
→

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monospace

Windows

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Windows

""National Instruments"

*?prog*programprogrammatically
progress

1?extnexttext



example AND (program OR VI)example
programexmaple VI5



- **AND—**
- **OR—**
- **NOT—2**
- **NEAR—**

- —
- —programprogramsprogrammatically
progress
- —

Windows

1.

2.

3.



1

4. **OK**

PDF

PDFPDFAdobe Reader

NI

1

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1. NI

- a. Vision Builder for Automated Inspection Vision Builder AI
Vision Assistant /
- b. Vision Builder AI Vision Assistant → → **National
Instruments** → **Vision** → **Classification Training**

2. Tutorial.clf **OK**

3.

- **NI Vision Vision Assistant**

- a. →

- b. <Vision>\Images\Classification Tutorial <Vision>
NI Vision

- c.

- [Parts00.png](#)
- [Parts01.png](#)
- [Bolt00.png](#)
- [Bolt01.png](#)
- [Motor00.png](#)
- [Motor01.png](#)

<Ctrl>

- d.

- **Vision Builder AI**

- a. <Vision Builder AI>\DemoImg\Classification <Vision
Builder AI> Vision Builder AI

- b.

- [Parts00.png](#)
- [Parts01.png](#)
- [Bolt00.png](#)
- [Bolt01.png](#)

- [Motor00.png](#)
- [Motor01.png](#)

<Ctrl>

c.

4.

5. _____ Parts00.png

6. 2

7. ROI



ROIROI

ROI

NIROI2ROI

8.

9. **OK**

10. Parts01.png

11. ROI

12.

13.

14. Bolt00.png

15. ROI

16. ROI1 1000

17. Bolt01.png

18. ROI

19. ROI

19. _____ Parts00.png

20. 2

21. ROI



ROIROIROI
ROI



NIROI2ROI

22.

23. **OK**

24. Parts01.png

25. ROI



26.

27.

28. Motor00.png

29. ROI



30. ROI

31. Motor01.png

32. ROI



33. ROI

-
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-
-

- 1.
- 2.
- 3.
4. →

Tutorial.clf

NI

1. →

2. **OK**



<Ctrl>



3. ROI

4. _____

5.

OK

6.

NI

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2. →

3. **OK**



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4. ROI

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NI

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3. **ROIROI**



ROI



ROI

4.



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3. **ROIROI**



ROI

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- 2
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4. **ROI** ROI

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ROI —

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Manhattan metricTaxicab metric

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ROI

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- 1.
2. 010000
- 3.
4. 010000

ROI —

LabVIEW LabWindows/CVI Microsoft Visual Basic NI

- LabVIEW —
<LabVIEW>\Examples\Vision\2.Functions\Classification\Classification.vi
.<LabVIEW>LabVIEW
- LabWindows/CVI —
<CVI>\Samples\Vision\2.Functions\Classification\Classification.prj_____
- Microsoft Visual Basic —
<Vision>\Examples\MSVB\2.Functions\Classification\Classification.vbp_
.<Vision>Vision

LabVIEW

LabVIEW [NI](#)

LabVIEW

1. <LabVIEW>\Examples\Vision\2.Functions\Classification
Classification.vi <LabVIEW>LabVIEW
2. VI
3. **Classifier File Path**NI Tutorial.clf
4. **Load File**
5. ROI **Classify**
6. **Return**

LabWindows/CVI

LabWindows/CVI [NI](#)

LabWindows/CVI

1. <CVI>\Samples\Vision\2.Functions\Classification\Classification.prj
<CVI>LabWindows/CVI
2. **Build** → **Configuration** → **Debug** **Run** → **Debug**
Classification_dbg.exe
3. **BrowseNI** Tutorial.clf
4. **Load File1** **Load**
5. ROI **Classify**
6. **Return**

National Instruments Corporation

(1) National Instruments CorporationNI

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[Worldwide Offices](#)

[ni.com/nigl](#)

Microsoft Visual Basic

Microsoft Visual Basic [NI](#)

Microsoft Visual Basic

1. <Vision>\Examples\MSVB\2.Functions\Classification
Classification.vbp <Vision>Vision
- 2.
3. **BrowseNI** Tutorial.clf
4. **Load File1** **Open**
5. ROI **Classify**
6. **Return**

	972 0 3 6393737
	39 02 413091
	91 80 41190000
	44 (0) 1635 523545
	1800 300 800
	43 662 457990-0
	31 (0) 348 433 466
	800 433 3488
	82 02 3451 3400
	1800 226 5886
	41 56 2005151
	46 (0) 8 587 895 00
	34 91 640 0085
	386 3 425 42 00
	662 278 6777
	886 02 2377 2222
	86 21 6555 7838
	420 224 235 774
	45 45 76 26 00
	49 89 7413130
	90 212 279 3031
	0800 553 322
	81 3 5472 2970
	47 (0) 66 90 76 60
	385 (0) 9 725 72511
	33 (0) 1 48 14 24 24
	512 683 0100
	32 (0) 2 757 0020
	55 11 3262 3599

	48 22 3390150
	351 210 311 210
	1800 887710
	27 0 11 805 8197
	01 800 010 0793
	961 (0) 1 33 28 28
	7 495 783 6851