

# Perl

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# Perl

## Practical Extraction and Retrieval Language

Spletna stran

<http://www.perl.org/>

Comprehensive Perl Archive Network

<http://www.cpan.org/>

Namestitev Perl za Windows

[www.activestate.com/store/activeperl](http://www.activestate.com/store/activeperl)

Uvod v Perl

<http://perldoc.perl.org/perlintro.html>

```
../doc/HelloWorld.pl
```

```
#!/usr/bin/perl
# A Perl 'Hello, world!' program
print "\nHello, world!\n";
print "=====\n";
```

```
> perl ../doc/HelloWorld.pl
```

```
Hello, world!
=====
```

# Malo mešan program

```
../doc/Hello.pl
```

```
#!/usr/bin/env perl
# http://perldoc.perl.org/perlintro.html
print "Hello, \nworld\n";
print 42;
my $animal = "camel";
my $answer = 42;
print $animal;
print "The animal is: $animal\n";
print "The square of $answer is ", $answer * $answer, "\n";
my @animals = ("camel", "llama", "owl");
my @numbers = (23, 42, 69);
my @mixed = ("camel", 42, 1.23);
print $animals[0], "\t"; # prints "camel" and tab character
print $animals[1]; # prints "llama"
#The special variable $#array tells you the index of the last element
print $mixed[$#mixed]; # last element, prints 1.23
<>; # wait for keyboard
```

## Izpis rezultata

```
> perl ../doc/Hello.pl
```

```
Hello,  
world  
42camelThe animal is: camel  
The square of 42 is 1764  
camel llama1.23
```

## Obrat sekvence - tr transliteration

```
../doc/revcomp.pl
```

```
#!/usr/bin/perl
# Program to convert a DNA string to its reverse compliment
# Get the input string
unless (@ARGV) {
    die "You need to pass me a DNA sequence!";
}

# Our DNA string
my $dna = $ARGV[0];

# First we reverse the DNA
my $revcom = reverse $dna;

# Now translate the DNA bases
$revcom =~ tr/ACGTacgt/TGCAtgca/;
# Then print out the results
print " Original DNA string: " . $dna . "\n";
print "Reverse compliment: " . $revcom . "\n";
<STDIN>;
```

## Obrat sekvence - izpis

```
> perl ../doc/revcomp.pl AACTGCGAT
```

```
Original DNA string: AACTGCGAT
```

```
Reverse compliment:  ATCGCAGTT
```

# Uporabnost

- manipulacija nizov znakov in besedil
- zlahka prenosljiv po spletu
- povezljiv z bazami podatkov in informacijami na spletu
- povezljiv z R , za nekatere uporabe učinkovitejši
- sintaksa drugačna od R , nekatere stvari pa podobne