

# Práctico 0 - 2023

Sintaxis de Octave

# Definición de funciones

```
function name  
  body  
endfunction
```

```
function name (arg-list)  
  body  
endfunction
```

```
function ret-var = name (arg-list)  
  body  
endfunction
```

# if, for, while

```
if (condition)
  then-body
elseif (condition)
  elseif-body
else
  else-body
endif
```

```
for var = expression
  body
endfor
```

```
for i = 3:10
```

```
while (condition)
  body
endwhile
```

# Matrices y vectores

```
a = [1, 2; 3, 4]
```

```
a =  
  /      \  
  | 1  2 |  
  | 3  4 |  
  \  
  /
```

```
eye (3)  
⇒ 1  0  0  
   0  1  0  
   0  0  1
```

```
zeros (m, n)
```

# Acceder a elementos de una matriz

```
>> A=[9,8,7;6,5,4;3,2,1]
```

```
A =
```

```
 9   8   7
 6   5   4
 3   2   1
```

```
>> A(1,2)
```

```
ans = 8
```

```
>> A(2,:) 
```

```
ans =
```

```
 6   5   4
```

```
>> A(:,1)
```

```
ans =
```

```
 9
 6
 3
```