

すごいぞ！PHP (sample programs)

1. jcode.phps

使い方：Perlのjcode.plと同じ

```
<?
function JcodeConvert($str, $from, $to){
//0:AUTO DETECT
//1:EUC-JP
//2:Shift_JIS
//3:ISO-2022-JP(JIS)
if($from == 0) $from = AutoDetect($str);
if($from == 1 && $to == 2) return EUCtoSJIS($str);
if($from == 1 && $to == 3) return EUCtoJIS($str);
if($from == 2 && $to == 1) return SJIStoEUC($str);
if($from == 2 && $to == 3) return SJIStoJIS($str);
if($from == 3 && $to == 1) return JIStoEUC($str);
if($from == 3 && $to == 2) return JIStoSJIS($str);
return $str;
}
function AutoDetect($str){
$b = unpack("C*", $str);
$n = count($b);
$is_ascii = TRUE;
for($i = 1; $i < $n; $i++){
if($b[$i] == 0x1b && $b[$i+1] == 0x24) return 3; //JIS
if($b[$i] <= 0x7F) continue; //ASCII
$is_ascii = FALSE;
if($b[$i] <= 0x9F) return 2; //SJIS
if($b[$i] <= 0xDF) return 1; //EUC
if($b[$i] >= 0xF0) return 2; //SJIS
if($b[$i+1] <= 0xA0) return 2; //SJIS
if($b[$i+1] >= 0xFD) return 1; //EUC
$i++;
}
if($is_ascii) return 0;
return 5;
}
function HANtoZEN($str, $encode){
```

```

//0:AUTO DETECT
//1:EUC-JP
//2:Shift_JIS
//3:ISO-2022-JP(JIS)
if($encode == 0) $encode = AutoDetect($str);
if($encode == 1) return HANtoZEN_EUC($str);
if($encode == 2) return HANtoZEN_SJIS($str);
if($encode == 3) return HANtoZEN_JIS($str);
return $str;
}
function JIStoSJIS($str_JIS){
$str_SJIS = '';
$mode = 0;
$b = unpack("C*", $str_JIS);
$n = count($b);
for($i = 1; $i <= $n; $i++){
if($b[$i] == 0x1B){
if(($b[$i+1] == 0x24 && $b[$i+2] == 0x42) || ($b[$i+1] == 0x24 && $b[$i+2] == 0x40)){
$mode = 1;
}elseif($b[$i+1] == 0x28 && $b[$i+2] == 0x49){
$mode = 2;
}else{
$mode = 0;
}
}
}
if($mode == 1){
if($b[$i] & 0x01){
$b[$i] >>= 1;
if($b[$i] < 0x2F) $b[$i] += 0x71; else $b[$i] -= 0x4F;
if($b[$i+1] > 0x5F) $b[$i+1] += 0x20; else $b[$i+1] += 0x1F;
}else{
$b[$i] >>= 1;
if($b[$i] < 0x2F) $b[$i] += 0x70; else $b[$i] -= 0x50;
$b[$i+1] += 0x7E;
}
}
}
if($mode == 2){
$b[$i] += 0x80;
}
}
}

```

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```
return $str_SJIS;
}
function JIStoEUC($str_JIS){
$str_EUC = '';
$mode = 0;
$b = unpack("C*", $str_JIS);
$n = count($b);
for($i = 1; $i <= $n; $i++){
if($b[$i] == 0x1B){
if(($b[$i+1] == 0x24 && $b[$i+2] == 0x42) || ($b[$i+1] == 0x24 && $b[$i+2] == 0x40)){
$mode = 1;
}elseif(($b[$i+1] == 0x28 && $b[$i+2] == 0x49)){
$mode = 2;
}else{
$mode = 0;
}
}
}
}
if($mode == 1){
$b[$i] += 0x80; $b[$i+1] += 0x80;
$str_EUC .= pack("CC", $b[$i], $b[$i+1]);
}
elseif($mode == 2){
$b[$i] += 0x80;
$str_EUC .= pack("CC", 0x8E, $b[$i]);
}
elseif($i < strlen($str_JIS)){
$str_EUC .= pack("C", $b[$i]);
}
}
return $str_EUC;
}
function SJIStoJIS($str_SJIS){
$str_JIS = '';
$mode = 0;
$b = unpack("C*", $str_SJIS);
$n = count($b);
for($i = 1; $i <= $n; $i++){
if(0xA1 <= $b[$i] && $b[$i] <= 0xDF){
if($mode != 2){
$mode = 2;
$str_JIS .= pack("CCC", 0x1B, 0x28, 0x49);
}
}
}
}
elseif($b[$i] >= 0x80){
```

```

if($mode != 1){
$mode = 1;
$str_JIS .= pack("CCC", 0x1B, 0x24, 0x42);
}
$b[$i] <<= 1;
if($b[$i+1] < 0x9F){
if($b[$i] < 0x13F) $b[$i] -= 0xE1; else $b[$i] -= 0x61;
if($b[$i+1] > 0x7E) $b[$i+1] -= 0x20; else $b[$i+1] -= 0x1F;
}else{
if($b[$i] < 0x13F) $b[$i] -= 0xE0; else $b[$i] -= 0x60;
$b[$i+1] -= 0x7E;
}
$b[$i] = $b[$i] & 0xff;
$str_JIS .= pack("CC", $b[$i], $b[$i+1]);
$i++;
}else{
if($mode != 0){
$mode = 0;
$str_JIS .= pack("CCC", 0x1B, 0x28, 0x42);
}
$str_JIS .= pack("C", $b[$i]);
}
}
if($mode != 0) $str_JIS .= pack("CCC", 0x1b, 0x28, 0x42);
return $str_JIS;
}
function SJIStoEUC($str_SJIS){
$str_EUC = '';
$b = unpack("C*", $str_SJIS);
$n = count($b);
for($i = 1; $i <= $n; $i++){
if(0xA1 <= $b[$i] && $b[$i] <= 0xDF){
$str_EUC .= pack("CC", 0x8E, $b[$i]);
}elseif($b[$i] >= 0x81){
$b[$i] <<= 1;
if($b[$i+1] < 0x9F){
if($b[$i] < 0x13F) $b[$i] -= 0x61; else $b[$i] -= 0xE1;
if($b[$i+1] > 0x7E) $b[$i+1] += 0x60; else $b[$i+1] += 0x61;
}else{
if($b[$i] < 0x13F) $b[$i] -= 0x60; else $b[$i] -= 0xE0;
$b[$i+1] += 0x02;
}
}
$str_EUC .= pack("CC", $b[$i], $b[$i+1]);
$i++;
}else{

```

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```
$str_EUC .= pack("C", $b[$i]);
}
}
return $str_EUC;
}
function EUCtoJIS($str_EUC){
$str_JIS = '';
$mode = 0;
$b = unpack("C*", $str_EUC);
$n = count($b);
for($i = 1; $i <= $n; $i++){
if($b[$i] == 0x8E){
if($mode != 2){
$mode = 2;
$str_JIS .= pack("CCC", 0x1B, 0x28, 0x49);
}
$b[$i+1] -= 0x80;
$str_JIS .= pack("C", $b[$i+1]);
$i++;
}elseif($b[$i] > 0x8E){
if($mode != 1){
$mode = 1;
$str_JIS .= pack("CCC", 0x1B, 0x24, 0x42);
}
$b[$i] -= 0x80; $b[$i+1] -= 0x80;
$str_JIS .= pack("CC", $b[$i], $b[$i+1]);
$i++;
}else{
if($mode != 0){
$mode = 0;
$str_JIS .= pack("CCC", 0x1b, 0x28, 0x42);
}
$str_JIS .= pack("C", $b[$i]);
}
}
if($mode != 0) $str_JIS .= pack("CCC", 0x1b, 0x28, 0x42);
return $str_JIS;
}
function EUCtoSJIS($str_EUC){
$str_SJIS = '';
$b = unpack("C*", $str_EUC);
$n = count($b);
for($i = 1; $i <= $n; $i++){
if($b[$i] == 0x8E){
$str_SJIS .= pack("C", $b[$i+1]);
```

```

$i++;
}elseif($b[$i] >= 0x80){
if($b[$i] & 0x01){
$b[$i] >>= 1;
if($b[$i] < 0x6F) $b[$i] += 0x31; else $b[$i] += 0x71;
if($b[$i+1] > 0xDF) $b[$i+1] -= 0x60; else $b[$i+1] -= 0x61;
}else{
$b[$i] >>= 1;
if($b[$i] < 0x6F) $b[$i] += 0x30; else $b[$i] += 0x70;
$b[$i+1] -= 0x02;
}
$str_SJIS .= pack("CC", $b[$i], $b[$i+1]);
$i++;
}else{
$str_SJIS .= pack("C", $b[$i]);
}
}
return $str_SJIS;
}

function HANtoZEN_EUC($str_HAN){
$table_han2zen_euc = array(0xA1A3, 0xA1D6, 0xA1D7, 0xA1A2, 0xA1A6, 0xA5F2,
0xA5A1, 0xA5A3, 0xA5A5, 0xA5A7, 0xA5A9, 0xA5E3, 0xA5E5, 0xA5E7, 0xA5C3, 0xA1BC,
0xA5A2, 0xA5A4, 0xA5A6, 0xA5A8, 0xA5AA, 0xA5AB, 0xA5AD, 0xA5AF, 0xA5B1, 0xA5B3,
0xA5B5, 0xA5B7, 0xA5B9, 0xA5BB, 0xA5BD, 0xA5BF, 0xA5C1, 0xA5C4, 0xA5C6, 0xA5C8,
0xA5CA, 0xA5CB, 0xA5CC, 0xA5CD, 0xA5CE, 0xA5CF, 0xA5D2, 0xA5D5, 0xA5D8, 0xA5DB,
0xA5DE, 0xA5DF, 0xA5E0, 0xA5E1, 0xA5E2, 0xA5E4, 0xA5E6, 0xA5E8, 0xA5E9, 0xA5EA,
0xA5EB, 0xA5EC, 0xA5ED, 0xA5EF, 0xA5F3, 0xA1AB, 0xA1AC);
$str_ZEN = '';
$b = unpack("C*", $str_HAN);
$n = count($b);
for($i = 1; $i <= $n; $i++){
if($b[$i] == 0x8E){
$b[$i+1] -= 0xA1;
$c1 = (($table_han2zen_euc[$b[$i+1]] & 0xff00) >> 8);
$c2 = ($table_han2zen_euc[$b[$i+1]] & 0x00ff);
$str_ZEN .= pack("CC", $c1, $c2);
$i++;
}elseif($b[$i] >= 0xA1){
$str_ZEN .= pack("CC", $b[$i], $b[$i+1]);
$i++;
}else{
$str_ZEN .= pack("C", $b[$i]);
}
}
return $str_ZEN;
}

```

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```
}  
function HANtoZEN_SJIS($str_HAN){  
    $table_han2zen_sjis = array(0x8142,0x8175,0x8176,0x8141,0x8145,0x8392,  
    0x8340,0x8342,0x8344,0x8346,0x8348,0x8383,0x8385,0x8387,0x8362,0x815B,  
    0x8341,0x8343,0x8345,0x8347,0x8349,0x834A,0x834C,0x834E,0x8350,0x8352,  
    0x8354,0x8356,0x8358,0x835A,0x835C,0x835E,0x8360,0x8363,0x8365,0x8367,  
    0x8369,0x836A,0x836B,0x836C,0x836D,0x836E,0x8371,0x8374,0x8377,0x837A,  
    0x837D,0x837E,0x8380,0x8381,0x8382,0x8384,0x8386,0x8388,0x8389,0x838A,  
    0x838B,0x838C,0x838D,0x838F,0x8393,0x814A,0x814B);  
    $str_ZEN = '';  
    $b = unpack("C*", $str_HAN);  
    $n = count($b);  
    for($i = 1; $i <= $n; $i++){  
        if(0xA1 <= $b[$i] && $b[$i] <= 0xDF){  
            $b[$i] -= 0xA1;  
            $c1 = ($table_han2zen_sjis[$b[$i]] & 0xff00) >> 8;  
            $c2 = $table_han2zen_sjis[$b[$i]] & 0x00ff;  
            $str_ZEN .= pack("CC", $c1, $c2);  
        }elseif($b[$i] >= 0x80){  
            $str_ZEN .= pack("CC", $b[$i], $b[$i+1]);  
            $i++;  
        }else{  
            $str_ZEN .= pack("C", $b[$i]);  
        }  
    }  
    return $str_ZEN;  
}  
function HANtoZEN_JIS($str_HAN){  
    $table_han2zen_jis = array(0x2123,0x2156,0x2157,0x2122,0x2126,0x2572,  
    0x2521,0x2523,0x2525,0x2527,0x2529,0x2563,0x2565,0x2567,0x2543,0x213C,  
    0x2522,0x2524,0x2526,0x2528,0x252A,0x252B,0x252D,0x252F,0x2531,0x2533,  
    0x2535,0x2537,0x2539,0x253B,0x253D,0x253F,0x2541,0x2544,0x2546,0x2548,  
    0x254A,0x254B,0x254C,0x254D,0x254E,0x254F,0x2552,0x2555,0x2558,0x255B,  
    0x255E,0x255F,0x2560,0x2561,0x2562,0x2564,0x2566,0x2568,0x2569,0x256A,  
    0x256B,0x256C,0x256D,0x256F,0x2573,0x212B,0x212C);  
    $str_ZEN = '';  
    $mode = 0;  
    $b = unpack("C*", $str_HAN);  
    $n = count($b);  
    for($i = 1; $i <= $n; $i++){  
        if($b[$i] == 0x1B){  
            if($b[$i+1] == 0x28 && $b[$i+2] == 0x49){  
                $mode = 1;  
                $str_ZEN .= pack("CCC", 0x1B, 0x24, 0x42);  
            }else{
```

```

$mode = 0;
$str_ZEN .= pack("CCC", $b[$i], $b[$i+1], $b[$i+2]);
}
$i += 3;
}
if($mode == 1){
$b[$i] -= 0x21;
$c1 = ($table_han2zen_jis[$b[$i]] & 0xff00) >> 8;
$c2 = $table_han2zen_jis[$b[$i]] & 0x00ff;
$str_ZEN .= pack("CC", $c1, $c2);
}elseif($i < strlen($str_HAN)){
$str_ZEN .= pack("C", $b[$i]);
}
}
return $str_ZEN;
}
?>

```

2. mail.phps

使い方： 以下のサンプルを参照のこと

```

<?
include("../jcode.phps");
class ErrorMsg{
var $TemplateFile;
var $ErrMsg;
function init()
{
$this->TemplateFile = "";
$this->ErrMsg = "・エラーが発生しました!\n";
}
function CallError(){
if(is_readable($this->TemplateFile)){
$myFile = fopen($this->TemplateFile,"r");
while(!feof($myFile)){
$myLine = fgets($myFile, 255);
$myLine = ereg_replace("_____(^[^%]+)____",nl2br($this->ErrMsg),$myLine);
print($myLine);
}
fclose($myFile);
}else{
print "内部エラー<数時間後、やりなおしてください>\n";
exit;
}
}
}

```


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```
}
}
}
class Mail{
var $subject;
var $mailto;
var $mailfrom;
var $mailcc;
var $mailbcc;
var $context;
var $codefrom;
var $codeto;
var $mailheader;
var $ErrorTemplate;
/* コンストラクタ */
function init()
{
$this->subject = "";
$this->mailto = "";
$this->mailfrom = "";
$this->mailcc = "";
$this->mailbcc = "";
$this->mailheader = "Content-Type: text/plain; charset=ISO-2022-JP
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0";
$this->context = "";
$this->codefrom = 2; //Shift_JIS
$this->codeto = 3; // JIS
$this->ErrorTemplate = "";
}
function SetTemplateFile($TemplateFile,$vars)
{
for ($i=0;$i<count($vars);$i++){
eval("global \${$vars[$i]};\n");
}
if(is_readable($TemplateFile)){
$this->context = "";
$myFile = fopen($TemplateFile,"r");
while(!feof($myFile)){
$myLine = fgets($myFile, 255);
ereg("__(^[^%]+)%__",$myLine,$match);
$myLine = ereg_replace("__(^[^%]+)%__",${$match[1]},$myLine);
$this->context .= $myLine;
}
fclose($myFile);
}
```

```

}else{
$this->context = "";
}
}
function SendMail()
{
    $errmsg = "";
    if (!EmailCheck($this->mailto)){ $errmsg .= "・メールアドレスのTo (送信先アドレス) の形式が正しくありません。 \n";}
    if (!EmailCheck($this->mailfrom)){ $errmsg .= "・メールアドレスのFrom (送信元アドレス) の形式が正しくありません。 \n";}
    if ($this->context == ""){ $errmsg .= "・メール内容がありません。 \n";}
    if ($this->subject == ""){ $errmsg .= "・メールタイトルがありません。 \n";}
    if ($errmsg != ""){
        $err = new ErrorMsg;
        $err->init();
        $err->ErrMsg = $errmsg;
        $err->TemplateFile = $this->ErrorTemplate;
        $err->CallError();
        exit;
    }
    $this->mailto = JcodeConvert($this->mailto,$this->codefrom,$this->codeto);
    $this->mailheader = "From: " . JcodeConvert($this->mailfrom,$this->codefrom,$this->codeto) . "\n" . $this->mailheader;
    $this->subject = "=?iso-2022-jp?B?" . base64_encode(JcodeConvert($this->subject,$this->codefrom,$this->codeto)) . "?=";
    $this->context = JcodeConvert($this->context,$this->codefrom,$this->codeto);
    mail($this->mailto,$this->subject,$this->context,$this->mailheader);
}
}
Function EmailCheck($mail_addr){
    $esc = '\\\\\\\\'; $Period = '\\.';
    $space = '\\040';
    $OpenBR = '\\['; $CloseBR = '\\]';
    $NonASCII = '\\x80-\\xff'; $ctrl = '\\000-\\037';
    $CRList = '\\n\\015';
    $qtext = "[^$esc$NonASCII$CRList\\"]";
    $dtext = "[^$esc$NonASCII$CRList$OpenBR$CloseBR]";
    $quoted_pair = "$esc[^$NonASCII]";
    $atom_char = "[^($space)<>@,;:&\\^!#\\$%\\. $esc$OpenBR$CloseBR$ctrl$NonASCII]";
    $atom = "$atom_char+(?!$atom_char)";
    $quoted_str = "\"$qtext*(?:$quoted_pair$qtext)*\"";
    $word = "(?:$atom|$quoted_str)";
    $domain_ref = $atom;
    $domain_lit = "$OpenBR(?:$dtext|$quoted_pair)*$CloseBR";
}

```

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```
$sub_domain = "(?:$domain_ref|$domain_lit)";
$domain = "$sub_domain(?:$Period$sub_domain)+$";
$local_part = "^$word(?:$Period$word)*";
$addr_spec = "$local_part@$domain";
$mail_regex = $addr_spec;
if (!preg_match("/$mail_regex/i", $mail_addr)){ $ret = 0; }else{ $ret = 1; }
return $ret;
}
?>
```

3. mailsample.phps (上記mail.phps, jcode.phpsを使ったサンプル)

```
<?
include("../mail.phps");
$Name = ($Name) ? $Name : "ななしのごんべい";
$mail = new Mail;
$mail->init();
$mail->subject = "$Name さんからのメールです";
$mail->mailfrom = $MailFrom;
$mail->mailto = $MailTo;
$mail->ErrorTemplate = "../ErrorTemplate.txt";
$vars = Array("message", "Kanso", "Name");
$mail->SetTemplateFile("../EmailTemplate1.txt", $vars);
$mail->SendMail();
$mail = new Mail;
$mail->init();
$mail->subject = "$Name 様 メッセージありがとうございました";
$mail->mailfrom = $MailTo;
$mail->mailto = $MailFrom;
$vars = Array("message", "Kanso", "Name", "MailTo", "MailFrom");
$mail->SetTemplateFile("../EmailTemplate2.txt", $vars);
$mail->SendMail();
?>
```

(注: EmailTemplate1.txt

___%Name%___ さんからメッセージが届きました。

感想: ___%Kanso%___

内容: ___%message%___

)

(注: EmailTemplate2.txt

___%Name%___ 様：
メッセージ、ありがとうございました。
以下のメールを、___%MailTo%___宛てに送信
いたしました。
これからも宜しくお願い申し上げます。

感想： ___%Kanso%___
内容： ___%message%___

)

4. さいごに

余談：1年前くらいに作ったのですが、折角なので公表します。尚、jcode.phpsは、PHP4.04のときのものなのですが、今(PHP4.12)は、日本語変換が自動で出来るかと思うので、あまり意味ないでしょう(笑)

どういう動きをしているか知りたい方は、[MAIL](#)してみてください。
あと、ファイルは全て同一ディレクトリに入れる必要があります。