



DarkBasic Pro

Entrada e Saída I/O

- Arquivos... (aula anterior)

- Teclado



- Mouse

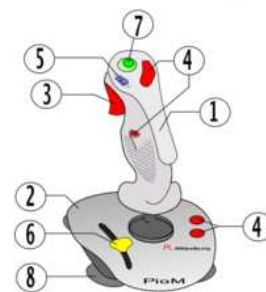


- GamePad: JoyPad Controller



- JoyStick

- o Force Feed-Back
- o Steering Wheel



- Outros dispositivos: http://en.wikipedia.org/wiki/Input_device



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Entrada **TECLADO**

```
if inkey$()="j" then print "Teclou a letra [j]"  
if inkey$()="J" then print "Teclou a letra [J]"
```

```
if shiftkey() then print "Tecla SHIFT está pressionada"  
if controlkey() then print "Tecla CONTROL está pressionada"
```

```
upkey()      ↑  
downkey()    ↓  
leftkey()    ←  
rightkey()   →
```

```
returnkey()  Enter  
spacekey()  Espaço  
escapekey() Esc
```

```
wait key()   Qualquer tecla
```

SCANCODE()
KEYSTATE(Scancode)





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Entrada **MOUSE**

Mouse => Dispositivo de posicionamento **2D (em coordenadas de tela!)**

SHOW MOUSE - Exibe o cursor do mouse

HIDE MOUSE - Oculta o cursor do mouse

POSITION MOUSE X,Y - Coloca o mouse na posição estabelecida

MOUSECLICK : Return Integer=MOUSECLICK()

MOUSEMOVEX : Return Integer=MOUSEMOVEX()

MOUSEMOVEY : Return Integer=MOUSEMOVEY()

MOUSEMOVEZ : Return Integer=MOUSEMOVEZ()

MOUSEX : Return Integer=MOUSEX()

MOUSEY : Return Integer=MOUSEY()

MOUSEZ : Return Integer=MOUSEZ()

WAIT MOUSE





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Entrada **GAMEPAD**

JoyPad / GamePad => USUALMENTE: Dispositivo Digital! (como o teclado)





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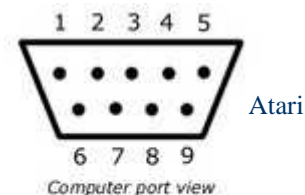
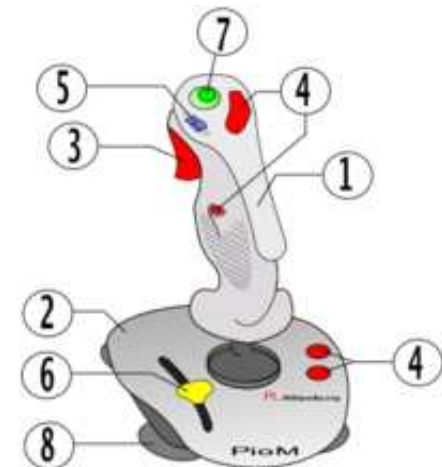
Entrada JOYSTICK

Joystick => Dispositivo Analógico!

Elementos de um Joystick :

1. Stick (manete)
2. Holder (base)
3. Fire button
4. Extra buttons
5. Autofire switch
6. Throttle
7. Hat Switch (POV Hat)
8. Suction Cup

http://en.wikipedia.org/wiki/Input_device



- Atari
- Computer port view
- | | |
|-------------|------------------|
| 1, up | 6, fire button |
| 2, down | 7, + 5VDC |
| 3, left | 8, ground |
| 4, right | 9, not connected |
| 5, reserved | |





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Entrada **Outros dispositivos...**

Track Ball
Touch Pad
Graphics Tablet

Motion Track:

- Data Glove / CyberGlove
http://www.inition.co.uk/inition/products.php?CatID_=12
- 3D Position (Flock)
http://www.inition.co.uk/inition/products.php?CatID_=11
- 3D Motion Track
http://www.inition.co.uk/inition/product_mocaptrack_digitalimage_monkey.php
- 3D Delta (Accelerometer / Gyroscope)
<http://www.analog.com/en/cat/0,2878,764,00.html>

Network, WebCam, Voice! **Haptic Interfaces!**