

Image

CODE : Demo Course

Some sub title

Hello World

12. November 2023

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Some Slide Title

Examine some basic code. Take a look at the (very) basic program below to get a good idea about how some of the various aspects of the language work together, and to get an idea of how programs function.

CODE : Demo Course

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Berner
Fachhochschule

Some Section Title

Short Sub-Title

An other section

An other section

An other section

v1.0.0

Some Slide Title

Examine some basic code. Take a look at the (very) basic program below to get a good idea about how some of the various aspects of the language work together, and to get an idea of how programs function.

- The `#include` command occurs before the program starts, and loads libraries that contain the functions you need. In this example, `stdio.h` lets us use the `printf()` and `getchar()` functions.
- The `int main()` command tells the compiler that the program is running the function called “main” and that it will return an integer when it is finished. All-most all C programs run a “main” function.
- The `{}` indicate that everything inside them is part of the function. In this case, they denote that everything inside is a part of the “main” function.
- The `printf()` function displays the contents of the parentheses on the user’s screen. The quotes ensure that the string inside is printed literally. The `\n` sequence tells the compiler to move the cursor to the next line.



Some Slide Title

Examine some basic code. Take a look at the (very) basic program below to get a good idea about how some of the various aspects of the language work together, and to get an idea of how programs function.

- The “;” denotes the end of a line. Most lines of C code need to end with a semicolon.
- The `getchar()` command tells the compiler to wait for a keystroke input before moving on. This is useful because many compilers will run the program and immediately close the window. This keeps the program from finishing until a key is pressed.
- The `return 0` command indicates the end of the function. This means that it will need an integer to be returned once the program is finished.¹

¹A “0” indicates that the program has performed correctly; any other number will mean that the program ran into an error.



Exercise

Some meaningful exercise!!

Solution.



An other section

The box env

Blocktitel

Blocktext

Beispielblocktitel

Beispielblocktext

Warnungsblocktitel

Warnungsblocktext



Shell examples

- An ordinary user shell command.
- A command on a `root` shell.
- A user shell where a command with super user perm.



A Theorem on Infinite Sets

Theorem

There exists an infinite set.



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Beweis.

This follows from the axiom of infinity. ☐



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Example (Natural Numbers)

The set of natural numbers is infinite.



Some BFH table

Header 1	Header 2	Header 3
Content 11	Content 12	Content 13
Content 21	Content 22	Content 23

Tabelle: Anzahl Personen, ausländischer Bevölkerungsanteil und Arbeitslosenquote pro Stadtteil Ende 2005 (Statistikdienste der Stadt Bern, 2006)



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