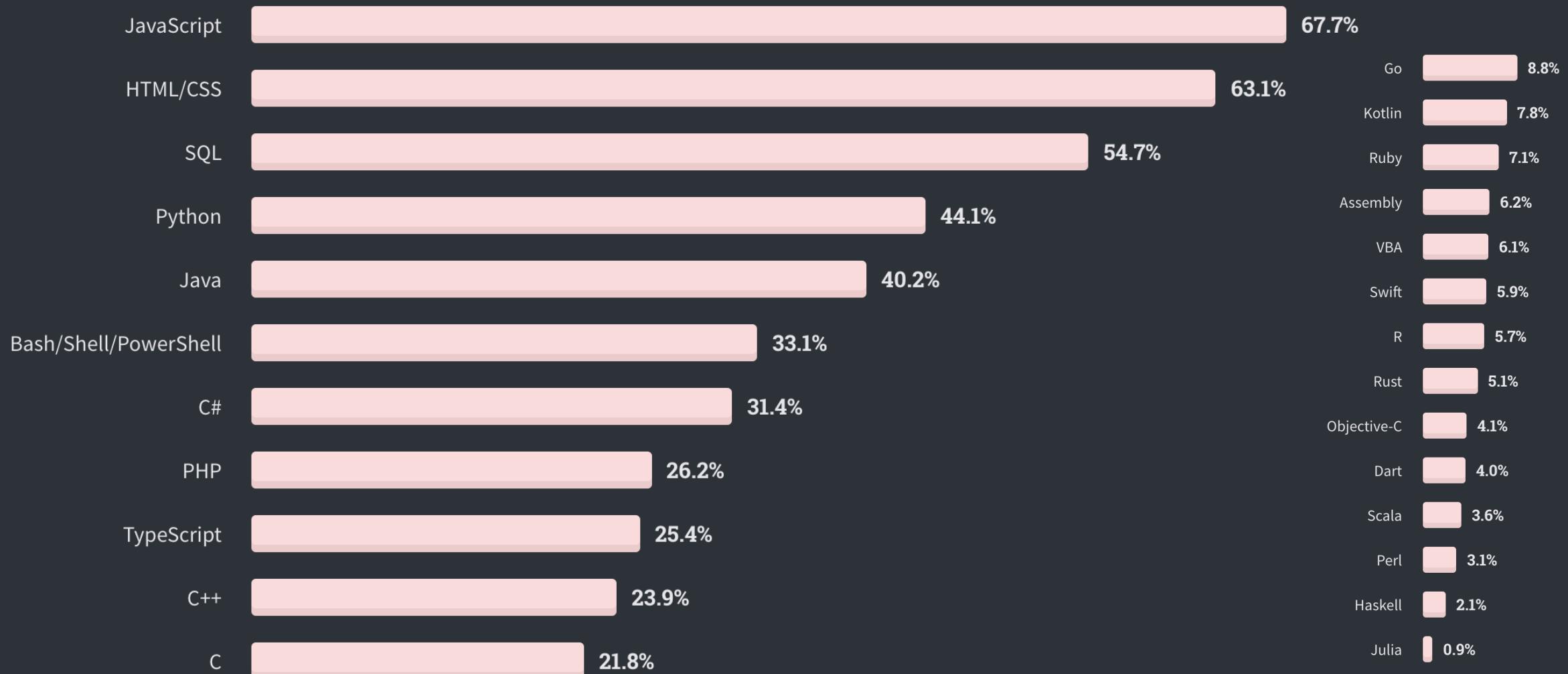


Uvod do programovania

Gabriel Valky

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Run Debug Stop Share Save Beautify Language C

main.c

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int i = 1;
6     while (i<=10)
7     {
8         int obvod = 4*i;
9         int obsah = i*i;
10        printf("Stvorec so stranou %d ma obvod %d a obsah %d.\n",
11               i, obvod, obsah);
12        i = i + 1;
13    }
14
15    return 0;
16 }
```

input

```
Stvorec so stranou 7 ma obvod 28 a obsah 49.
Stvorec so stranou 8 ma obvod 32 a obsah 64.
Stvorec so stranou 9 ma obvod 36 a obsah 81.
Stvorec so stranou 10 ma obvod 40 a obsah 100.
```

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Main.java

```
1 public class Main
2 {
3     public static void main(String[] args) {
4         Integer i = 1;
5         while (i <= 10) {
6             Integer obvod = 4*i;
7             Integer obsah = i*i;
8             System.out.println("Stvorec so stranou " + i +
9                 " ma obvod " + obvod + " a obsah " + obsah);
10            i = i + 1;
11        }
12    }
13 }
14
```

input

```
Stvorec so stranou 7 ma obvod 28 a obsah 49
Stvorec so stranou 8 ma obvod 32 a obsah 64
Stvorec so stranou 9 ma obvod 36 a obsah 81
Stvorec so stranou 10 ma obvod 40 a obsah 100
```

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Run Debug Stop Share Save Beautify Download Language Python 3 i

main.py

```
1 i = 1
2 while i<=10:
3     obvod = 4*i
4     obsah = i*i
5     print ('Stvorec so stranou ', i, ' ma obvod ', obvod, ' a obsah ', obsah)
6     i = i + 1
7
```

input

```
Stvorec so stranou 7 ma obvod 28 a obsah 49
Stvorec so stranou 8 ma obvod 32 a obsah 64
Stvorec so stranou 9 ma obvod 36 a obsah 81
Stvorec so stranou 10 ma obvod 40 a obsah 100
```

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main.php

```
1 <?php
2
3 $i = 1;
4 while ($i <= 10)
5 {
6     $obvod = 4*$i;
7     $obsah = $i*$i;
8     echo "Obvod so stranou ".$i. " ma obvod ".$obvod." a obsah ".$obsah."\n";
9     $i = $i + 1;
10}
11
12 ?>
```

input

```
Obvod so stranou 7 ma obvod 28 a obsah 49
Obvod so stranou 8 ma obvod 32 a obsah 64
Obvod so stranou 9 ma obvod 36 a obsah 81
Obvod so stranou 10 ma obvod 40 a obsah 100
```

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main.cs

```
1 using System;
2 class HelloWorld {
3     static void Main() {
4         int i = 5;
5         while (i <= 10) {
6             int obvod = 4*i;
7             int obsah = i*i;
8             Console.WriteLine("Stvorec so stranou " + i + " ma obvod " + obvod +
9                 " a obsah " + obsah);
10            i = i + 1;
11        }
12    }
13 }
```

input

```
Stvorec so stranou 7 ma obvod 28 a obsah 49
Stvorec so stranou 8 ma obvod 32 a obsah 64
Stvorec so stranou 9 ma obvod 36 a obsah 81
Stvorec so stranou 10 ma obvod 40 a obsah 100
```

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main.vb

```
Module VBModule
    Sub Main()
        dim i, obvod, obsah as integer
        I = 1
        while i <= 10
            obvod = 4*i
            obsah = i*i
            Console.WriteLine("Obvod stvorca so stranou " + str(i) +
                " je " + str(obvod) + " a obsah " + str(obsah))
            I = I + 1
        end while
    End Sub
End Module
```

input

```
Obvod stvorca so stranou 7 je 28 a obsah 49
Obvod stvorca so stranou 8 je 32 a obsah 64
Obvod stvorca so stranou 9 je 36 a obsah 81
Obvod stvorca so stranou 10 je 40 a obsah 100
```

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Run Debug Stop Share Save Beautify Download Language Pascal i

main.pas

```
1 program Hello;
2 var i, obvod, obsah : Integer;
3 begin
4   i := 1;
5   while (i <= 10) do
6     begin
7       obvod := 4*i;
8       obsah := i*i;
9       writeln ('Stvorec so stranou ', i, ' ma obvod ', obvod, ' a obsah ', obsah)
10      i := i + 1;
11    end;
12 end.
13 |
```

input

```
Stvorec so stranou 7 ma obvod 28 a obsah 49
Stvorec so stranou 8 ma obvod 32 a obsah 64
Stvorec so stranou 9 ma obvod 36 a obsah 81
Stvorec so stranou 10 ma obvod 40 a obsah 100
```

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main.m

```
1 #import <Foundation/Foundation.h>
2
3 int main (int argc, const char * argv[])
4 {
5     NSAutoreleasePool *pool = [[NSAutoreleasePool alloc] init];
6     int i = 1;
7     while (i <= 10)
8     {
9         int obvod = 4*i;
10        int obsah = i*i;
11        NSLog(@"%@", @"Stvorec so stranou %d ma obvod %d a obsah %d",
12               i, obvod, obsah);
13        i = i + 1;
14    }
15    [pool drain];
16    return 0;
17 }
18 }
```

input

```
Stvorec so stranou 6 ma obvod 24 a obsah 36
Stvorec so stranou 7 ma obvod 28 a obsah 49
Stvorec so stranou 8 ma obvod 32 a obsah 64
Stvorec so stranou 9 ma obvod 36 a obsah 81
Stvorec so stranou 10 ma obvod 40 a obsah 100
```

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main.swift

```
1 var i = 1
2 while (i<=10) {
3     print("Stvorec so stranou \(i) ma obvod \(i*4) a obsah \(i*i)")
4     i = i + 1;
5 }
6
```

input

```
Stvorec so stranou 6 ma obvod 24 a obsah 36
Stvorec so stranou 7 ma obvod 28 a obsah 49
Stvorec so stranou 8 ma obvod 32 a obsah 64
Stvorec so stranou 9 ma obvod 36 a obsah 81
Stvorec so stranou 10 ma obvod 40 a obsah 100
```

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Run Debug Stop Share Save Beautify Language Javascript(i)

main.js

```
1 i = 1;
2
3 while (i<=10)
4 {
5     obvod = 4*i
6     obsah = i*i
7     print("Stvorec so stranou "+i+" ma obvod " + obvod + " a obsah " + obsah);
8     i = i + 1;
9 }
10
```

input

```
Stvorec so stranou 6 ma obvod 24 a obsah 36
Stvorec so stranou 7 ma obvod 28 a obsah 49
Stvorec so stranou 8 ma obvod 32 a obsah 64
Stvorec so stranou 9 ma obvod 36 a obsah 81
Stvorec so stranou 10 ma obvod 40 a obsah 100
```

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main.bash

```
1 i=1
2 while [[ $i -le 10 ]] ; do
3     obvod=$((4*$i))
4     obsah=$($i*$i)
5     echo "stvorec so stranou $i ma obvod $obvod a obsah $obsah"
6     (( i += 1 ))
7 done|
```

input

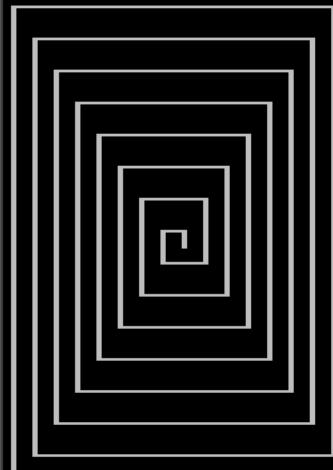
```
stvorec so stranou 6 ma obvod 24 a obsah 36
stvorec so stranou 7 ma obvod 28 a obsah 49
stvorec so stranou 8 ma obvod 32 a obsah 64
stvorec so stranou 9 ma obvod 36 a obsah 81
stvorec so stranou 10 ma obvod 40 a obsah 100
```

C:\WINDOWS\system32\cmd.exe

```
G:\>type slimak.bat
@echo off
setlocal enabledelayedexpansion
set N=15
SET /A M=(!N!+1)/2
SET I=0
:LoopI
    SET L=
    IF !I! LSS !M! <SET I=1> ELSE <SET I=0>
    IF !I! EQU 1 <SET /A MaxJ=!I!> else <set /A MaxJ=!N!-!I!>
        if !MaxJ! EQU 0 goto SkipJ1
        SET J=0
:LoopJ1
    SET L=!L!|
    SET /A J=!J!+1
    if !J! LSS !MaxJ! goto LoopJ1
:SskipJ1
    IF !I! EQU 1 <SET L=!L!_> else <SET L=!L!^>
    IF !I! EQU 1 <SET /A MaxJ=!N!-2*!I!-1> else <set /A MaxJ=2*!I!-!N!>
        if !MaxJ! EQU 0 goto SkipJ2
        SET J=0
:LoopJ2
    SET L=!L!-
    SET /A J=!J!+1
    if !J! LSS !MaxJ! goto LoopJ2
:SskipJ2
    IF !I! EQU 1 <SET L=!L!_> else <SET L=!L!^>
    IF !I! EQU 1 <SET /A MaxJ=!I!> else <set /A MaxJ=!N!-!I!-1>
        if !MaxJ! EQU 0 goto SkipJ3
        SET J=0
:LoopJ3
    SET L=!L!|
    SET /A J=!J!+1
    if !J! LSS !MaxJ! goto LoopJ3
:SskipJ3
    echo !L!
SET /A I=!I!+1
if !I! LSS !N! goto LoopI
G:\>
```

C:\WINDOWS\system32\cmd.exe

G:\>slimak.bat



G:\>_

Microsoft Visual Basic - Normal

Ln 10, Col 1

Normal - NewMacros (Code)

(General) moje

```
Sub moje()
    For i = 1 To 10
        obvod = 4 * i
        obsah = i * i
        Debug.Print "Stvorec so stranou " + Str(i) + "cm ma obvod " + Str(obvod) + "cm a obsah " + Str(obsah) + "cm"
        ActiveDocument.Content.InsertAfter "Stvorec so stranou " + Str(i) +
            "cm ma obvod " + Str(obvod) + "cm a obsah " + Str(obsah) + "cm" + Chr(13)
    Next i
End Sub
```

Properties - NewMacros

NewMacros Module

Alphabetic Categorized

(Name) NewMacros

Immediate

```
Stvorec so stranou 2cm ma obvod 8cm a obsah 4cm
Stvorec so stranou 3cm ma obvod 12cm a obsah 9cm
Stvorec so stranou 4cm ma obvod 16cm a obsah 16cm
Stvorec so stranou 5cm ma obvod 20cm a obsah 25cm
Stvorec so stranou 6cm ma obvod 24cm a obsah 36cm
Stvorec so stranou 7cm ma obvod 28cm a obsah 49cm
Stvorec so stranou 8cm ma obvod 32cm a obsah 64cm
Stvorec so stranou 9cm ma obvod 36cm a obsah 81cm
Stvorec so stranou 10cm ma obvod 40cm a obsah 100cm
```

AutoSave OFF ⌂ Document1

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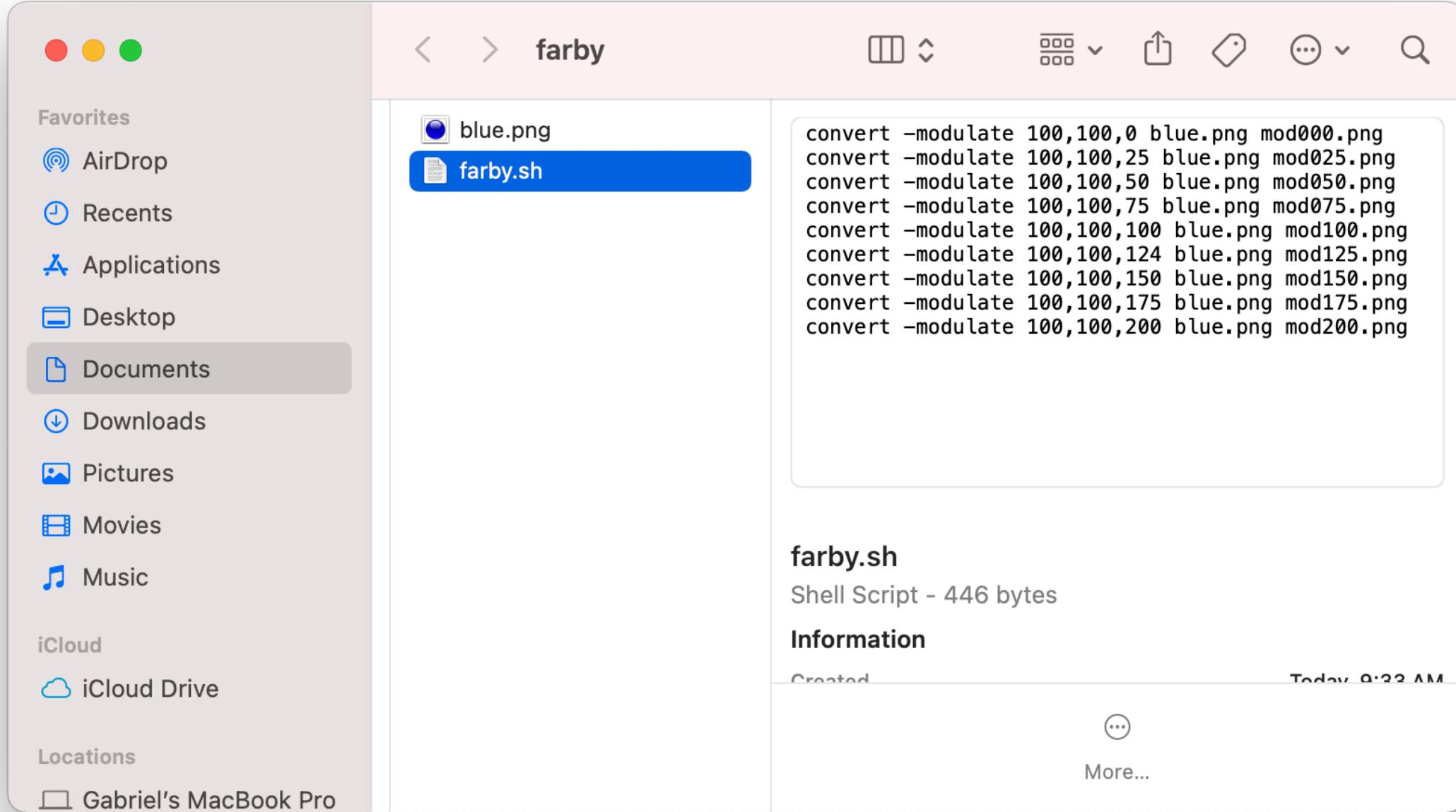
Print Layout Web Layout Outline Focus Immersive Reader Ruler Gridlines Navigation Pane One Page Multiple Pages Zoom Zoom to 100% Page Width New Window Arrange All Split Switch Windows Macros

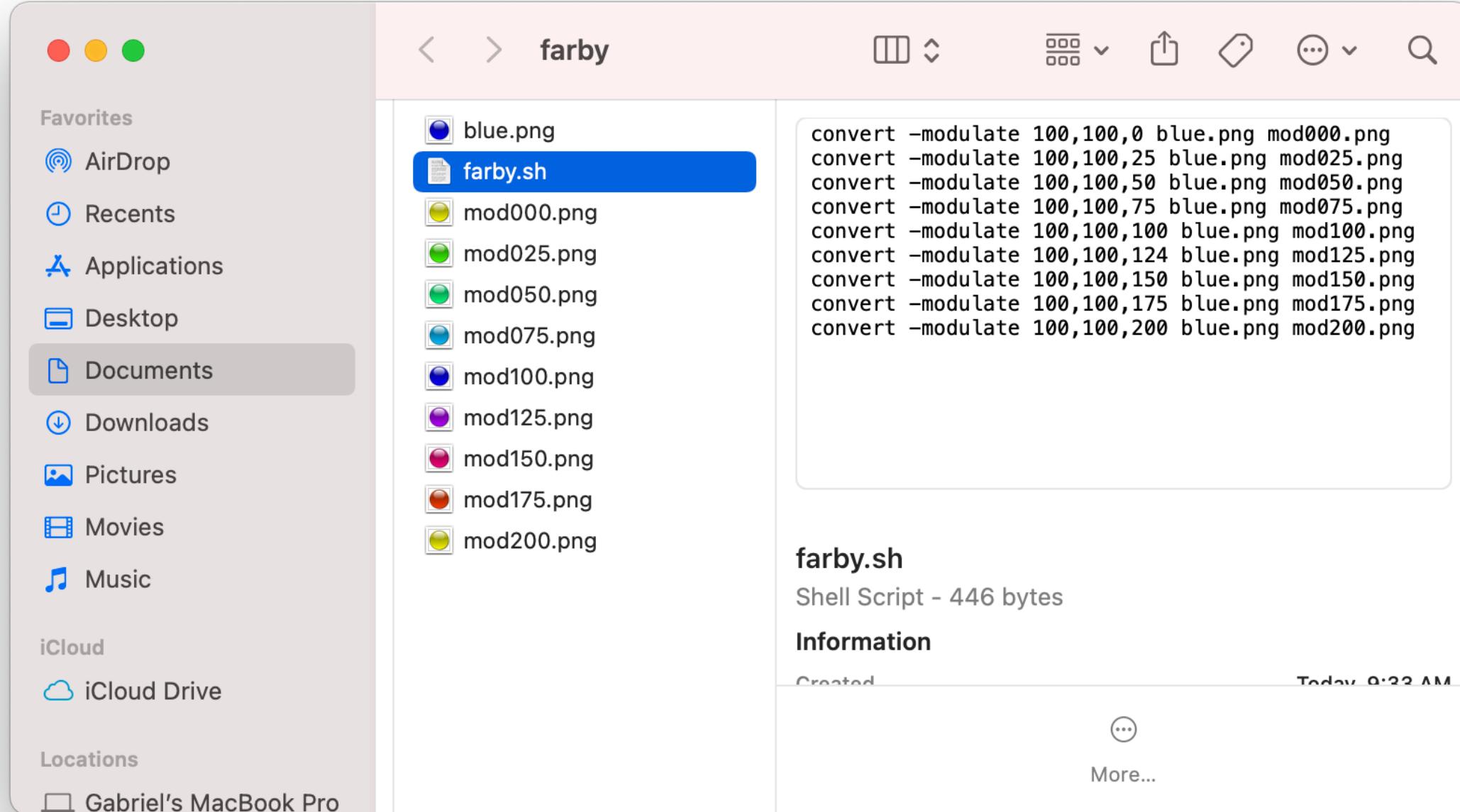
Stvorec so stranou 1cm ma obvod 4cm a obsah 1cm
Stvorec so stranou 2cm ma obvod 8cm a obsah 4cm
Stvorec so stranou 3cm ma obvod 12cm a obsah 9cm
Stvorec so stranou 4cm ma obvod 16cm a obsah 16cm
Stvorec so stranou 5cm ma obvod 20cm a obsah 25cm
Stvorec so stranou 6cm ma obvod 24cm a obsah 36cm
Stvorec so stranou 7cm ma obvod 28cm a obsah 49cm
Stvorec so stranou 8cm ma obvod 32cm a obsah 64cm
Stvorec so stranou 9cm ma obvod 36cm a obsah 81cm
Stvorec so stranou 10cm ma obvod 40cm a obsah 100cm

Page 1 of 1 100 words English (United States) Focus Page Width - + 175%

```
[Gabriels-MacBook-Pro-2:~ gabrielvalky$ convert
Version: ImageMagick 7.0.10-25 Q16 x86_64 2020-08-01 https://imagemagick.org
Copyright: © 1999-2020 ImageMagick Studio LLC
License: https://imagemagick.org/script/license.php
Features: Cipher DPC HDRI Modules OpenMP(3.1)
Delegates (built-in): bzlib freetype gslib heic jng jp2 jpeg lcms lqr ltdl lzma openexr png ps tiff webp xml zlib
Usage: convert [options ...] file [ [options ...] file ... ] [options ...] file

Image Settings:
-adjoin          join images into a single multi-image file
-affine matrix   affine transform matrix
-alpha option    activate, deactivate, reset, or set the alpha channel
-antialias       remove pixel-aliasing
-authenticate password
                  decipher image with this password
-attenuate value lessen (or intensify) when adding noise to an image
-background color background color
-bias value      add bias when convolving an image
-black-point-compensation
                  use black point compensation
-blue-primary point chromaticity blue primary point
-bordercolor color border color
-caption string  assign a caption to an image
-clip            clip along the first path from the 8BIM profile]
```





Programujeme...