
- d Web pages should not need special programs to run. ☐
- e The text should not blink on and off. ☐
- f Dividing a Web page into a lot of small frames is bad design. ☐

**Exercício 8:** Localiza antônimos no texto:

- 1 clear \_\_\_\_\_
- 2 very bad \_\_\_\_\_
- 3 unrelated \_\_\_\_\_
- 4 ugly \_\_\_\_\_
- 5 uncertain \_\_\_\_\_
- 6 monolingual \_\_\_\_\_

**Exercício 9:** Complete as lacunas com palavras do box:

confusing ■ else ■ fits ■ relevant ■ scroll bar

- 1 This is a well-designed Web page. Everything \_\_\_\_\_ well on the screen.
- 2 Web surfers will go somewhere \_\_\_\_\_ if the page doesn't appear quickly.
- 3 That animation is good because it is pretty and it is \_\_\_\_\_ to the Web page.
- 4 That website is very \_\_\_\_\_ because I couldn't find the Back button.
- 5 It's annoying when you have to use the horizontal \_\_\_\_\_ to see all of the text.

[illegible]

**Exercício 13:** Veja as páginas pessoais abaixo. Quais seriam suas observações, críticas e sugestões?

