# 百度云开发者大赛

**作品名称**：万能网页语音阅读器

**简介编辑**：提供基于html5 web网页的语音阅读功能。只需引用一条url连接，即可完成网页内容的阅读功能。针对盲人，提供无障碍浏览网页内容，自动朗读网页内容。

后续内容可以进行升级，针对特定的网页阅读指定内容。

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**作品安装包**：还在开发中，目前已完成95%。

**相应地址**：

初稿测试api地址：

<http://tool.codedq.net/texttospeech/index.html>

最终效果地址：

<http://xiongmengtao.duapp.com/text2audio>

**总体/功能架构**：



**主界面展示**：

测试页面：



最终版本没有页面，只有引用js代码。类似百度统计的使用方法。

**调用百度云的功能介绍（代码片段截图）**：







测试代码：

package net.codedq;

import java.io.IOException;

import java.io.UnsupportedEncodingException;

import java.util.ArrayList;

import java.util.List;

import org.apache.http.HttpEntity;

import org.apache.http.NameValuePair;

import org.apache.http.client.entity.UrlEncodedFormEntity;

import org.apache.http.client.methods.CloseableHttpResponse;

import org.apache.http.client.methods.HttpGet;

import org.apache.http.client.methods.HttpPost;

import org.apache.http.impl.client.CloseableHttpClient;

import org.apache.http.impl.client.HttpClients;

import org.apache.http.message.BasicNameValuePair;

import org.apache.http.util.EntityUtils;

import org.json.JSONObject;

public class Test {

 public static void main(String[] args) {

 List<NameValuePair> list = new ArrayList<NameValuePair>();

 try {

 //grant\_type=client\_credentials&client\_id=&client\_secret=

 list.add(new BasicNameValuePair("grant\_type", "client\_credentials"));

 list.add(new BasicNameValuePair("client\_id", "test"));

 list.add(new BasicNameValuePair("client\_secret", "test"));

 HttpEntity resq = requestByPostMethod("https://openapi.baidu.com/oauth/2.0/token" , list);

 String result = EntityUtils.toString(resq);

 System.out.println(result);

 JSONObject json = new JSONObject(result);

 //tex=\*\*\*&lan=zh&cuid=\*\*\*&ctp=1&tok=\*\*\*

 list.clear();

 list.add(new BasicNameValuePair("tex", "上海"));

 list.add(new BasicNameValuePair("lan", "zh"));

 list.add(new BasicNameValuePair("cuid", "b038efda39a045f192eba1d5ca008b3a"));

 list.add(new BasicNameValuePair("ctp", "1"));

 list.add(new BasicNameValuePair("tok", String.valueOf(json.get("access\_token"))));

 resq = requestByPostMethod("http://tsn.baidu.com/text2audi" , list);

 result = EntityUtils.toString(resq);

 System.out.println(result);

 System.out.println(resq.getContentType());

 //requestByGetMethod("http://tsn.baidu.com/text2audi?tex=上海&lan=zh&cuid=test&ctp=1&tok="+String.valueOf(json.get("access\_token")));

 requestByGetMethod("http://tts.baidu.com/text2audio?lan=zh&pid=101&ie=UTF-8&text=上海");

 } catch (Exception e) {

 e.printStackTrace();

 }

 }

 public static void requestByGetMethod(String url){

 //创建默认的httpClient实例

 CloseableHttpClient httpClient = getHttpClient();

 try {

 //用get方法发送http请求

 HttpGet get = new HttpGet(url);

 System.out.println("执行get请求:...."+get.getURI());

 CloseableHttpResponse httpResponse = null;

 //发送get请求

 httpResponse = httpClient.execute(get);

 try{

 //response实体

 HttpEntity entity = httpResponse.getEntity();

 if (null != entity){

 System.out.println("响应状态码:"+ httpResponse.getStatusLine());

 System.out.println("-------------------------------------------------");

 System.out.println(entity.getContentType());

 System.out.println("-------------------------------------------------");

 }

 }

 finally{

 httpResponse.close();

 }

 } catch (Exception e) {

 e.printStackTrace();

 }

 finally{

 try{

 closeHttpClient(httpClient);

 } catch (IOException e){

 e.printStackTrace();

 }

 }

 }

 /\*\*

 \* POST方式发起http请求

 \*/

 public static HttpEntity requestByPostMethod(String url,List<NameValuePair> list){

 CloseableHttpClient httpClient = getHttpClient();

 CloseableHttpResponse httpResponse = null;

 try {

 // 百度云语言合成url

 HttpPost post = new HttpPost(url);

 //url格式编码

 UrlEncodedFormEntity uefEntity = new UrlEncodedFormEntity(list,"UTF-8");

 post.setEntity(uefEntity);

 //执行请求

 httpResponse = httpClient.execute(post);

 try{

 return httpResponse.getEntity();

 } finally{

 httpResponse.close();

 }

 } catch(UnsupportedEncodingException e){

 e.printStackTrace();

 } catch (IOException e) {

 e.printStackTrace();

 } finally{

 try{

 closeHttpClient(httpClient);

 } catch(Exception e){

 e.printStackTrace();

 }

 }

 return null;

 }

 private static CloseableHttpClient getHttpClient(){

 return HttpClients.createDefault();

 }

 private static void closeHttpClient(CloseableHttpClient client) throws IOException{

 if (client != null){

 client.close();

 }

 }

}

**产品优势**：

1. 使用简单
2. 市场大
3. 朗读清晰
4. 背靠百度大腿

**市场前景/空间预测**：

前景可观，目前这样的功能市场还未大面积覆盖。市场空间大。