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Unique entries in a vector

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Unique entries in a vector

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It is surprising how often you need to know only the unique entries in a vector of entries. Matlab provides the `unique`` to solve these problems. The `:command: `unique`` command returns the sorted unique entries in a vector.

```
a = [1 1 2 3 4 5 3 5]
```

```
unique(a)
```

```
a =
```

```
1    1    2    3    4    5    3    5
```

```
ans =
```

```
1    2    3    4    5
```

The `unique`` command also works with cell arrays of strings.

```
a = {'a'
     'b'
     'abracadabra'
     'b'
     'c'
     'd'
     'b'}
```

```
unique(a)
```

```
a =
```

```
'a'
'b'
'abracadabra'
'b'
'c'
'd'
'b'
```

```
ans =
```

```
'a'
'abracadabra'
'b'
'c'
'd'
```

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There is more!

The `unique` command has some other features too. check them out:

help `unique`

UNIQUE Set unique.

`B = UNIQUE(A)` for the array `A` returns the same values as in `A` but with no repetitions. `B` will also be sorted. `A` can be a cell array of strings.

`UNIQUE(A,'rows')` for the matrix `A` returns the unique rows of `A`.

`[B,I,J] = UNIQUE(...)` also returns index vectors `I` and `J` such that `B = A(I)` and `A = B(J)` (or `B = A(I,:)` and `A = B(J,:)`).

`[B,I,J] = UNIQUE(...,'first')` returns the vector `I` to index the first occurrence of each unique value in `A`. `UNIQUE(...,'last')`, the default, returns the vector `I` to index the last occurrence.

See also `UNION`, `INTERSECT`, `SETDIFF`, `SETXOR`, `ISMEMBER`, `SORT`, `ISSORTED`.

Overloaded methods:

- `cell/unique`
- `dataset/unique`
- `RTW.unique`
- `categorical/unique`

Reference page in Help browser

`doc unique`

'done'

% categories: Miscellaneous

ans =

done

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