



**Tecnológico
de Monterrey**

Visión para Robots

Tarea 05:

“Patrones”

Kennia Jackeline Sánchez Castillo A00517129

Profe. Braian Rodriguez

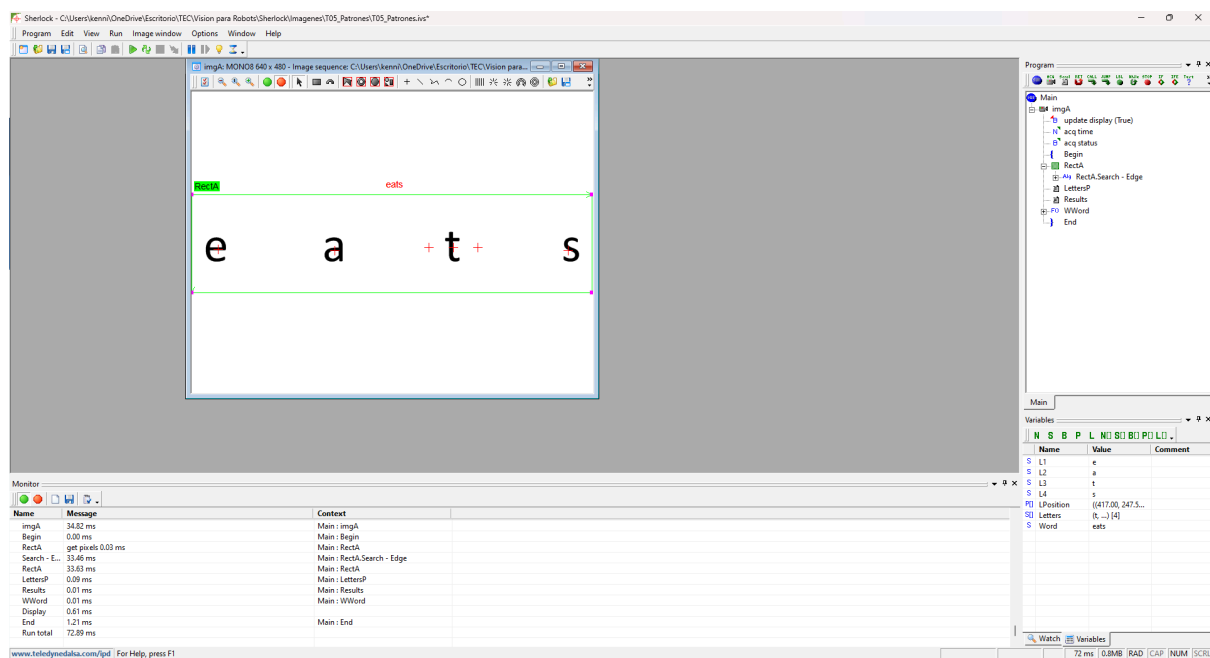
Monterrey, Nuevo León

13 de Mayo, 2024

Instrucciones:

Usar las imágenes encontradas en la carpeta adjunta para este problema. Cada imagen contiene una palabra formada por 4 letras. Escriba una inspección de Sherlock que haga lo siguiente:

- a) Usar la coincidencia de patrones para resolver este problema (search edge es recomendado).
- b) Entrenar el clasificador para reconocer cada una de las cuatro letras
- c) Reconoce la palabra completa que se muestra en la pantalla para cada imagen y muéstrala en la pantalla de inspección como texto.



Sherlock - C:\Users\kenn\OneDrive\Escritorio\TECVision para Robots\Sherlock\Imagenes\T05_Patrones\T05_Patrones.ivs*

Program Edit View Run Image window Options Window Help

imgA: MON08 640 x 480 - Image sequence: C:\Users\kenn\OneDrive\Escritorio\TECVision para...

rectA east

e a s + t

Monitor

Name	Message	Context
imgA	39.59 ms	Main : imgA
Begin	0.00 ms	Main : Begin
RectA	get pixels 0.06 ms	Main : RectA
Search - E...	28.59 ms	Main : RectA.Search - Edge
RectA	29.00 ms	Main : RectA
LettersP	0.94 ms	Main : LettersP
Results	0.05 ms	Main : Results
WWord	0.02 ms	Main : WWord
Display	0.58 ms	Main : WWord
End	1.18 ms	Main : End
Run total	73.34 ms	

www.teledynedatata.com/ipid For Help, press F1

Program

```
Main
imgA
  update display (True)
  acq time
  acq status
  Begin
  RectA
  RectA.Search - Edge
  LettersP
  Results
  WWord
  End
```

Variables

Name	Value	Comment
S L1	e	
S L2	a	
S L3	s	
S L4	t	
LettersP	((807.30, 247.5...	
Word	east	

Watch Variables

75 ms 0.8MB RAD CAP NUM SCRL

Sherlock - C:\Users\kenn\OneDrive\Escritorio\TECVision para Robots\Sherlock\Imagenes\T05_Patrones\T05_Patrones.ivs*

Program Edit View Run Image window Options Window Help

imgA: MON08 640 x 480 - Image sequence: C:\Users\kenn\OneDrive\Escritorio\TECVision para...

rectA east

s e a + t

Monitor

Name	Message	Context
imgA	34.23 ms	Main : imgA
Begin	0.00 ms	Main : Begin
RectA	get pixels 0.03 ms	Main : RectA
Search - E...	29.12 ms	Main : RectA.Search - Edge
RectA	29.20 ms	Main : RectA
LettersP	0.14 ms	Main : LettersP
Results	0.03 ms	Main : Results
WWord	0.01 ms	Main : WWord
Display	0.59 ms	Main : WWord
End	0.77 ms	Main : End
Run total	67.56 ms	

www.teledynedatata.com/ipid For Help, press F1

Program

```
Main
imgA
  update display (True)
  acq time
  acq status
  Begin
  RectA
  RectA.Search - Edge
  LettersP
  Results
  WWord
  End
```

Variables

Name	Value	Comment
S L1	s	
S L2	e	
S L3	a	
S L4	t	
LettersP	((604.29, 246.3...	
Word	sest	

Watch Variables

67 ms 0.8MB RAD CAP NUM SCRL

Sherlock - C:\Users\kenn\OneDrive\Escritorio\TECVision para Robots\Sherlock\imagenes\T05_Patrones\T05_Patrones.ivs*

Program Edit View Run Image window Options Window Help

imgA: MON08 640 x 480 - Image sequence: C:\Users\kenn\OneDrive\Escritorio\TECVision para...

rectA

t e s

Program

```
Main
imgA
  update display (True)
  acq time
  acq status
  Begin
  RectA
  RectA.Search - Edge
  Results
  WWord
  End
```

Variables

Name	Value	Comment
L1	t	
L2	e	
L3	a	
L4	s	
LPosition	{(392.26, 245.5...	
Letters	{s...} [4]	
Word	tees	

Monitor

Name	Message	Context
imgA	34.30 ms	Main : imgA
Begin	0.00 ms	Main : Begin
RectA	get pixels 0.03 ms	Main : RectA
Search - E...	30.76 ms	Main : RectA.Search - Edge
RectA	30.83 ms	Main : RectA
LettersP	0.29 ms	Main : LettersP
Results	0.20 ms	Main : Results
WWord	0.01 ms	Main : WWord
Display	0.68 ms	Main : WWord
End	1.23 ms	Main : End
Run total	69.07 ms	

www.teledynedatata.com/ipd For Help, press F1

69 ms 0.8MB RAD CAP NUM SCRL

Sherlock - C:\Users\kenn\OneDrive\Escritorio\TECVision para Robots\Sherlock\imagenes\T05_Patrones\T05_Patrones.ivs*

Program Edit View Run Image window Options Window Help

imgA: MON08 640 x 480 - Image sequence: C:\Users\kenn\OneDrive\Escritorio\TECVision para...

rectA

e a s e

Program

```
Main
imgA
  update display (True)
  acq time
  acq status
  Begin
  RectA
  RectA.Search - Edge
  Results
  WWord
  End
```

Variables

Name	Value	Comment
L1	e	
L2	a	
L3	s	
L4	e	
LPosition	{(42.75, 252.63)...}	
Letters	{e...} [4]	
Word	ease	

Monitor

Name	Message	Context
imgA	33.51 ms	Main : imgA
Begin	0.00 ms	Main : Begin
RectA	get pixels 0.02 ms	Main : RectA
Search - E...	30.21 ms	Main : RectA.Search - Edge
RectA	30.43 ms	Main : RectA
LettersP	0.10 ms	Main : LettersP
Results	0.02 ms	Main : Results
WWord	0.01 ms	Main : WWord
Display	0.97 ms	Main : WWord
End	3.78 ms	Main : End
Run total	71.63 ms	

www.teledynedatata.com/ipd For Help, press F1

71 ms 0.8MB RAD CAP NUM SCRL

www.teledynedata.com/lid For Help, press F1

www.teledynedaka.com/ind For Help, press F1

Sherlock - C:\Users\kenn\OneDrive\Escritorio\TEC\Vision para Robots\Sherlock\Imagenes\T05_Patrones\T05_Patrones.live*

Program Edit View Run Image window Options Window Help

imgA: MOND8 640 x 480 - Image sequence: C:\Users\kenn\OneDrive\Escritorio\TEC\Vision para...

rectA

stat

s t a 7

Program

Main

- imgA
 - update display (True)
 - acq time
 - acq status
 - Begin
 - RectA
 - RectA.Search - Edge
 - LettersP
 - Results
 - WWord
 - End

Monitor

Name	Message	Context
imgA	36.55 ms	Main : imgA
Begin	0.00 ms	Main : Begin
RectA	get pixels 0.05 ms	Main : RectA
Search - E...	23.06 ms	Main : RectA.Search - Edge
RectA	23.39 ms	Main : RectA
LettersP	1.02 ms	Main : LettersP
Results	0.14 ms	Main : Results
WWord	0.03 ms	Main : WWord
Display	0.65 ms	Main : End
End	0.82 ms	
Run total	64.16 ms	

Variables

N	S	B	P	L	N	B	L	P	L
Name									
L1									
L2									
L3									
L4									
LPosition									
Letters									
Word									

64 ms 0.8MB RAD CAP NUM SCRL