

The 19th International Conference on Web Engineering (ICWE-2019)

June 11 - 14, 2019 - Daejeon, Korea

Powerful Unix-Tools - tr

Andreas Schmidt

**Department of Informatics and
Business Information Systems
University of Applied Sciences Karlsruhe
Germany**

**Institute for Automation and Applied Informatics
Karlsruhe Institute of Technologie
Germany**

tr - command

- Purpose:

Translate, squeeze, and/or delete characters from standard input, writing to standard output.

- Translate: Mapping between characters, i.e.

- {A->a, B->b, ...}
- {A->*, E->*, I->*, O->*, U->*, }

- Examples:

- Translate to lowercase:

```
tr 'A-Z' 'a-z' < The-Adventures-of-Tom-Sawyer.txt
```

- Replace <newline> with <space>

```
tr '\n' ' ' < short-story.txt > one-liner.txt
```

tr - command

- Squeeze (remove duplicate characters):

```
{aa...a -> a, xx...x -> x, \n\n...\n->\n}
```

- Examples:

- Replace multiple space or newline-characters by a single representation of this character

```
tr -s ' \n' < papers/1587.txt
```

- Write each word in its own line

```
tr -c -s 'A-Za-z' '\n' < papers/1587.txt
```


complement flag

Further Examples ...

```
$ cat tr-demo.txt
1
2
3
4
5
6
7
$ tr < tr-demo.txt '\n' ' '
```

```
$ cat tr-demo2.txt
This is
paragraph one.

And this is
paragraph two.

Paragraph 3 is the
last one.
```

```
$ tr < tr-demo2.txt -s -c 'A-Za-z'
This is
paragraph one.
And this is
paragraph two.
Paragraph 3 is the
last one.
$ tr < tr-demo2.txt -sc 'A-Za-z' '\n'
This
is
paragraph
one
And
this
is
paragraph
two
Paragraph
is
the
last
one
```