LESSON 7

report.awk

```
{ count[$3]++ }
END {
  for (c in count)
    print c, count[c]
}
```

AWK

Arrays

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AWK SCRIPTING

LESSON 7

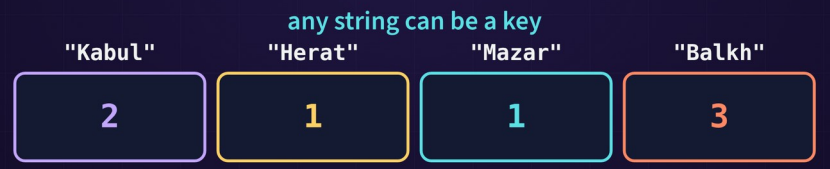
Associative Arrays

Counting, grouping, for-in loops, delete and split

Arrays with Any Key

report.awk

```
count[$3]++
```



- AWK arrays are associative: the index can be any string, not just a number. count of Kabul, …
- Like variables, arrays need no declaration and grow automatically. Think of them as a …

01

Counting and Summing by Group

by_city.awk

```
{ count[$3]++; sum[$3] += $2 }
END {
    for (city in count)
        printf "%-8s %3d students  avg %.1f\n", city, count[city], sum[city] / count[city]
}
```

- The classic AWK idiom is count of dollar three plus plus. It counts how many lines belong …
- The same idea sums by group: sum of dollar three plus equals dollar two gives the total …

02

Looping with for-in

terminal

```
$ awk '{ c[$3]++ } END { for (k in c) print c[k], k }' scores.txt | sort -rn
3 Balkh
2 Kabul
1 Herat

$ awk '!seen[$0]++' list.txt        # remove duplicate lines
```

- for key in array visits every key. The order is not guaranteed, so pipe the output into …
- Use in as a test, too: if key in array checks whether a key exists without creating it.

03

delete and split

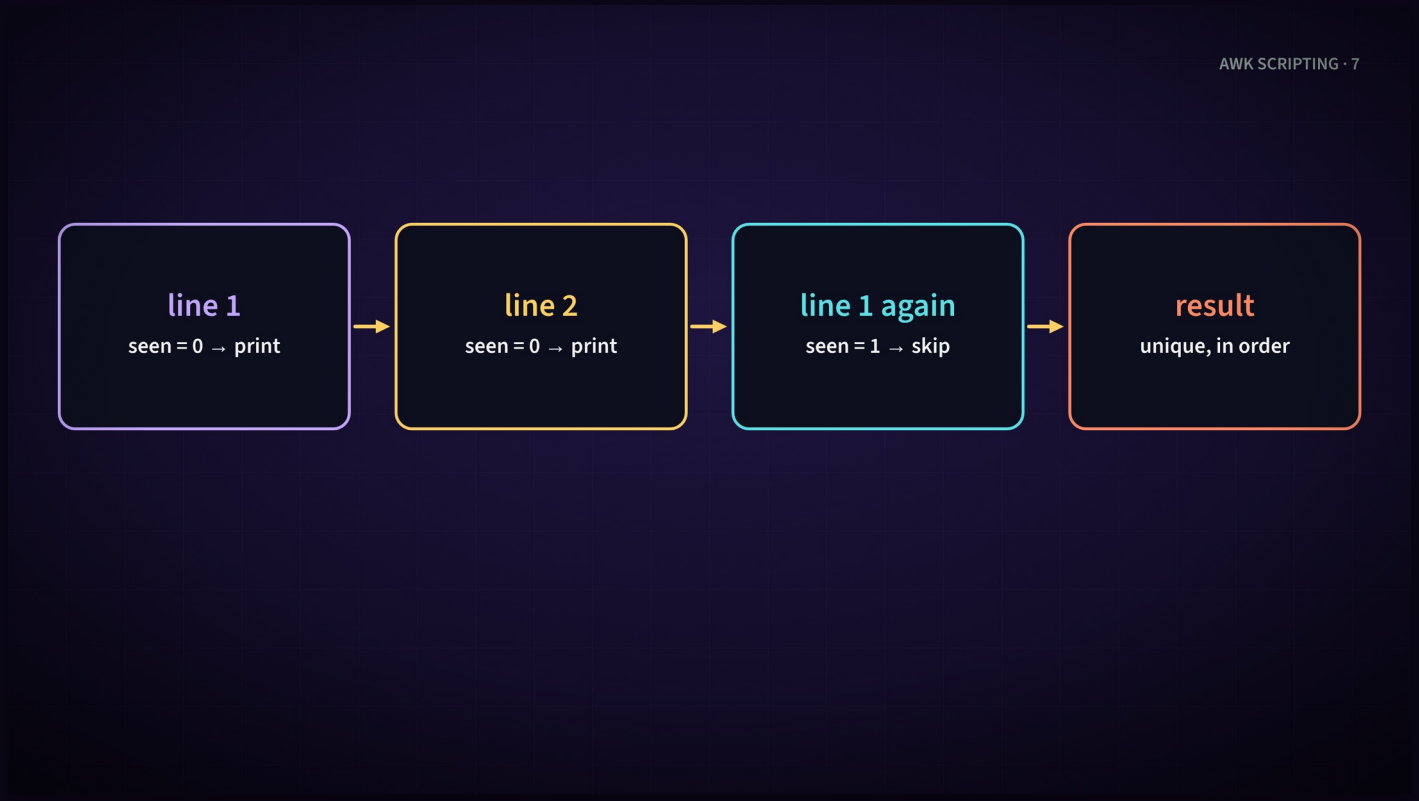
split.awk

```
{
    n = split($4, d, "-")          # 2026-10-24
    print "year", d[1], "month", d[2], "day", d[3]
    delete d                         # clear the array
}
```

- delete array of key removes one element, and delete array removes them all. split breaks a …
- split of a date with a dash as separator gives you year, month and day in elements one, two …

04

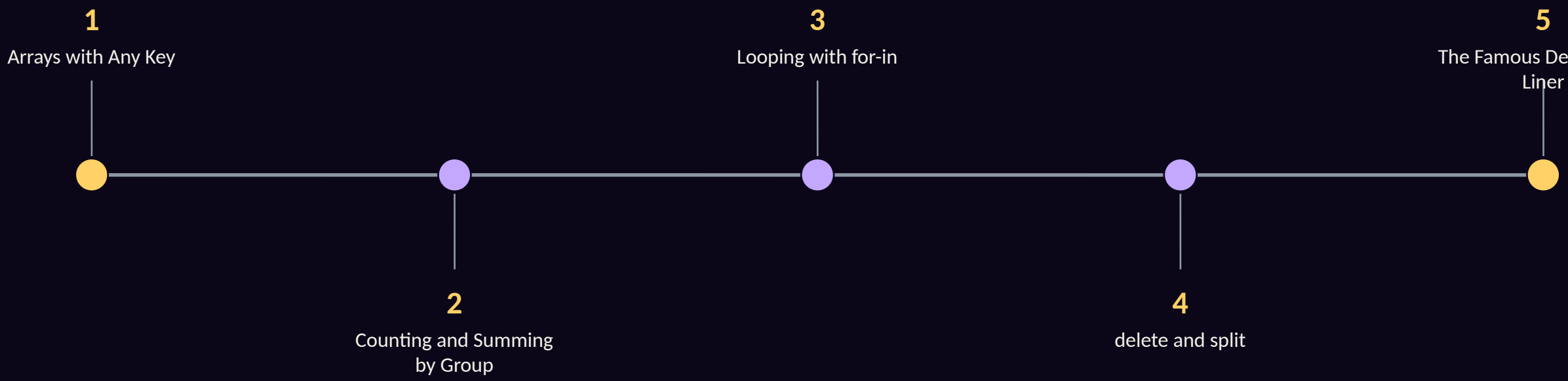
The Famous Dedup One-Liner



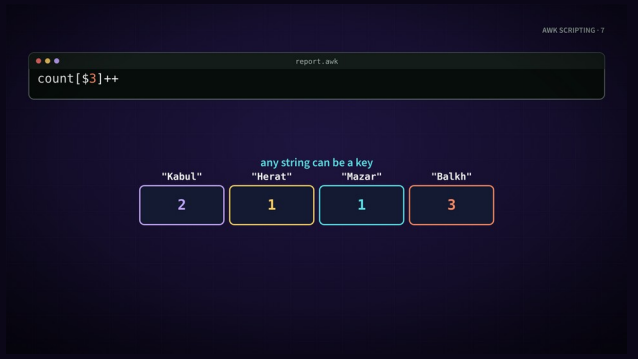
- line 1 — seen = 0 → print
- line 2 — seen = 0 → print
- line 1 again — seen = 1 → skip

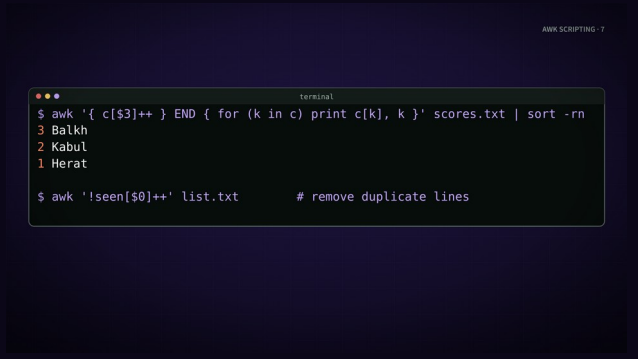
05

Lesson Map


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Arrays with Any Key
2
Counting and Summing by Group
3
Looping with for-in
4
delete and split
5
The Famous Dedup One-Liner

Sources and Further Reading





Thank you for watching

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