

CS462 Image Processing

Chapter 8

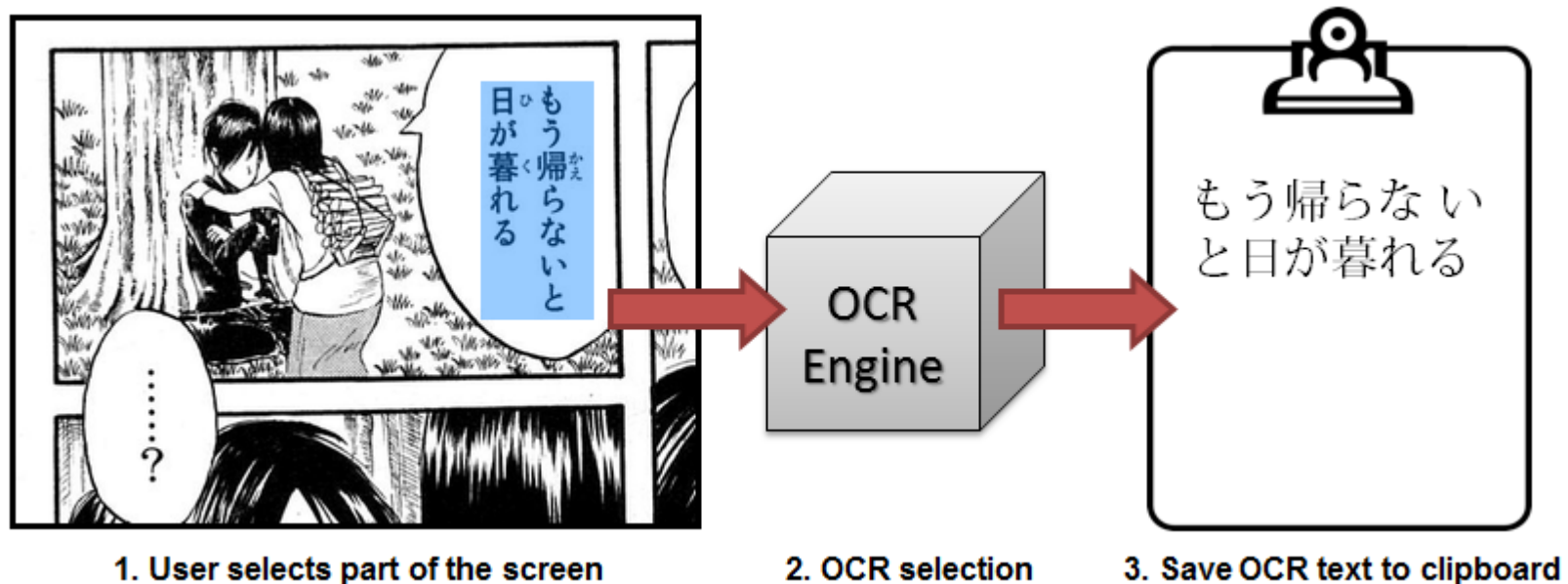
Optical Character Recognition

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Optical character recognition : (OCR)

OCR (optical character recognition) is the recognition of printed or written textcharacters by a computer. This involves photoscanning of the text character-by-character, analysis of the scanned-in image, and then translation of the character image into character codes, such as ASCII, commonly used in data processing.



Optical character recognition : (OCR)

- Online OCR



- Accurate
- Simple

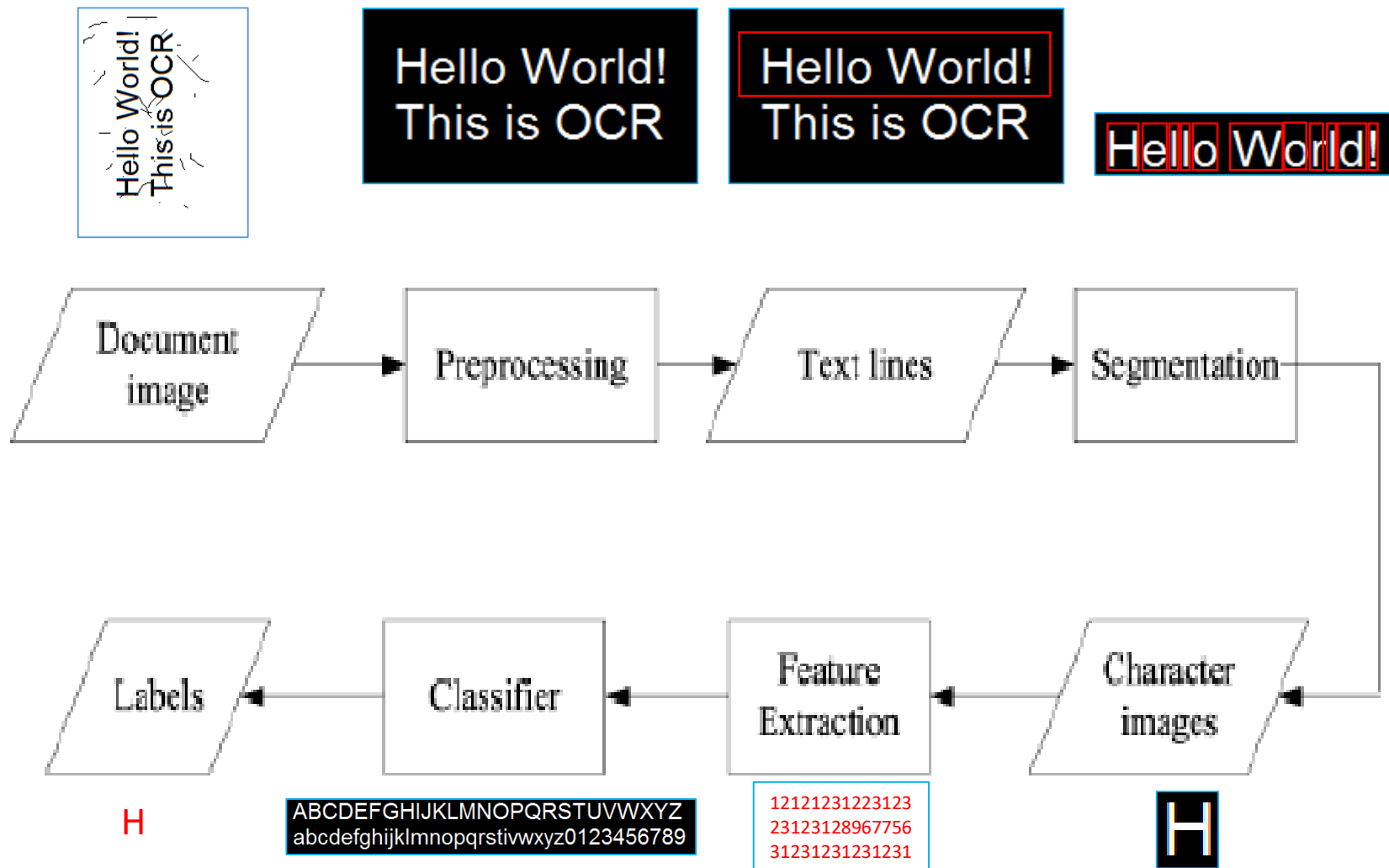
Optical character recognition : (OCR)

- Offline OCR



- Inaccurate
- Complex

Optical character recognition : (OCR)



Optical character recognition : (OCR)












[illegible]

GillSansMT-BoldItalic gilbi____.ttf	0123456789 ABCDEFabcdef
GillSansMT-Bold gilb____.ttf	0123456789 ABCDEFabcdef
GillSansMT-BoldCondensed gilcb____.ttf	0123456789 ABCDEFabcdef
GillSansMT-Condensed gilc____.ttf	0123456789 ABCDEFabcdef
GillSansMT-ExtraBold gile____.ttf	0123456789 ABCDEFabcdef
GillSansMT-Italic gili____.ttf	0123456789 ABCDEFabcdef
GillSansMT-LightItalic gilli____.ttf	0123456789 ABCDEFabcdef
GillSansMT-Light gill____.ttf	0123456789 ABCDEFabcdef
GillSansMT-UltraBold gilu____.ttf	0123456789 ABCDEFabcdef
GillSansMT gil____.ttf	0123456789 ABCDEFabcdef
GillSans-BoldExtraCondensed gnbxc____.ttf	0123456789 ABCDEFabcdef
GillSans-LightShadowed gnls____.ttf	0123456789 ABCDEFabcdef
GillSans-Shadowed gns____.ttf	0123456789 ABCDEFABCDEF
GillSansMT-UltraBoldCondensed gnubc____.ttf	0123456789 ABCDEFabcdef
GillSans-ExtraBoldDisplay gnxbd____.ttf	0123456789 ABCDEFabcdef

Optical character recognition : (OCR)



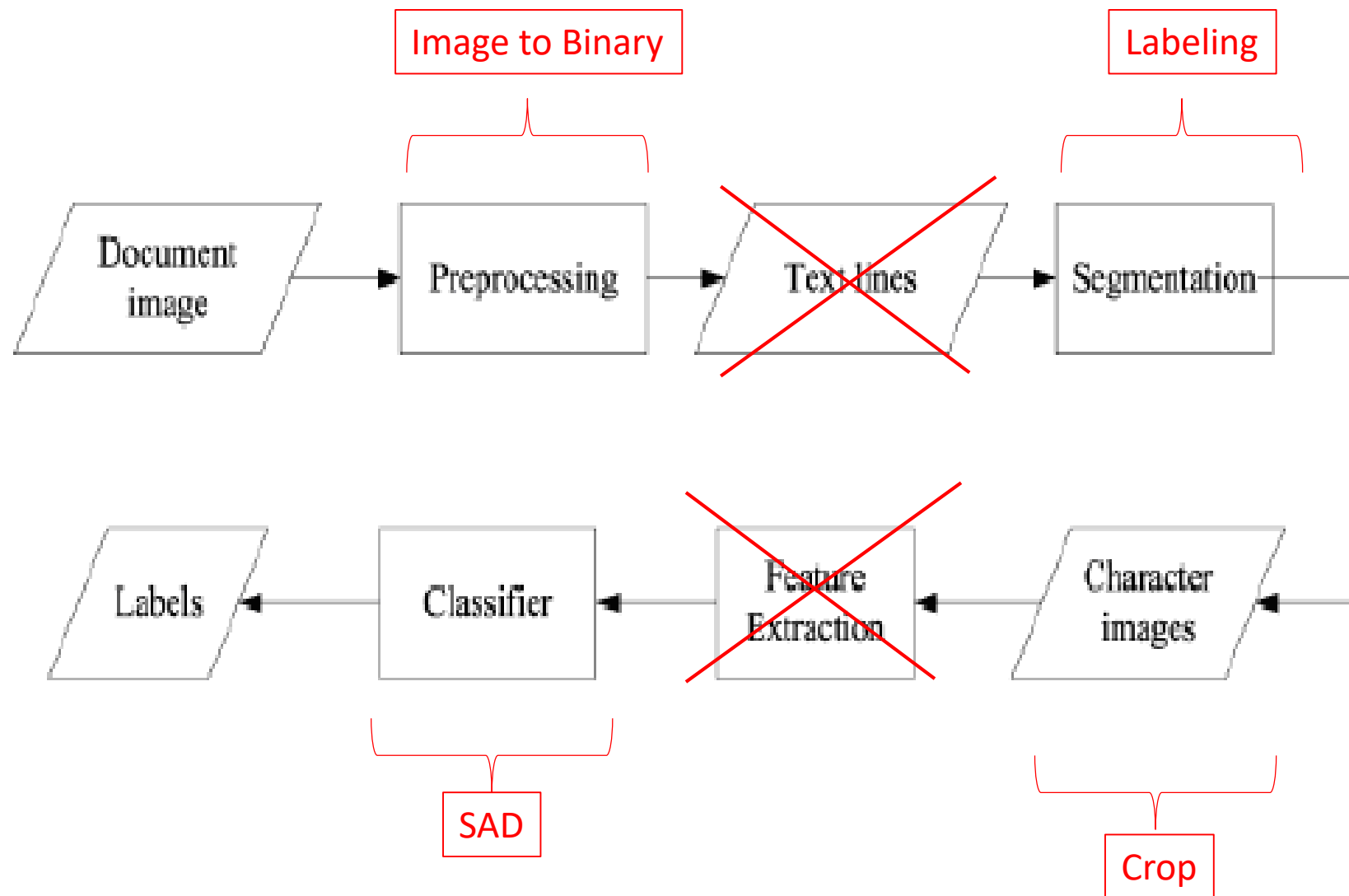
OCR A Font

	244	245
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
A		

Unicode ORC font



Optical character recognition : (OCR)



Optical character recognition : (OCR)

0 1 2 3 4 5 6 7 8 9

Template 1

0 1 2 3 4 5 6 7 8 9

Template 2