# <http://blog.csdn.net/doulinxu/article/details/60766242>

七种方法加密

# 基本加密

js对文字进行编码涉及3个函数：escape,encodeURI,encodeURIComponent，相应3个解码函数：unescape,decodeURI,decodeURIComponent  
  
1.传递参数时需要使用encodeURIComponent，这样组合的url才不会被#等[特殊字符](https://www.baidu.com/s?wd=%E7%89%B9%E6%AE%8A%E5%AD%97%E7%AC%A6&tn=44039180_cpr&fenlei=mv6quAkxTZn0IZRqIHckPjm4nH00T1Y3nHuWPHIWnH6snvubmWfd0ZwV5Hcvrjm3rH6sPfKWUMw85HfYnjn4nH6sgvPsT6KdThsqpZwYTjCEQLGCpyw9Uz4Bmy-bIi4WUvYETgN-TLwGUv3EnHTsnHfYnj0d" \t "https://zhidao.baidu.com/question/_blank)截断。   
  
例如：<script language="javascript">document.write('<a href="[http://passport.baidu.com/?logout&aid=7&u=](http://passport.baidu.com/?logout&aid=7&u=" \t "https://zhidao.baidu.com/question/_blank)'+encodeURIComponent("[http://cang.baidu.com/bruce42](http://cang.baidu.com/bruce42" \t "https://zhidao.baidu.com/question/_blank)")+'">退出</a>');</script>  
  
2.进行url跳转时可以整体使用encodeURI  
  
例如：Location.href=encodeURI("[http://cang.baidu.com/do/s?word=](http://cang.baidu.com/do/s?word=" \t "https://zhidao.baidu.com/question/_blank)百度&ct=21");  
3. js使用数据时可以使用escape  
例如：搜藏中history纪录。  
4.escape对0-255以外的unicode值进行编码时输出%u\*\*\*\*格式，其它情况下escape，encodeURI，encodeURIComponent编码结果相同

<http://blog.csdn.net/hdchangchang/article/details/46308955>

# **网上搜到的加密解密方法**

function Encrypt(str, pwd) {      
    if(str=="")return "";      
    str = escape(str);      
    if(!pwd || pwd==""){ var pwd="1234"; }      
    pwd = escape(pwd);      
      if(pwd == null || pwd.length <= 0) {      
        alert("Please enter a password with which to encrypt the message.");      
          return null;      
      }      
      var prand = "";      
      for(var I=0; I<pwd.length; I++) {      
        prand += pwd.charCodeAt(I).toString();      
      }      
      var sPos = Math.floor(prand.length / 5);      
      var mult = parseInt(prand.charAt(sPos) + prand.charAt(sPos\*2) + prand.charAt(sPos\*3) + prand.charAt(sPos\*4) + prand.charAt(sPos\*5));      
      var incr = Math.ceil(pwd.length / 2);      
      var modu = Math.pow(2, 31) - 1;      
      if(mult < 2) {      
        alert("Algorithm cannot find a suitable hash. Please choose a different password. /nPossible considerations are to choose a more complex or longer password.");      
        return null;      
      }      
      var salt = Math.round(Math.random() \* 1000000000) % 100000000;      
      prand += salt;      
      while(prand.length > 10) {      
        prand = (parseInt(prand.substring(0, 10)) + parseInt(prand.substring(10, prand.length))).toString();      
      }      
      prand = (mult \* prand + incr) % modu;      
    var enc\_chr = "";      
    var enc\_str = "";      
    for(var I=0; I<str.length; I++) {      
        enc\_chr = parseInt(str.charCodeAt(I) ^ Math.floor((prand / modu) \* 255));      
        if(enc\_chr < 16) {      
            enc\_str += "0" + enc\_chr.toString(16);      
        }else      
            enc\_str += enc\_chr.toString(16);      
        prand = (mult \* prand + incr) % modu;      
    }      
      salt = salt.toString(16);      
      while(salt.length < 8)salt = "0" + salt;      
    enc\_str += salt;      
    return enc\_str;      
}      
function Decrypt(str, pwd) {      
    if(str=="")return "";      
    if(!pwd || pwd==""){ var pwd="1234"; }      
    pwd = escape(pwd);      
      if(str == null || str.length < 8) {      
        alert("A salt value could not be extracted from the encrypted message because it's length is too short. The message cannot be decrypted.");      
        return;      
      }      
      if(pwd == null || pwd.length <= 0) {      
        alert("Please enter a password with which to decrypt the message.");      
        return;      
      }      
      var prand = "";      
      for(var I=0; I<pwd.length; I++) {      
        prand += pwd.charCodeAt(I).toString();      
      }      
      var sPos = Math.floor(prand.length / 5);      
      var mult = parseInt(prand.charAt(sPos) + prand.charAt(sPos\*2) + prand.charAt(sPos\*3) + prand.charAt(sPos\*4) + prand.charAt(sPos\*5));      
      var incr = Math.round(pwd.length / 2);      
      var modu = Math.pow(2, 31) - 1;      
      var salt = parseInt(str.substring(str.length - 8, str.length), 16);      
      str = str.substring(0, str.length - 8);      
      prand += salt;      
      while(prand.length > 10) {      
        prand = (parseInt(prand.substring(0, 10)) + parseInt(prand.substring(10, prand.length))).toString();      
      }      
      prand = (mult \* prand + incr) % modu;      
      var enc\_chr = "";      
      var enc\_str = "";      
    for(var I=0; I<str.length; I+=2) {      
        enc\_chr = parseInt(parseInt(str.substring(I, I+2), 16) ^ Math.floor((prand / modu) \* 255));      
        enc\_str += String.fromCharCode(enc\_chr);      
        prand = (mult \* prand + incr) % modu;      
    }      
    return unescape(enc\_str);      
}

# **数据转换**

**数字保留小数使用parseFloat可取浮点数。**