

OpenCV Image Threshold

The basic concept of the threshold is that more simplify the visual data for analysis. When we convert the image into gray-scale, we have to remember that grayscale still has at least 255 values. The threshold is converted everything to white or black, based on the threshold value. Let's assume we want the threshold to be 125(out of 255), then everything that was under the 125 would be converted to 0 or black, and everything above the 125 would be converted to 255, or white. The syntax is as follows:

```
retval,threshold = cv2.threshold(src, thresh, maxValue, cv2.THRESH_BINARY_INV)
```

Parameters-

src: Source image, it should be a grayscale image.

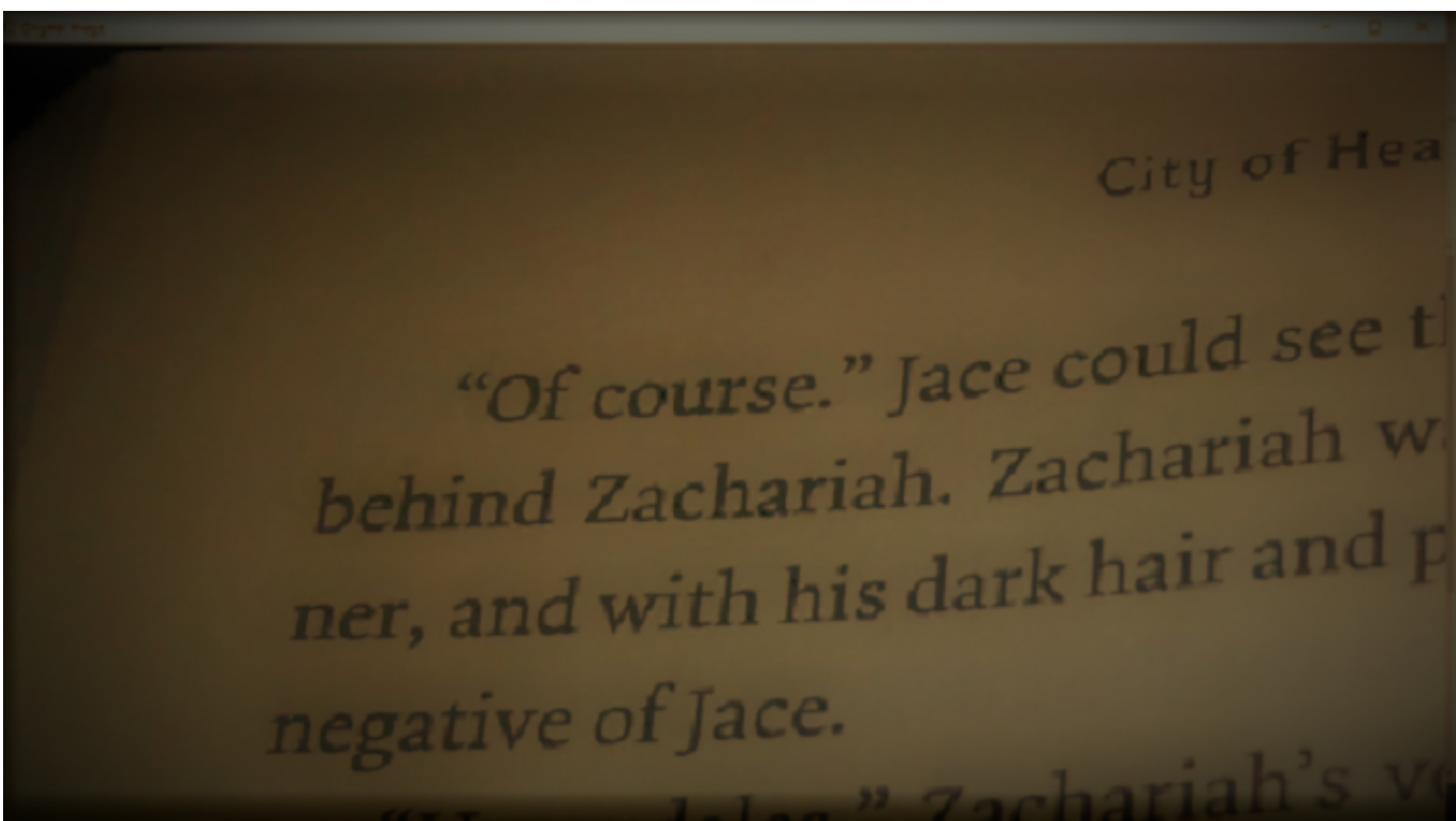
thresh: It is used to classify the pixel value.

maxVal: It represents the value to be given if the pixel threshold value.

OpenCV provides different styles of threshold that is used as fourth parameter of the function. These are the following:

- cv2.THRESH_BINARY
- cv2.THRESH_BINARY_INV
- cv2.THRESH_TRUNC
- cv2.THRESH_TOZERO
- cv2.THRESH_TOZERO_INV

Let's take a sample input image

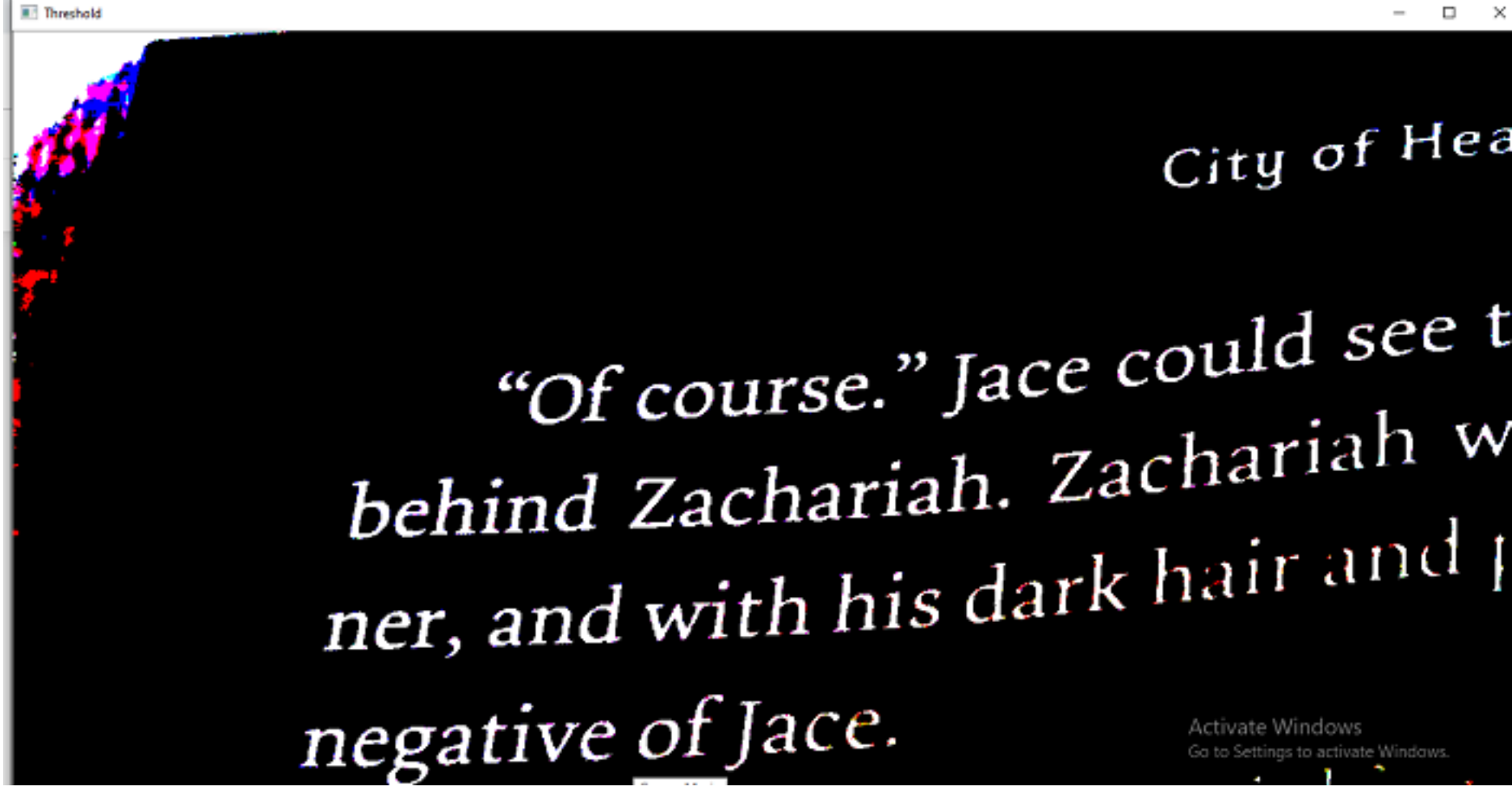


We have taken above image as an input. We describe how threshold actually works. The above image is slightly dim and little bit hard to read. Some parts are light enough to read, while other part is required more focus to read properly.

Let's consider the following example:

```
import cv2
img = cv2.imread(r'C:\Users\DEVANSH SHARMA\book1.jpg',1)
retval, threshold = cv2.threshold(img, 62, 255, cv2.THRESH_BINARY)
cv2.imshow("Original Image", img)
cv2.imshow("Threshold",threshold)
cv2.waitKey(0)
```

Output:



The above program highlighted the image. Now we can easily read the content of the image.

Next Topic OpenCV Contours

← prev

next →

Help Others, Please Share



Join Javatpoint Test Series

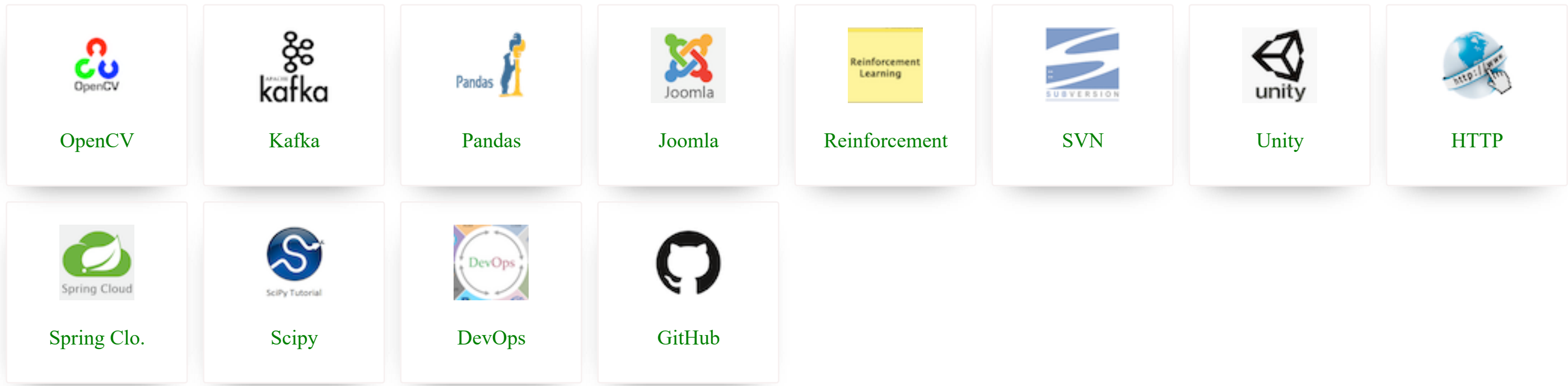
Placement Papers
TCS
HCL
Infosys
IBM
Accenture

AMCAT
eLitmas
Java
Python
C Programming
Networking

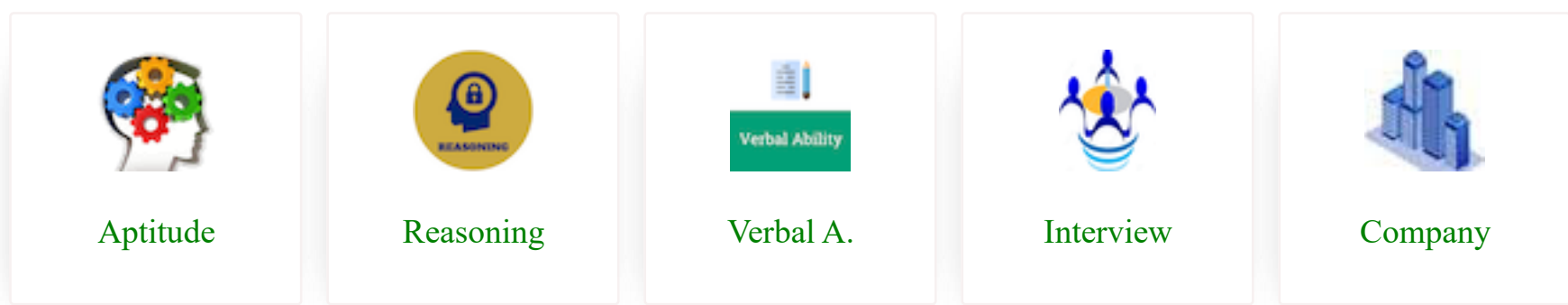
Bank PO/Clerk
UPSSSC
Government Exams
SSC
Civil Services
SBI

GATE
NEET
CAT
Railway
CTET
IIT JEE

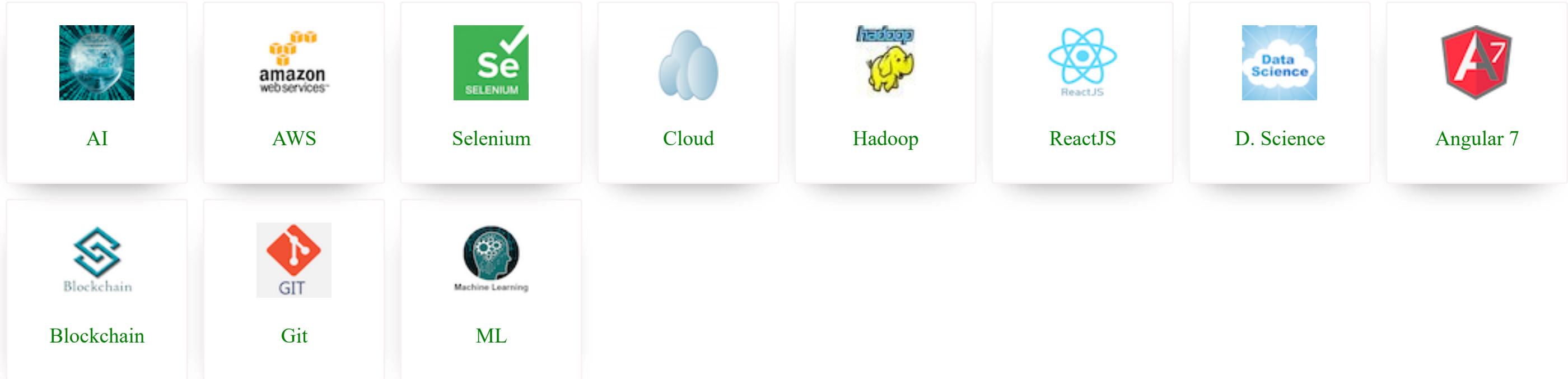
Learn Latest Tutorials



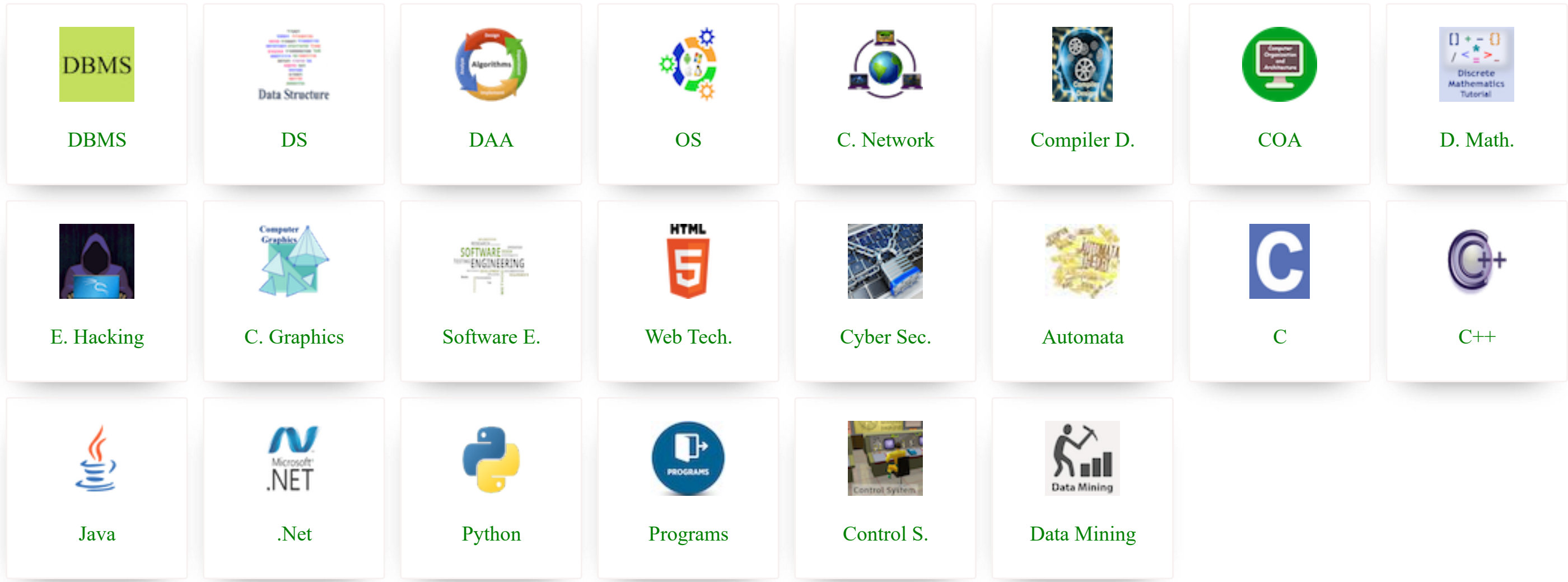
Preparation



Trending Technologies



B.Tech / MCA



Javatpoint Services

JavaTpoint offers too many high quality services. Mail us on hr@javatpoint.com, to get more information about given services.

- Website Designing
- Website Development
- Java Development
- PHP Development
- WordPress
- Graphic Designing
- Logo
- Digital Marketing
- On Page and Off Page SEO
- PPC
- Content Development
- Corporate Training
- Classroom and Online Training
- Data Entry

Training For College Campus

JavaTpoint offers college campus training on Core Java, Advance Java, .Net, Android, Hadoop, PHP, Web Technology and Python. Please mail your requirement at hr@javatpoint.com.

Duration: 1 week to 2 week

Like/Subscribe us for latest updates or newsletter



LEARN TUTORIALS

Learn Java
Learn Data Structures
Learn C Programming
Learn C++ Tutorial
Learn C# Tutorial
Learn PHP Tutorial
Learn HTML Tutorial
Learn JavaScript Tutorial
Learn jQuery Tutorial
Learn Spring Tutorial

OUR WEBSITES

Javatpoint.com
Hindi100.com
Lyricsia.com
Quoteperson.com
Jobandplacement.com

OUR SERVICES

Website Development
Android Development
Website Designing
Digital Marketing
Summer Training
Industrial Training
College Campus Training

CONTACT

Address: G-13, 2nd Floor, Sec-3
Noida, UP, 201301, India
Contact No: 0120-4256464, 9990449935
Contact Us
Subscribe Us
Privacy Policy
Sitemap