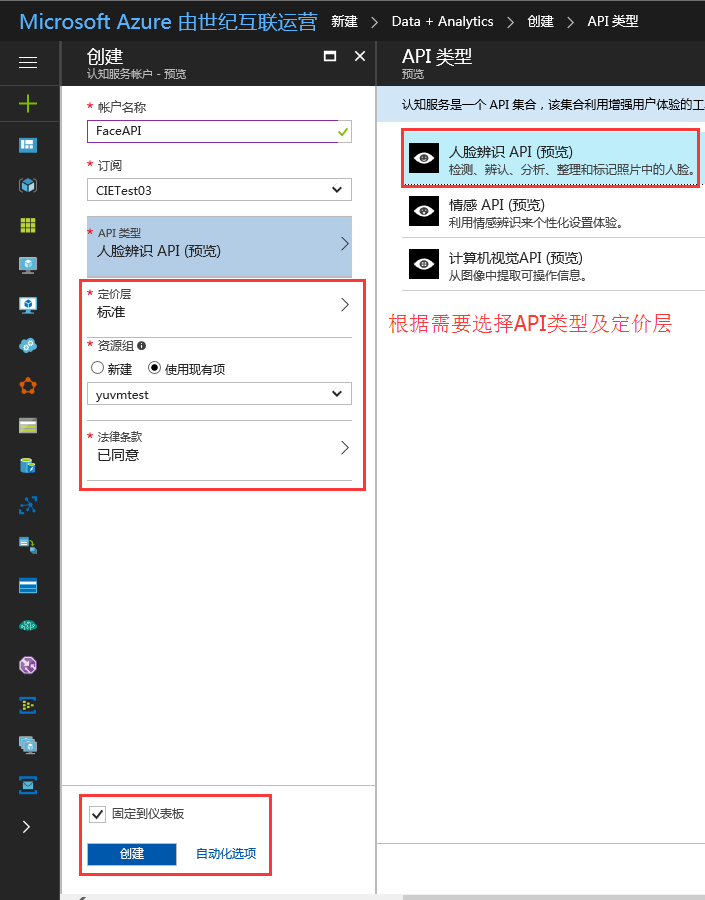
## 中国版认知服务使用指导

认知服务为开发者提供了一组API和SDK，从而将微软公司不断演进的人工智能技术扩展到广大开发者手中。通过认知服务，你的应用可以轻松地获得智能。首批登陆[中国的API](https://www.azure.cn/documentation/services/cognitive-services/)包括人脸识别、情绪识别和计算机视觉。本文主要介绍认知服务的创建，控制台快速测试，多种语言的测试调用。本文以Face API的detect方法为例进行演示。

#### 认知服务的创建

1. 登陆到China Azure管理门户，登陆网址：<https://portal.azure.cn>
2. 新建Face API (新建 -> Data+Analytics -> 认知服务)：



1. 获取服务的key：

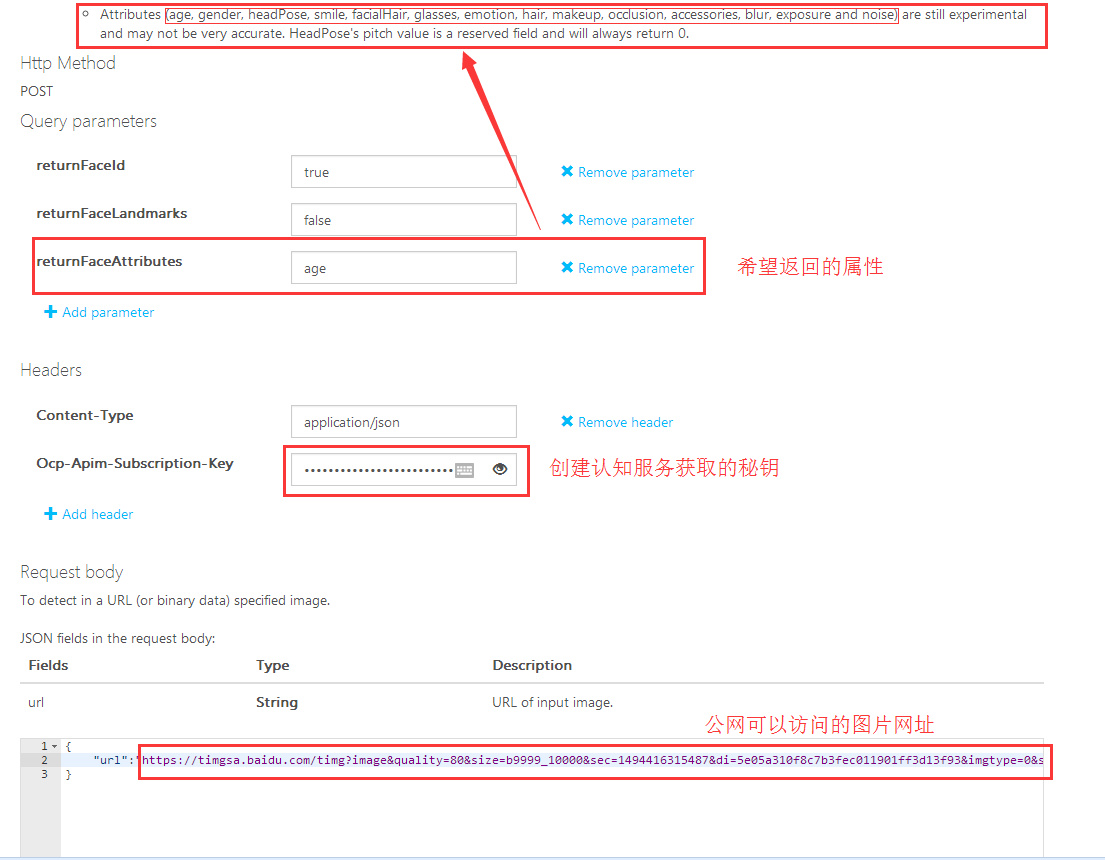


#### 控制台快速测试

1. 测试链接：<https://dev.cognitive.azure.cn/docs/services/563879b61984550e40cbbe8d/operations/563879b61984550f30395236>



1. Detect控制台测试演示：<https://dev.cognitive.azure.cn/docs/services/563879b61984550e40cbbe8d/operations/563879b61984550f30395236/console>





#### Rest API程序调用示例

1. [C# Code Samples：](https://github.com/taroyutao/FaceAPI-CShip)

|  |
| --- |
| using System;  using System.IO;  using System.Net.Http;  using System.Text;  using System.Web;  namespace FaceAPI  {  class Program  {  static void Main(string[] args)  {  //UsePictureURL();  UseLocalPicture();  Console.WriteLine("Hit ENTER to exit...");  Console.ReadLine();  }  /// <summary>  /// use picture URL  /// </summary>  static async void UsePictureURL()  {  var client = new HttpClient();  var queryString = HttpUtility.ParseQueryString(string.Empty);  // Request headers  client.DefaultRequestHeaders.Add("Ocp-Apim-Subscription-Key", "4fe95dd8ec4247a69cb2a001efda06c6");//Face API key  // Request parameters  queryString["returnFaceId"] = "true";  queryString["returnFaceLandmarks"] = "false";  queryString["returnFaceAttributes"] = "age";  var uri = "https://api.cognitive.azure.cn/face/v1.0/detect?" + queryString;  HttpResponseMessage response;  // Request body  byte[] byteData = Encoding.UTF8.GetBytes("{\"url\":\"https://timgsa.baidu.com/timg?image&quality=80&size=b9999\_10000&sec=1494416315487&di=5e05a310f8c7b3fec011901ff3d13f93&imgtype=0&src=http%3A%2F%2Fimgsrc.baidu.com%2Fbaike%2Fpic%2Fitem%2F4034970a304e251ff1e3819aa486c9177f3e53bf.jpg\"}");//Picture URL  using (var content = new ByteArrayContent(byteData))  {  response = await client.PostAsync(uri, content);  }  //response result  string result = await response.Content.ReadAsStringAsync();  Console.WriteLine("response:" + result);  }  /// <summary>  /// use local picture  /// </summary>  static async void UseLocalPicture()  {  var client = new HttpClient();    var queryString = HttpUtility.ParseQueryString(string.Empty);  // Request headers  client.DefaultRequestHeaders.Add("Ocp-Apim-Subscription-Key", "4fe95dd8ec4247a69cb2a001efda06c6");//Face API key  // Request parameters  queryString["returnFaceId"] = "true";  queryString["returnFaceLandmarks"] = "false";  queryString["returnFaceAttributes"] = "age";  var uri = "https://api.cognitive.azure.cn/face/v1.0/detect?" + queryString;  HttpResponseMessage response;  //read local picture to byte[]  string path = @"C:\Users\yuvmtest\Desktop\test.jpg";//local picture path  FileStream fs = File.OpenRead(path); //OpenRead  int filelength = 0;  filelength = (int)fs.Length;  byte[] image = new byte[filelength];  fs.Read(image, 0, filelength);  fs.Close();  using (var content = new ByteArrayContent(image))  {  content.Headers.Add("Content-Type", "application/octet-stream");//set content-type  response = await client.PostAsync(uri, content);  }  //response result  string result = await response.Content.ReadAsStringAsync();  Console.WriteLine("response:" + result);  }  }  } |

1. [Java Code Samples：](https://github.com/taroyutao/FaceAPI-Java)

|  |
| --- |
| **package** buct.edu.cn;  **import** java.io.FileInputStream;  **import** java.net.URI;  **import** org.apache.http.HttpEntity;  **import** org.apache.http.HttpResponse;  **import** org.apache.http.client.HttpClient;  **import** org.apache.http.client.methods.HttpPost;  **import** org.apache.http.client.utils.URIBuilder;  **import** org.apache.http.entity.ByteArrayEntity;  **import** org.apache.http.entity.StringEntity;  **import** org.apache.http.impl.client.HttpClients;  **import** org.apache.http.util.EntityUtils;  **public** **class** FaceAPI {  **public** **static** **void** main(String[] args) {    System.***out***.println("Begin FaceAPI Test.");    //UsePictureURL();  *UseLocalPicture*();  }  /\*\*  \* Use Picture URL  \*/  **public** **static** **void** UsePictureURL()  {  HttpClient httpclient = HttpClients.*createDefault*();  **try**  {  URIBuilder builder = **new** URIBuilder("https://api.cognitive.azure.cn/face/v1.0/detect");  builder.setParameter("returnFaceId", "true");  builder.setParameter("returnFaceLandmarks", "false");  builder.setParameter("returnFaceAttributes", "age");  URI uri = builder.build();  HttpPost request = **new** HttpPost(uri);  request.setHeader("Content-Type", "application/json");  request.setHeader("Ocp-Apim-Subscription-Key", "4fe95dd8ec4247a69cb2a001efda06c6");  // Request body  StringEntity reqEntity = **new** StringEntity("{\"url\":\"https://timgsa.baidu.com/timg?image&quality=80&size=b9999\_10000&sec=1494416315487&di=5e05a310f8c7b3fec011901ff3d13f93&imgtype=0&src=http%3A%2F%2Fimgsrc.baidu.com%2Fbaike%2Fpic%2Fitem%2F4034970a304e251ff1e3819aa486c9177f3e53bf.jpg\"}"); //URL图片地址  request.setEntity(reqEntity);  HttpResponse response = httpclient.execute(request);  HttpEntity entity = response.getEntity();  **if** (entity != **null**)  {  System.***out***.println(EntityUtils.*toString*(entity));  }  }  **catch** (Exception e)  {  System.***out***.println(e.getMessage());  }  }    /\*\*  \* use local picture  \*/  **public** **static** **void** UseLocalPicture()  {  HttpClient httpclient = HttpClients.*createDefault*();  **try**  {  URIBuilder builder = **new** URIBuilder("https://api.cognitive.azure.cn/face/v1.0/detect");  builder.setParameter("returnFaceId", "true");  builder.setParameter("returnFaceLandmarks", "false");  builder.setParameter("returnFaceAttributes", "age");  URI uri = builder.build();  HttpPost request = **new** HttpPost(uri);  request.setHeader("Content-Type", "application/octet-stream");  request.setHeader("Ocp-Apim-Subscription-Key", "4fe95dd8ec4247a69cb2a001efda06c6");  // Request body  String pic\_path = "C:\\Users\\yuvmtest\\Desktop\\test.jpg";    FileInputStream is = **new** FileInputStream(pic\_path);  **int** i = is.available();  **byte** data[] = **new** **byte**[i];  is.read(data);  is.close();    ByteArrayEntity bae = **new** ByteArrayEntity(data);  request.setEntity(bae);  HttpResponse response = httpclient.execute(request);  HttpEntity entity = response.getEntity();  **if** (entity != **null**)  {  System.***out***.println(EntityUtils.*toString*(entity));  }  }  **catch** (Exception e)  {  System.***out***.println(e.getMessage());  }  }  } |

1. [PHP Code Samples:](https://github.com/taroyutao/FaceAPI-PHP)

|  |
| --- |
| **// User picture URL**  <?php  **use** GuzzleHttp\Psr7\Request;  **use** GuzzleHttp\Client;  **require\_once** 'vendor\autoload.php';  $client = **new** Client();  $headers = ['Content-Type' => 'application/json','Ocp-Apim-Subscription-Key' => '4fe95dd8ec4247a69cb2a001efda06c6'];  $body = '{"url":"https://timgsa.baidu.com/timg?image&quality=80&size=b9999\_10000&sec=1494416315487&di=5e05a310f8c7b3fec011901ff3d13f93&imgtype=0&src=http%3A%2F%2Fimgsrc.baidu.com%2Fbaike%2Fpic%2Fitem%2F4034970a304e251ff1e3819aa486c9177f3e53bf.jpg"}';  $request = **new** Request('POST','https://api.cognitive.azure.cn/face/v1.0/detect?returnFaceId=true&returnFaceLandmarks=false&returnFaceAttributes=age', $headers , $body);  $response = $client->send($request);  **echo** $response->getBody();  ?>  **// User Local picture**  <?php  **use** GuzzleHttp\Psr7\Request;  **use** GuzzleHttp\Client;  **require\_once** 'vendor\autoload.php';  $client = **new** Client();  $headers = ['Content-Type' => 'application/octet-stream','Ocp-Apim-Subscription-Key' => 'bd8e4ce12f444c639ac9c214d70ac72c'];  //读取本地图片，测试图片放在项目目录下  $myfile = *fopen*("tt.jpg", "r") or *die*("Unable to open file!");  $request = **new** Request('POST','https://api.cognitive.azure.cn/face/v1.0/detect?returnFaceId=true&returnFaceLandmarks=false&returnFaceAttributes=age', $headers , $myfile);  $response = $client->send($request);  **echo** $response->getBody();  *fclose*($myfile);  ?> |

1. [Python Code Samples(Python3.3):](https://github.com/taroyutao/FaceAPI-Python)

|  |
| --- |
| **# User Picture URL**  **import** http.client, urllib.request, urllib.parse, urllib.error, base64  headers = {  *# Request headers* **'Content-Type'**: **'application/json'**,  **'Ocp-Apim-Subscription-Key'**: **'4fe95dd8ec4247a69cb2a001efda06c6'**, }  params = urllib.parse.urlencode({  *# Request parameters* **'returnFaceId'**: **'true'**,  **'returnFaceLandmarks'**: **'false'**,  **'returnFaceAttributes'**: **'age'**, })  **try**:  conn = http.client.HTTPSConnection(**'api.cognitive.azure.cn'**)  conn.request(**"POST"**, **"/face/v1.0/detect?%s"** % params, **"{'url':'https://timgsa.baidu.com/timg?image&quality=80&size=b9999\_10000&sec=1494416315487&di=5e05a310f8c7b3fec011901ff3d13f93&imgtype=0&src=http%3A%2F%2Fimgsrc.baidu.com%2Fbaike%2Fpic%2Fitem%2F4034970a304e251ff1e3819aa486c9177f3e53bf.jpg'}"**, headers)  response = conn.getresponse()  data = response.read()  print(data)  conn.close() **except** Exception **as** e:  print(**"[Errno {0}] {1}"**.format(e.errno, e.strerror))  **# User Local Picture**  **import** http.client, urllib.error  headers = {  *# Request headers* **'Content-Type'**: **'application/octet-stream'**,  **'Ocp-Apim-Subscription-Key'**: **'bd8e4ce12f444c639ac9c214d70ac72c'**, }  params = urllib.parse.urlencode({  *# Request parameters* **'returnFaceId'**: **'true'**,  **'returnFaceLandmarks'**: **'false'**,  **'returnFaceAttributes'**: **'age'**, })  **try**:  *# 读取本地图片* filenamePath=**"tt.jpg"** *# 测试图片存放在项目目录下* picturesdata = open(filenamePath, **'rb'**)   conn = http.client.HTTPSConnection(**'api.cognitive.azure.cn'**)  conn.request(**"POST"**, **"/face/v1.0/detect?%s"** % params, picturesdata, headers)  response = conn.getresponse()  data = response.read()  print(data)   picturesdata.closed  conn.close() **except** Exception **as** e:  print(**"[Errno {0}] {1}"**.format(e.errno, e.strerror)) |

1. JavaScript Code Sample：

|  |
| --- |
| // **User Local Picture**  <html>  <head>  <title>Face detection using Project Oxford in javascript</title>  <script src="https://code.jquery.com/jquery-2.2.2.min.js"></script>  </head>    <body>  <div>  <label for="filename">Select image: </label>  <input type="file" id="filename" name="filename" accept="image/\*">  <br />  <br />  <button id="btn">Detect faces</button>  </div>  <div>  <p id="response"></p>  </div>  <div>  <canvas id="myCanvas" width="1000" height="800">  Your browser does not support the HTML5 canvas tag.  </canvas>  </div>  <script>  $('#btn').click(function () {  alert("click");  var file = document.getElementById('filename').files[0];  detectFaces(file);  });  $("#filename").change(function () {  showImage();  });  function detectFaces(file) {  var apiKey = "bd8e4ce12f444c639ac9c214d70ac72c";    // Call the API  $.ajax({  url: "https://api.cognitive.azure.cn/face/v1.0/detect",  beforeSend: function (xhrObj) {  xhrObj.setRequestHeader("Content-Type", "application/octet-stream");  xhrObj.setRequestHeader("Ocp-Apim-Subscription-Key", apiKey);  $("#response").text("Calling api...");  },  type: "POST",  data: file,  processData: false  })  .done(function (response) {  // Process the API response.  processResult(response);  })  .fail(function (error) {  // Oops, an error :(  $("#response").text(error.getAllResponseHeaders());  });  }  function processResult(response) {  var arrayLength = response.length;  if (arrayLength > 0) {  var canvas = document.getElementById('myCanvas');  var context = canvas.getContext('2d');  context.beginPath();    // Draw face rectangles into canvas.  for (var i = 0; i < arrayLength; i++) {  var faceRectangle = response[i].faceRectangle;  context.rect(faceRectangle.left, faceRectangle.top, faceRectangle.width, faceRectangle.height);  }  context.lineWidth = 3;  context.strokeStyle = 'red';  context.stroke();  }  // Show the raw response.  var data = JSON.stringify(response);  $("#response").text(data);  }  function showImage() {  var canvas = document.getElementById("myCanvas");  var context = canvas.getContext("2d");  context.clearRect(0, 0, canvas.width, canvas.height);  var input = document.getElementById("filename");  var img = new Image;  img.onload = function () {  context.drawImage(img, 0, 0);  }  img.src = URL.createObjectURL(input.files[0]);  }  </script>  </body>  </html>  **# User Picture URL**  <!DOCTYPE html>  <html>  <head>  <title>Detect Faces Sample</title>  <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.9.0/jquery.min.js"></script>  </head>  <body>  <script type="text/javascript">  function processImage() {  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // \*\*\* Update or verify the following values. \*\*\*  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Replace the subscriptionKey string value with your valid subscription key.  var subscriptionKey = "bd8e4ce12f444c639ac9c214d70ac72c";  // Replace or verify the region.  //  // You must use the same region in your REST API call as you used to obtain your subscription keys.  // For example, if you obtained your subscription keys from the westus region, replace  // "westcentralus" in the URI below with "westus".  //  // NOTE: Free trial subscription keys are generated in the westcentralus region, so if you are using  // a free trial subscription key, you should not need to change this region.  var uriBase = "https://api.cognitive.azure.cn/face/v1.0/detect";  // Request parameters.  var params = {  "returnFaceId": "true",  "returnFaceLandmarks": "false",  "returnFaceAttributes": "age,gender,headPose,smile,facialHair,glasses,emotion,hair,makeup,occlusion,accessories,blur,exposure,noise",  };  // Display the image.  var sourceImageUrl = document.getElementById("inputImage").value;  document.querySelector("#sourceImage").src = sourceImageUrl;  // Perform the REST API call.  $.ajax({  url: uriBase + "?" + $.param(params),  // Request headers.  beforeSend: function(xhrObj){  xhrObj.setRequestHeader("Content-Type","application/json");  xhrObj.setRequestHeader("Ocp-Apim-Subscription-Key", subscriptionKey);  },  type: "POST",  // Request body.  data: '{"url": ' + '"' + sourceImageUrl + '"}',  })  .done(function(data) {  // Show formatted JSON on webpage.  $("#responseTextArea").val(JSON.stringify(data, null, 2));  })  .fail(function(jqXHR, textStatus, errorThrown) {  // Display error message.  var errorString = (errorThrown === "") ? "Error. " : errorThrown + " (" + jqXHR.status + "): ";  errorString += (jqXHR.responseText === "") ? "" : (jQuery.parseJSON(jqXHR.responseText).message) ?  jQuery.parseJSON(jqXHR.responseText).message : jQuery.parseJSON(jqXHR.responseText).error.message;  alert(errorString);  });  };  </script>  <h1>Detect Faces:</h1>  Enter the URL to an image that includes a face or faces, then click the <strong>Analyze face</strong> button.  <br><br>  Image to analyze: <input type="text" name="inputImage" id="inputImage" value="https://timgsa.baidu.com/timg?image&quality=80&size=b9999\_10000&sec=1494416315487&di=5e05a310f8c7b3fec011901ff3d13f93&imgtype=0&src=http%3A%2F%2Fimgsrc.baidu.com%2Fbaike%2Fpic%2Fitem%2F4034970a304e251ff1e3819aa486c9177f3e53bf.jpg" />  <button onclick="processImage()">Analyze face</button>  <br><br>  <div id="wrapper" style="width:1020px; display:table;">  <div id="jsonOutput" style="width:600px; display:table-cell;">  Response:  <br><br>  <textarea id="responseTextArea" class="UIInput" style="width:580px; height:400px;"></textarea>  </div>  <div id="imageDiv" style="width:420px; display:table-cell;">  Source image:  <br><br>  <img id="sourceImage" width="400" />  </div>  </div>  </body>  </html> |

1. Code测试结果：

|  |
| --- |
| [{"faceId":"13a27b70-db59-4d36-b7fe-6a2e3ad306f5","faceRectangle":{"top":126,"left":95,"width":137,"height":137},"faceAttributes":{"age":26.2}}] |

#### SDK程序调用示例

##### C# SDK Code Sample：

环境搭建说明：

|  |
| --- |
| **SDK：**Microsoft.ProjectOxford.Face  **GitHub：**https://github.com/Microsoft/Cognitive-Face-Windows |

Code：

|  |
| --- |
| using Microsoft.ProjectOxford.Face;  using Microsoft.ProjectOxford.Face.Contract;  using System;  using System.Collections.Generic;  using System.IO;  namespace CognitiveServiceTaro  {  class Program  {  private readonly static IFaceServiceClient faceServiceClient =  new FaceServiceClient("<face api key>", "https://api.cognitive.azure.cn/face/v1.0");  static void Main(string[] args)  {  // The list of Face attributes to return.  IEnumerable<FaceAttributeType> faceAttributes =  new FaceAttributeType[] { FaceAttributeType.Gender, FaceAttributeType.Age, FaceAttributeType.Smile, FaceAttributeType.Emotion, FaceAttributeType.Glasses, FaceAttributeType.Hair,FaceAttributeType.FacialHair,FaceAttributeType.HeadPose};  //The url of picture.  //String imageUrl = "https://timgsa.baidu.com/timg?image&quality=80&size=b9999\_10000&sec=1494416315487&di=5e05a310f8c7b3fec011901ff3d13f93&imgtype=0&src=http%3A%2F%2Fimgsrc.baidu.com%2Fbaike%2Fpic%2Fitem%2F4034970a304e251ff1e3819aa486c9177f3e53bf.jpg";  //Face[] faces = faceServiceClient.DetectAsync(imageUrl, returnFaceId: true, returnFaceLandmarks: true, returnFaceAttributes: faceAttributes).GetAwaiter().GetResult();  //use local picture  string imageFilePath = @"D:\test.jpg";  Stream imageFileStream = File.OpenRead(imageFilePath);  // Call the Face API.  Face[] faces = faceServiceClient.DetectAsync(imageFileStream, returnFaceId: true, returnFaceLandmarks: true, returnFaceAttributes: faceAttributes).GetAwaiter().GetResult();  imageFileStream.Close();  foreach (Face face in faces)  {  Console.WriteLine("FaceId: " + face.FaceId);  Console.WriteLine("Age: " + face.FaceAttributes.Age);  Console.WriteLine("face.FaceLandmarks.PupilLeft.X： " + face.FaceLandmarks.PupilLeft.X);  }  Console.ReadKey(true);  }  }  } |

##### Java SDK Code Sample：

环境搭建说明：

|  |  |
| --- | --- |
| **SDK下载：**如果使用Android项目添加依赖包，可以直接在[maven](https://mvnrepository.com)中心仓库搜索：com.microsoft.projectoxford:face添加dependency即可；如果使用java项目，需要下载对应的arr包，解压得到其中的classes.jar，添加到项目即可。  **第三方依赖pom.xml：**   |  | | --- | | <dependencies>  <dependency>  <groupId>com.google.code.gson</groupId>  <artifactId>gson</artifactId>  <version>2.3.1</version>  <scope>compile</scope>  </dependency>  <dependency>  <groupId>org.apache.httpcomponents</groupId>  <artifactId>httpclient</artifactId>  <version>4.5.2</version>  </dependency>  </dependencies> |   **GitHub：**<https://github.com/Microsoft/Cognitive-Face-Android> |

Code:

|  |
| --- |
| **package** buct.edu.cn;  **import** java.io.FileInputStream;  **import** java.io.IOException;  **import** java.io.InputStream;  **import** com.microsoft.projectoxford.face.FaceServiceClient;  **import** com.microsoft.projectoxford.face.FaceServiceClient.FaceAttributeType;  **import** com.microsoft.projectoxford.face.FaceServiceRestClient;  **import** com.microsoft.projectoxford.face.contract.Face;  **import** com.microsoft.projectoxford.face.rest.ClientException;  **public** **class** FaceAPIDemo {  **private** **static** FaceServiceClient *faceServiceClient* =  **new** FaceServiceRestClient("https://api.cognitive.azure.cn/face/v1.0","bd8e4ce12f444c639ac9c214d70ac72c");    **public** **static** **void** main(String[] args) **throws** ClientException, IOException {  // **TODO** Auto-generated method stub    FaceAttributeType[] parameters = { FaceAttributeType.***Age***,FaceAttributeType.***Gender***};    //Use URL  // Face[] result = faceServiceClient.detect(  // "https://timgsa.baidu.com/timg?image&quality=80&size=b9999\_10000&sec=1494416315487&di=5e05a310f8c7b3fec011901ff3d13f93&imgtype=0&src=http%3A%2F%2Fimgsrc.baidu.com%2Fbaike%2Fpic%2Fitem%2F4034970a304e251ff1e3819aa486c9177f3e53bf.jpg",  // true, // returnFaceId  // false, // returnFaceLandmarks  // parameters // returnFaceAttributes: a string like "age, gender"  // );  //User local picture  String imageFilePath = "D:\\timg.jpg";  InputStream imageFileStream = **new** FileInputStream(imageFilePath);    Face[] result = *faceServiceClient*.detect(  imageFileStream,  **true**, // returnFaceId  **false**, // returnFaceLandmarks  parameters // returnFaceAttributes: a string like "age, gender"  );    imageFileStream.close();    **for**(Face face:result)  {  System.***out***.println("FaceID: " + face.faceId);  System.***out***.println("Age:" + face.faceAttributes.age);  }  }  } |

##### Python SDK Code Sample：

环境搭建说明：

|  |
| --- |
| **SDK安装：**pip install cognitive\_face  **GitHub：**<https://github.com/Microsoft/Cognitive-Face-Python> |

Code：

|  |
| --- |
| **import** cognitive\_face **as** CF  KEY = **'<face api key>'** *# Replace with a valid subscription key (keeping the quotes in place).* URL = **'https://api.cognitive.azure.cn/face/v1.0/'** CF.Key.set(KEY) CF.BaseUrl.set(URL)  *# You can use this example JPG or replace the URL below with your own URL to a JPEG image.* filenamePath = **"D:/timg.jpg"** *# the path of pciture* img\_local = open(filenamePath, **'rb'**)  img\_url = **'https://timgsa.baidu.com/timg?image&quality=80&size=b9999\_10000&sec=1494416315487&di=5e05a310f8c7b3fec011901ff3d13f93&imgtype=0&src=http%3A%2F%2Fimgsrc.baidu.com%2Fbaike%2Fpic%2Fitem%2F4034970a304e251ff1e3819aa486c9177f3e53bf.jpg'** result = CF.face.detect(img\_local,face\_id=**True**,attributes=**'age,gender'**) *#img\_local or img\_url* print(result) |

##### 测试结果：

|  |
| --- |
| [{'faceId': 'd9c2f3c7-8053-4910-9f26-67ecff5a614f', 'faceRectangle': {'top': 126, 'left': 95, 'width': 137, 'height': 137}, 'faceAttributes': {'gender': 'female', 'age': 26.2}}] |

#### 更多信息参考：

认知服务价格详情：<https://www.azure.cn/pricing/details/cognitive-services/>

Cognitive-Samples-IntelligentKiosk：<https://github.com/Microsoft/Cognitive-Samples-IntelligentKiosk>

PHP使用Face API：<http://azurecloudapi.cn/?p=366>

CognitiveServices SDK：<https://github.com/Microsoft/ProjectOxford-ClientSDK>