





Springer Hello, world! MAGAZIN TO FESSIONEI WORLD AND THE STORY OF TAGE STORY OF THE STORY OF TH







```
MS-DOS Batch
                                                              ABAP
                                                                                                                                        Dylan
* ABAP: "Hello, world!" *
                                                                           // Dylan: "Hello, world!"
REPORT HELLO WORLD.
                                                                           define method hello-world()
                                                                                                                                                      REM DOS batch: "Hello, world!"
WRITE 'Hello, world!'.
                                                                              format-out("Hello, world!\n");
                                                                                                                                                     ECHO Hello, world!
                                                                           end method hello-world;
                                                                          hello-world();
                                                                Ada
                                                                                                                                                                                                              Mumps-M
-- Ada: "Hello, world!"
                                                                                                                                                     ; Mumps-M: "Hello, world!"
with Ada. Text IO; use Ada. Text IO;
                                                                                                                                                      w !, "Hello, world!'
                                                                                                                            ECMA/JavaScript
procedure Hello is
                                                                           // ECMAScript/JavaScript: "Hello, world!"
                                                                           alert('Hello, world!');
                                                                                                                                                                                                                 Oberon
   Put_Line ("Hello, world!");
                                                                                                                                                      (* Oberon: "Hello, world!" *)
end Hello;
                                                                                                                                                     MODULE Helloworld;
                                                                                                                                         Eiffel
                                                                                                                                                     IMPORT Write:
                                                                             description: "Eiffel: Hello, world!"
                                                                                                                                                     BEGIN
                                                            ALGOL
HELLO: 'BEGIN'
                                                                                                                                                       Write.Line("Hello, world!");
   'COMMENT' CDC ALGOL 60: "Hello, world!";
                                                                                                                                                     END Helloworld.
                                                                          creation
  OUTSTRING(1, 'Hello, world!')
                                                                             run
                                                                           feature
                                                                                                                                                                                                                   Pascal
                                                                                                                                                     program HelloWorld(output);
                                                                                                                                                     (* Pascal: Hello, world! *)
                                                                Ant
                                                                                 print("Hello, world!%N");
<!-- Ant: "Hello, world!" -->
opect name="Hello" default="hello">
                                                                                                                                                       WriteLn('Hello, world!');
                                                                                end -- run
  <target name="hello" description="Greeting">
                                                                           end -- HELLO
    <echo message="Hello, world!"/>
                                                                                                                                                                                                                     Perl
                                                                                                                                                      # Perl: "Hello, world!"
                                                                                                                                        Erlang
</project>
                                                                           %% Erlang: "Hello, world!"
                                                                                                                                                     print "Hello, world!\n";
                                                                           -module(hello).
                                                                           -export([hello/0]).
                                                                APL
X APL: Hello, world!
                                                                                                                                                                                                                     PHP
Y- 'Hello, world!'
                                                                                                                                                      <?php // PHP: "Hello, world!"</pre>
                                                                          hello() \rightarrow
                                                                                                                                                     echo "<html><body>"."Hello, world!"."</body></html>"; ?>
                                                                             io:format("Hello, world!~n", []).
                                                       AppleScript
-- AppleScript: "Hello, world!"
                                                                                                                                                                                                                     PL/1
display dialog "Hello, world!"
                                                                                                                                         Forth
                                                                           \ Gforth: "Hello, world!"
                                                                                                                                                      /* PL/1: "Hello, world!" */
                                                                           s" world!" s" Hello, "
                                                                                                                                                     Hello: procedure options(main);
                                                                           type type CR
                                                                                                                                                            put skip list('Hello, world!');
                                                               ASP
<% @ Language="VBScript" %>
                                                                                                                                                      end Hello;
                                                                          bye
<% 'ASP: "Hello, world!"
   Response.Write("<html><body>Hello, world!</body></html>") %>
                                                                                                                                                                                                              Plankalkül
                                                                                                                                      Fortran
                                                                                                                                                      R1.1(V0[:sig]) => R0
                                                                                 Fortran: Hello, world!
                                                                                                                                                     R1.2(V0[:m \times sig]) => R0
                                                                                 PROGRAM HALLO
                                                        Assembler
; NASM Intel 8086 Assembler (DOS): "Hello, world!"
                                                                                                                                                     0 \Rightarrow i \mid m + 1 \Rightarrow j
                                                                                 WRITE (*,100)
                                                                                                                                                     [W [ i < j -> [ R1.1(V0[i: m x sig]) => R0 | i + 1 => i ] ]
       org 100h
                                                                                 STOP
start:
                                                                             100 FORMAT ('Hello, world!')
                AH,09h
                                                                                                                                                      'H';'e';'l';'l';'o';',';' ';'w';'o';'r';'l';'d';'!' => Z0[: m x sig]
                DX,[msg]
        INT
                21h
                                                                                                                                                     R1.2(Z0) => R0
                AX,4C00h
                                                                                                                                       Groovy
        MOV
                                                                           // Groovy: "Hello, world!"
        INT
                21h
                                                                          println "Hello, world!"
        DB
                'Hello, world!$'
                                                                                                                                                                                                              PostScript
                                                                                                                                                      % PostScript: "Hello, world!"
                                                                                                                                       Haskell
                                                                                                                                                      /Courier findfont 24 scalefont setfont
                                                                           -- Haskell: "Hello, world!"
                                                                awk
# awk: "Hello, world!"
                                                                                                                                                     100 100 moveto (Hello, world!) show showpage
BEGIN { print "Hello, world!" }
                                                                          main = putStrLn "Hello, world!"
                                                                                                                                                                                                             PowerShell
                                                                                                                                                      # PowerShell: "Hello, world!"
/* A TUTORIAL INTRODUCTION TO THE LANGUAGE B
                                                                                                                                         Hello
                                                                                                                                                     Write-Host "Hello, world!"
B. W. Kernighan Bell Laboratories, New Jersey,
January 1973 - first documented "hello, world!" */
                                                                                                                                                                                                                  Prolog
                                                                                                                                                     % Prolog: "Hello, world!"
                                                                                                                                        HPGL
                                                                          CO HPGL: "Hello, world!";
                                                                                                                                                     ?- write('Hello, world!') , nl .
 extrn a, b, c;
                                                                          PA0,0;
 putchar (a); putchar (b); putchar (c); putchar ('!*n');
                                                                          PR1000,1000;
                                                                                                                                                                                                                  Python
                                                                                                                                                     # Python: "Hello, world!"
                                                                           SP1;
a 'hell' ;
                                                                                                                                                     print "Hello, world!"
                                                                          PD;
b 'o, w';
c 'orld' :
                                                                          LBHello world!;
                                                                                                                                                                                                                    REXX
                                                                                                                                                      /* REXX: "Hello, world!" */
                                                                                                                                                     say 'Hello, world!'
                                                                          PA 0,0;
                                                              Bash
# Bash: "Hello, world!'
                                                                          SP0;
                                                                                                                                                     exit
echo Hello, world!
                                                                                                                                                                                                                    Ruby
                                                                                                                                                     # Ruby: "Hello, world!"
                                                                                                                                       HTML
                                                                           <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN">
                                                             BASIC
10 REM BASIC: "Hello, world!"
                                                                                                                                                     puts "Hello, world!"
                                                                           <!-- HTML: "Hello, world!" -->
20 PRINT "Hello, world!'
                                                                          <html><head><title>Greeting</title>
                                                                           <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
                                                                                                                                                                                                                 Scheme
                                                                                                                                                     ;;; Scheme: "Hello, world!"
                                                                           </head><body>Hello, World!</body></html>
Brainfuck: "HelloKOMMA World!" [-]+++++++|>+++++
                                                         Brainfuck
                                                                                                                                                     (define h(lambda()(display "\nHello, world!")(newline)()))(h)
+>++++++++++>++++>+++>+<<<<<-1>>+ . ++++++++ . . +++ . >+
+++.>++.<<+++++++.----..+++.----..>>+.
                                                                                                                                   INTERCAL
                                                                           * INTERCAL: "Hello, world!"
                                                                                                                                                                                                                      sed
                                                                           PLEASE DO ,1 <- #13
                                                                                                          DO ,1 SUB #9 <- #168
                                                                                                                                                     echo s | sed -ne '1s/.*/Hello, world!/p'
                                                                           DO ,1 SUB #1 <- #238
                                                           BS2000
                                                                                                          DO ,1 SUB #10 <- #24
/BEGIN-PROCEDURE LOGGING=N
                                                                           DO ,1 SUB #2 <- #112
                                                                                                          DO ,1 SUB #11 <- #16
/REMARK BS2000 (SDF): "Hello, world!"
                                                                           DO ,1 SUB #3 <- #112
                                                                                                          DO ,1 SUB #12 <- #158
                                                                                                                                                                                                                      Self
                                                                                                                                                      'Hello, world!' print.
/ASSIGN-SYSDTA TO-FILE=*SYSCMD
                                                                           DO ,1 SUB #4 <- #0
                                                                                                          DO ,1 SUB #13 <- #52
/WRITE-TEXT 'Hello, world!'
                                                                           DO ,1 SUB #5 <- #64
                                                                                                          DO READ OUT ,1
/SET-JOB-STEP
                                                                           DO ,1 SUB #6 <- #238
                                                                                                          PLEASE GIVE UP
                                                                                                                                                                                                                  Simula
                                                                                                                                                      ! Simula: "Hello, world!";
/ASSIGN-SYSDTA TO-FILE=*PRIMARY
                                                                           DO ,1 SUB #7 <- #26
/END-PROCEDURE
                                                                           DO ,1 SUB #8 <- #248
                                                                                                                                                       OutText("Hello, world!"); OutImage;
                                                                                                                                                     End of program;
/* ANSI C: "Hello, world!" */
                                                                                                                                          Java
                                                                          // Java: "Hello, world!"
#include <stdio.h>
                                                                                                                                                                                                               Smalltalk
#include <stdlib.h>
                                                                                                                                                      'Hello, world!' out.
                                                                           class HelloWorld {
int main(void){
                                                                            public static void main(String args[]) {
    puts("Hello, world!"); return EXIT SUCCESS;
                                                                              System.out.println("Hello, world!");
                                                                                                                                                                                                                     SQL
                                                                                                                                                      -- SQL: "Hello, world!"
                                                                                                                                                     SELECT 'Hello, world!' AS message;
                                                                C#
// C#: "Hello, world!"
                                                                                                                                                                                                                   \mathbf{T}_{\mathbf{F}}\mathbf{X}
                                                                                                                                           JSP
using System;
                                                                           <!-- Java Server Pages: "Hello, world!" -->
                                                                                                                                                      % TeX: "Hello, world!"
class HelloWorld {
                                                                           <%@ page language='java' %>
                                                                                                                                                      Hello, world!
    public static int Main(String[] args) {
                                                                           <%="Hello, world!" %>
        Console.WriteLine("Hello, world!");
                                                                                                                                       LAT<sub>F</sub>X
                                                                                                                                                                                                               troff/groff
                                                                           % LaTeX: "Hello, world!"
                                                                                                                                                      .\" troff/groff: "Hello, world!"
                                                                           \documentclass{article}
                                                                                                                                                     Hello, world!
                                                                           \begin{document}
                                                                          Hello, world!
                                                              C++
// ISO C++: "Hello, world!"
                                                                           \end{document}
#include <iostream>
                                                                                                                                                                                                                 Velocity
                                                                                                                                                      <!-- Velocity: "Hello, world!" --><html><body>
int main() {
                                                                                                                                                       #set( $foo = "Hello, world!" )
    std::cout << "Hello, world!" << std::endl;</pre>
                                                                                                                                         Logo
                                                                           ; Logo: "Hello, world!"
                                                                           PRINT [Hello, world!]
                                                                                                                                                     </body></html>
      * COBOL 74: "Hello, world!"
                                                           COBOL
                                                                                                                                                                                                            Whitespace
       IDENTIFICATION DIVISION.
                                                                           B4 09 8D 16 0D 01 CD 21 B8 00 4C CD 21 48 65 6C Maschinencode
         PROGRAM-ID. HELLO.
                                                                           6C 6F 2C 20 77 6F 72 6C 64 21 24
       ENVIRONMENT DIVISION.
                                                                                                                                                                                                                    XML
                                                                                                                                                      <?xml version="1.0"?><!-- XML: "Hello, world!" -->
       MAIN SECTION.
                                                                                                                                                      <greet><how>Hello, </how><who>world</who><mark>!</mark></greet>
         DISPLAY "Hello, world!"
                                                                                                                                        MAKE
                                                                           # make: "Hello, World!"
         STOP RUN.
                                                                                   @echo "Hello, World!"
                                                                                                                                                                                                                     XUL
                                                                                                                                                      <?xml version="1.0"?><!-- XUL: "Hello, world!" -->
                                                    Common Lisp
;;; Common Lisp: "Hello, world!"
                                                                                                                                                      <window xmlns=
                                                                                                                                                      "http://www.mozilla.org/keymaster/gatekeeper/there.is.only.xul">
(defun helloworld ()
                                                                                                                                    Modula-2
                                                                           (* Modula-2: "Hello, world!" *)
 (print "Hello, world!")
                                                                                                                                                      <label value="Hello, world!"/></window>
                                                                           MODULE HelloWorld;
)(helloworld)
                                                                           FROM InOut IMPORT WriteString, WriteLn;
                                                                                                                                                      Poster-Bestellung und mehr Informationen:
                                                                                                                                                                                                             Impressum
                                                                            WriteString("Hello, world!");
                                                             dBase
                                                                                                                                                     http://www.lehmanns.de/helloworld
* dBase IV: "Hello, world!"
                                                                            WriteLn;
                                                                                                                                                      Redaktion: Dirk Eckel, Christoph Kaeder, Matthias Stolt (Hamburg)
? "Hello, world!"
                                                                           END HelloWorld.
```

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