

# Loops in awk

**Spoken Tutorial Project**

<http://spoken-tutorial.org>

**National Mission on Education through ICT**

<http://sakshat.ac.in>

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**7 January 2018**



# Learning Objectives

**We will learn about**



# Learning Objectives

**We will learn about**

- `while`



# Learning Objectives

## We will learn about

- while
- do.. while



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## We will learn about

- while
- do.. while
- for



# Learning Objectives

## We will learn about

- while
- do.. while
- for
- **more looping constructs**



# System Requirements



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- **Ubuntu Linux 16.04 OS**





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- **Ubuntu Linux 16.04 OS**
- **gedit text editor 3.20.1**



# Pre-requisites

- Please go through the earlier `awk` tutorials on <http://spoken-tutorial.org/>



# Pre-requisites

- Please go through the earlier `awk` tutorials on <http://spoken-tutorial.org/>
- You should have familiarity with any programming language like C or C++





# Code Files

- The files used in this tutorial are available in the Code Files link on this tutorial page
- Please download and extract them



# Loop

- A loop allows us to perform one or more actions repeatedly



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- A loop allows us to perform one or more actions repeatedly
- `while`



# Loop

- A loop allows us to perform one or more actions repeatedly
- `while`
- `do.. while`





# Loop

- A loop allows us to perform one or more actions repeatedly
- while
- do.. while
- for



# while

```
while (condition)  
{  
    body  
}
```



# do.. while

```
do {  
    body  
}  
while (condition)
```



# for

```
for (init; condition; increment)  
{  
    body  
}
```



# More looping constructs

- **break**



# More looping constructs

- **break**
- **continue**



# More looping constructs

- **break**
- **continue**
- **exit**



- awk will search `^#` for `$0`





# next

- awk will search  $\text{^}\#$  for \$0
- If found



# next

- awk will search  $\text{^}\#$  for  $\$0$
- If found
- **next** tells awk



# next

- awk will search  $\wedge\#$  for \$0
- If found
- next tells awk
- Stop **processing** current line



# next

- awk will search  $\text{^{\#}}$  for \$0
- If found
- next tells awk
- Stop **processing** current line
- **Resume execution from next line**



# next

- awk will search  $\text{^{\#}}$  for \$0
- If found
- next tells awk
- Stop **processing** current line
- Resume **execution** from next line
- **Save processing time**



- **awk should process two files**



# nextfile

- awk should process two files
- If `^###` of first file is reached



# nextfile

- awk should process two files
- If `^##` of first file is reached
- Stop **processing that file**





# nextfile

- awk should process two files
- If `^##` of first file is reached
- Stop processing that file
- Resume **execution from** next file



# nextfile

- awk should process two files
- If `^##` of first file is reached
- Stop processing that file
- Resume execution from next file
- Save processing time



# Summary

## We learnt about

- while
- do.. while
- for
- next
- nextfile



# Assignment

- For awkdemo2.txt file



# Assignment

- For awkdemo2.txt file
- **Print only even fields**



# Assignment

- For awkdemo2.txt file
- Print only even fields
- Example field 2, field 4



# About the Spoken Tutorial Project

- Watch the video available at [http://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](http://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



# Spoken Tutorial Workshops

## The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to [contact@spoken-tutorial.org](mailto:contact@spoken-tutorial.org)





# Forum for specific questions

- Do you have questions in **THIS Spoken Tutorial?**
- Please visit  
<http://forums.spoken-tutorial.org>
- Choose the minute and second where you have the question
- Explain your question briefly
- Someone from our team will answer them



# Acknowledgements

- Spoken Tutorial Project is a part of the Talk to a Teacher project
- It is supported by the National Mission on Education through ICT, MHRD, Government of India
- More information on this Mission is available at:

<http://spoken-tutorial.org/NMEICT-Intro>



# Thank You

Thanks for joining  
<http://spoken-tutorial.org>

