

Matlab Check Imaginary Numbers

back to [Fan's Reusable Matlab Repository](#) or [Dynamic Asset Repository](#).

Basic Examples

```
rng(123);

% Imaginary array
ar_img = rand([1,7]) + 1i*rand([1,7]);

% Regular Array
ar_real = rand([1,10]);

% Combine arrays
ar_full = [ar_real ar_img];
ar_full = ar_full(randperm(length(ar_full))));
disp(ar_full);
```

Columns 1 through 7

0.6344 + 0.0000i 0.1755 + 0.0000i 0.5316 + 0.0000i 0.2861 + 0.4809i 0.7380 + 0.0000i 0.1825 + 0.0000i

Columns 8 through 14

0.2269 + 0.3921i 0.7245 + 0.0000i 0.8494 + 0.0000i 0.6110 + 0.0000i 0.4231 + 0.4386i 0.9808 + 0.0597i

Columns 15 through 17

0.3980 + 0.0000i 0.5513 + 0.3432i 0.7195 + 0.7290i

```
% real index
disp(~imag(ar_full));
```

1 1 1 0 1 1 0 0 1 1 1 0 0 1 1 0 0

```
% Get Real and not real Components
disp(ar_full(imag(ar_full) == 0));
```

0.6344 0.1755 0.5316 0.7380 0.1825 0.7245 0.8494 0.6110 0.5318 0.3980

```
disp(ar_full(imag(ar_full) ~= 0));
```

0.2861 + 0.4809i 0.6965 + 0.6848i 0.2269 + 0.3921i 0.4231 + 0.4386i 0.9808 + 0.0597i 0.5513 + 0.3432i