



## Squirrelmail 客製化與優化

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**SquirrelMail**  
webmail  
for  
nuts

松鼠電子郵件管理系統 1.4.8  
由松鼠電子郵件管理系統研發小組設計  
朝陽資工 CSIE CYUT WebMail

**SquirrelMail 登入**

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March 11, 2016

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    1. 朝陽資工系webmail
    2. Squirrelmail 官網



# Contents

<b>1</b>	<b>安裝</b>	<b>1</b>
1.1	RPM 套件安裝 . . . . .	1
1.2	Tarball 原始碼安裝 . . . . .	2
<b>2</b>	<b>比對</b>	<b>3</b>
2.1	檔案比對 . . . . .	3
<b>3</b>	<b>目錄 functions</b>	<b>7</b>
3.1	檔案比對 . . . . .	7
3.2	db_prefs.php . . . . .	8
3.3	display_messages.php . . . . .	8
3.4	global.php . . . . .	8
3.5	i18n.php . . . . .	9
3.6	imap_general.php . . . . .	10
3.7	imap_messages.php . . . . .	10
3.8	imap_search.php . . . . .	11
3.9	mailbox_display.php . . . . .	12
3.10	mime.php . . . . .	13
3.11	page_header.php . . . . .	18
3.12	strings.php . . . . .	18
3.13	tree.php . . . . .	19
<b>4</b>	<b>目錄 include</b>	<b>21</b>
4.1	檔案比對 . . . . .	21
4.2	personal.php . . . . .	21
<b>5</b>	<b>目錄 plugins</b>	<b>23</b>
5.1	檔案比對 . . . . .	23
5.2	auth.php . . . . .	23
5.3	options.php . . . . .	24
5.4	filters.php . . . . .	25
5.5	setup.php . . . . .	26
5.6	sqspell_interface.php . . . . .	26
5.7	sqspell_options.php . . . . .	27

<b>6 目錄 src</b>	<b>29</b>
6.1 檔案比對 . . . . .	29
6.2 addressbook.php . . . . .	29
6.3 compose.php . . . . .	30
6.4 configtest.php . . . . .	34
6.5 empty_trash.php . . . . .	34
6.6 left_main.php . . . . .	35
6.7 login.php . . . . .	37
6.8 printer_friendly_bottom.php . . . . .	39
6.9 printer_friendly_main.php . . . . .	39
6.10 read_body.php . . . . .	40
6.11 redirect.php . . . . .	43
6.12 right_main.php . . . . .	43
6.13 view_header.php . . . . .	44
6.14 view_text.php . . . . .	45
6.15 webmail.php . . . . .	45
<b>7 自訂佈景主題</b>	<b>47</b>
7.1 檔案比對 . . . . .	47
7.2 新增佈景主題 . . . . .	47
<b>8 更新版本</b>	<b>51</b>
8.1 版本說明 . . . . .	51
8.2 hex2bin . . . . .	51
8.3 部分信件中文寄信者及主題不見 . . . . .	52
<b>9 其他</b>	<b>53</b>
9.1 漏字 . . . . .	53
9.2 Firefox Crash . . . . .	53

# Chapter 1

## 安裝

### 1.1 RPM 套件安裝

1. Squirrelmail 有 rpm 套件，可直接下載相容的 rpm 安裝。CentOS 6 可安裝以下套件。

```
1 [root@mail src]# rpm -ivh ftp://ftp.is.co.za/mirror/fedora.redhat
   .com/epel/6/i386/squirrelmail-1.4.22-4.el6.noarch.rpm
```

2. Squirrelmail 設定檔。

```
1 [root@mail src]# rpm -ql squirrelmail | grep /etc
3 /etc/cron.daily/squirrelmail.cron
3 /etc/httpd/conf.d/squirrelmail.conf
   /etc/squirrelmail
5 /etc/squirrelmail/config.php
   /etc/squirrelmail/config_local.php
7 /etc/squirrelmail/default_pref
   /etc/squirrelmail/sqspell_config.php
```

3. Squirrelmail 安裝目錄 /usr/share/squirrelmail。

```
2 [root@mail src]# grep Alias /etc/httpd/conf.d/squirrelmail.conf
   Alias /webmail /usr/share/squirrelmail
```

## 1.2 Tarball 原始碼安裝

1. 從 Squirrelmail 官網 下載原始碼安裝。目前版本為 1.4.22。

```
2 [root@mail ~]# cd /usr/src
  [root@mail src]# cd /usr/src
  [root@mail src]# wget http://squirrelmail.org/countdl.php?fileurl
    =http%3A%2F%2Fprdownloads.sourceforge.net%2Fsquirrelmail%2
    F%2Fsquirrelmail-webmail-1.4.22.tar.gz
```

2. 本系統架設時版本為 1.4.8，下載 1.4.8 版原始碼。

```
1 [root@mail src]# wget http://downloads.sourceforge.net/project/
  squirrelmail/stable/1.4.8/squirrelmail-1.4.8.tar.gz?r=http%3A
  %2F%2Ffr.sourceforge.jp%2Fprojects%2Fsfnet_squirrelmail%2
  Fdownloads%2Fstable%2F1.4.8%2Fsquirrelmail-1.4.8.tar.gz%2F&ts
  =1405827405&use_mirror=heanet
```

3. 解打包及解壓縮。

```
1 [root@mail src]# tar zxvf squirrelmail-1.4.8.tar.gz
  [root@mail src]# ll -d squirrelmail-1.4.8
3 drwxr-xr-x. 16 1000 users 4096 Aug 11 2006 squirrelmail-1.4.8
```

4. 查看目錄內檔案，先閱讀 README 檔，再依照 INSTALL 檔說明安裝。

```
1 [root@mail src]# ls squirrelmail-1.4.8
3 AUTHORS      configure  doc        include    plugins    src
  ChangeLog    contrib   functions  index.php  po         themes
  class        COPYING   help       INSTALL    README     UPGRADE
5 config       data      images     locale     ReleaseNotes
```



# Chapter 2

## 比對

### 2.1 檔案比對

1. 已完成程式修改才進行文件撰寫，先比對修改前後的差異。

```
1 [root@mail src]# cd squirrelmail-1.4.8
2 [root@mail squirrelmail-1.4.8]# diff --ignore-all-space -qr . /
   var/www/squirrelmail/ | egrep -v "(\\.png|locale:|decode:|help
   :|\\.bak|Only.*plugins|tar.gz|hlp)" | sort
3 Files ./functions/db_prefs.php and /var/www/squirrelmail/
   functions/db_prefs.php differ
4 Files ./functions/display_messages.php and /var/www/squirrelmail/
   functions/display_messages.php differ
5 Files ./functions/global.php and /var/www/squirrelmail/functions/
   global.php differ
6 Files ./functions/i18n.php and /var/www/squirrelmail/functions/
   i18n.php differ
7 Files ./functions/imap_general.php and /var/www/squirrelmail/
   functions/imap_general.php differ
8 Files ./functions/imap_messages.php and /var/www/squirrelmail/
   functions/imap_messages.php differ
9 Files ./functions/imap_search.php and /var/www/squirrelmail/
   functions/imap_search.php differ
10 Files ./functions/mailbox_display.php and /var/www/squirrelmail/
   functions/mailbox_display.php differ
11 Files ./functions/mime.php and /var/www/squirrelmail/functions/
   mime.php differ
12 Files ./functions/page_header.php and /var/www/squirrelmail/
   functions/page_header.php differ
13 Files ./functions/strings.php and /var/www/squirrelmail/functions
   /strings.php differ
14 Files ./functions/tree.php and /var/www/squirrelmail/functions/
   tree.php differ
15 Files ./include/load_prefs.php and /var/www/squirrelmail/include/
   load_prefs.php differ
16 Files ./include/options/personal.php and /var/www/squirrelmail/
   include/options/personal.php differ
```

```
17 Files ./include/validate.php and /var/www/squirrelmail/include/  
   validate.php differ  
Files ./index.php and /var/www/squirrelmail/index.php differ  
19 Files ./plugins/administrator/auth.php and /var/www/squirrelmail/  
   plugins/administrator/auth.php differ  
Files ./plugins/administrator/options.php and /var/www/  
   squirrelmail/plugins/administrator/options.php differ  
21 Files ./plugins/filters/filters.php and /var/www/squirrelmail/  
   plugins/filters/filters.php differ  
Files ./plugins/filters/setup.php and /var/www/squirrelmail/  
   plugins/filters/setup.php differ  
23 Files ./plugins/message_details/message_details_bottom.php and /  
   var/www/squirrelmail/plugins/message_details/  
   message_details_bottom.php differ  
Files ./plugins/squirrelspell/sqspell_interface.php and /var/www/  
   squirrelmail/plugins/squirrelspell/sqspell_interface.php  
   differ  
25 Files ./plugins/squirrelspell/sqspell_options.php and /var/www/  
   squirrelmail/plugins/squirrelspell/sqspell_options.php differ  
Files ./src/addressbook.php and /var/www/squirrelmail/src/  
   addressbook.php differ  
27 Files ./src/compose.php and /var/www/squirrelmail/src/compose.php  
   differ  
Files ./src/configtest.php and /var/www/squirrelmail/src/  
   configtest.php differ  
29 Files ./src/download.php and /var/www/squirrelmail/src/download.  
   php differ  
Files ./src/empty_trash.php and /var/www/squirrelmail/src/  
   empty_trash.php differ  
31 Files ./src/left_main.php and /var/www/squirrelmail/src/left_main  
   .php differ  
Files ./src/login.php and /var/www/squirrelmail/src/login.php  
   differ  
33 Files ./src/mailto.php and /var/www/squirrelmail/src/mailto.php  
   differ  
Files ./src/printer_friendly_bottom.php and /var/www/squirrelmail  
   /src/printer_friendly_bottom.php differ  
35 Files ./src/printer_friendly_main.php and /var/www/squirrelmail/  
   src/printer_friendly_main.php differ  
Files ./src/read_body.php and /var/www/squirrelmail/src/read_body  
   .php differ  
37 Files ./src/redirect.php and /var/www/squirrelmail/src/redirect.  
   php differ  
Files ./src/right_main.php and /var/www/squirrelmail/src/  
   right_main.php differ  
39 Files ./src/view_header.php and /var/www/squirrelmail/src/  
   view_header.php differ  
Files ./src/view_text.php and /var/www/squirrelmail/src/view_text  
   .php differ  
41 Files ./src/webmail.php and /var/www/squirrelmail/src/webmail.php  
   differ
```

```
43 Only in /var/www/squirrelmail/: apachequota.sh
45 Only in /var/www/squirrelmail/: favicon.ico
Only in /var/www/squirrelmail/themes/css: dywang.css
Only in /var/www/squirrelmail/themes: dywang_theme.php
```

2. 根目錄上的 index.php，變更設定位置。

```
1 [root@mail squirrelmail-1.4.8]# diff -wuN ./index.php /var/www/
  squirrelmail/index.php
--- ./index.php 2006-02-04 06:27:46.000000000 +0800
3 +++ /var/www/squirrelmail/index.php 2006-12-31 08:18:15.000000000
   +0800
@@ -12,7 +12,7 @@
5     */
7     // Are we configured yet?
  -if( ! file_exists ( 'config/config.php' ) ) {
9 +if( ! file_exists ( '/etc/squirrelmail/config.php' ) ) {
     echo '<html><body><p><strong>ERROR:</strong> Config file ' .
11     ' &quot;<tt>config/config.php</tt>&quot;; not found. You
       need to ' .
       'configure SquirrelMail before you can use it.</p></body
       ></html>';
```



# Chapter 3

## 目錄 functions

### 3.1 檔案比對

1. 先找出目錄 functions 下有修改過的檔案。

```
[root@mail squirrelmail-1.4.8]# diff --ignore-all-space -qr . /
  var/www/squirrelmail/ | grep "Files \./functions" | sort
2 Files ./functions/db_prefs.php and /var/www/squirrelmail/
  functions/db_prefs.php differ
Files ./functions/display_messages.php and /var/www/squirrelmail/
  functions/display_messages.php differ
4 Files ./functions/global.php and /var/www/squirrelmail/functions/
  global.php differ
Files ./functions/i18n.php and /var/www/squirrelmail/functions/
  i18n.php differ
6 Files ./functions/imap_general.php and /var/www/squirrelmail/
  functions/imap_general.php differ
Files ./functions/imap_messages.php and /var/www/squirrelmail/
  functions/imap_messages.php differ
8 Files ./functions/imap_search.php and /var/www/squirrelmail/
  functions/imap_search.php differ
Files ./functions/mailbox_display.php and /var/www/squirrelmail/
  functions/mailbox_display.php differ
10 Files ./functions/mime.php and /var/www/squirrelmail/functions/
  mime.php differ
Files ./functions/page_header.php and /var/www/squirrelmail/
  functions/page_header.php differ
12 Files ./functions/strings.php and /var/www/squirrelmail/functions
  /strings.php differ
Files ./functions/tree.php and /var/www/squirrelmail/functions/
  tree.php differ
```

## 3.2 db\_prefs.php

1. 設定檔位置在 /etc/squirrelmail/config.php °

```

1 [root@mail squirrelmail-1.4.8]# diff -uN ./functions/db_prefs.php
  /var/www/squirrelmail/functions/db_prefs.php--- ./functions/
  db_prefs.php 2006-04-15 06:27:07.000000000 +0800
+++ /var/www/squirrelmail/functions/db_prefs.php 2006-12-31
  08:18:15.000000000 +0800
3 @@ -36,7 +36,7 @@
  /** PostgreSQL */
5  define('SMDB_PGSQL', 2);
7  -require_once(SM_PATH . 'config/config.php');
  +require_once('/etc/squirrelmail/config.php');
9  if (!include_once('DB.php')) {
  // same error also in abook_database.php
11  require_once(SM_PATH . 'functions/display_messages.php');

```

## 3.3 display\_messages.php

1. 設定設定檔位置在 /etc/squirrelmail/config.php °

```

1 [root@mail squirrelmail-1.4.8]# diff -wuN ./functions/
  display_messages.php /var/www/squirrelmail/functions/
  display_messages.php
--- ./functions/display_messages.php 2006-05-15
  01:45:29.000000000 +0800
3 +++ /var/www/squirrelmail/functions/display_messages.php
  2012-10-02 10:01:52.000000000 +0800
@@ -42,7 +42,7 @@
5  include_once( SM_PATH . 'functions/page_header.php' );
  if ( !isset( $org_logo ) ) {
7  // Don't know yet why, but in some accesses $org_logo is
  not set.
-  include( SM_PATH . 'config/config.php' );
9  +  include( '/etc/squirrelmail/config.php' );
  }
11 /* Display width and height like good little people */
  $width_and_height = '';

```

## 3.4 global.php

1. 設定設定檔位置在 /etc/squirrelmail/config.php °

```
[root@mail squirrelmail-1.4.8]# diff -wuN ./functions/global.php
./var/www/squirrelmail/functions/global.php
2 --- ./functions/global.php 2006-07-29 16:57:52.000000000 +0800
+++ /var/www/squirrelmail/functions/global.php 2012-04-27
   08:58:45.000000000 +0800
4 @@ -89,7 +89,7 @@
   * strings.php sets $PHP_SELF.
6  */
   require_once(SM_PATH . 'functions/strings.php');
8 -require_once(SM_PATH . 'config/config.php');
+require_once('/etc/squirrelmail/config.php');
10
   /** set the name of the session cookie */
12  if(isset($session_name) && $session_name) {
```

## 3.5 i18n.php

1. 預設中文編碼由 big5 改成 utf-8。

```
[root@mail squirrelmail-1.4.8]# diff -uwN ./functions/i18n.php /
./var/www/squirrelmail/functions/i18n.php
2 --- ./functions/i18n.php 2006-04-30 12:49:34.000000000 +0800
+++ /var/www/squirrelmail/functions/i18n.php 2012-05-21
   16:07:39.000000000 +0800
4 @@ -836,13 +836,13 @@
   $languages['tr']['ALIAS']      = 'tr_TR';
6
   $languages['zh_TW']['NAME']    = 'Chinese Trad';
8 -$languages['zh_TW']['CHARSET'] = 'big5';
-$languages['zh_TW']['LOCALE']   = 'zh_TW.BIG5';
10 +$languages['zh_TW']['CHARSET'] = 'utf-8';
+$languages['zh_TW']['LOCALE']   = array('zh_TW.UTF-8', 'zh_TW.Big5
   ');
12 $languages['tw']['ALIAS']      = 'zh_TW';
14 $languages['zh_CN']['NAME']    = 'Chinese Simp';
   $languages['zh_CN']['CHARSET'] = 'gb2312';
16 -$languages['zh_CN']['LOCALE'] = 'zh_CN.GB2312';
+$languages['zh_CN']['LOCALE']   = array('zh_CN.GB2312', 'zh_CN.GBK
   ');
18 $languages['cn']['ALIAS']      = 'zh_CN';
20 $languages['uk_UA']['NAME']    = 'Ukrainian';
```

## 3.6 imap\_general.php

1. 系統記錄登入錯誤訊息。

```

[root@mail squirrelmail-1.4.8]# diff -uwN ./functions/
    imap_general.php /var/www/squirrelmail/functions/imap_general.
    php
2 --- ./functions/imap_general.php      2006-07-07 04:39:38.000000000
    +0800
+++ /var/www/squirrelmail/functions/imap_general.php
    2013-03-18 17:59:07.000000000 +0800
4 @@ -15,6 +15,7 @@
    /** Includes.. */
6   require_once(SM_PATH . 'functions/page_header.php');
    require_once(SM_PATH . 'functions/auth.php');
8 +require_once(SM_PATH . 'functions/mime.php');

10
11  /**
12 @@ -100,6 +101,7 @@
        }
14     $results .= $read;
        }
16 + // $results = decodeHeader ($resulte, true,true,false);
        return $results;
18 }

20 @@ -571,6 +573,8 @@
        sqsession_destroy();
22     /* terminate the session nicely */
    sqimap_logout($imap_stream);
24 + sqgetGlobalVar('REMOTE_ADDR', $remote_ip,
    SQ_SERVER);
+   syslog(LOG_MAIL|LOG_NOTICE,"Squirrelmail login
    failed for Username: $username (HostIP: $remote_ip)");
26     logout_error( _("Unknown user or password
        incorrect." ) );
        exit;

```

## 3.7 imap\_messages.php

1. BUG 修正，preg\_split 函式的 flag 為 PREG\_SPLIT\_NO\_EMPTY，不是 PREG\_SPLIT\_NI\_EMPTY，且不能用單引號括起來。

```

1 [root@mail squirrelmail-1.4.8]# diff -uwN ./functions/
    imap_messages.php /var/www/squirrelmail/functions/
    imap_messages.php

```



```

--- ./functions/imap_messages.php 2006-07-29 16:46:57.000000000
+0800
3 +++ /var/www/squirrelmail/functions/imap_messages.php
2013-08-30 19:56:15.702472423 +0800
@@ -805,7 +805,7 @@
5     if ($read) {
6         if (preg_match('/.+FLAGS\s\((.*)\)\s/AUi',$read[0],$regs
7             )) {
8             if (trim($regs[1])) {
9 -                 $flags = preg_split('/ /', $regs[1,-1,'
PREG_SPLIT_NO_EMPTY');
10 +                 $flags = preg_split('/ /', $regs[1,-1,
PREG_SPLIT_NO_EMPTY); //dywang
11             }
12         } else {

```

## 3.8 imap\_search.php

1. 更改郵件搜尋編碼固定為 zh\_TW，當用戶使用英文界面，也可以進行中文郵件搜尋。

```

[root@mail squirrelmail-1.4.8]# diff -wuN ./functions/imap_search
.php /var/www/squirrelmail/functions/imap_search.php
2 --- ./functions/imap_search.php 2006-02-04 06:27:47.000000000
+0800
+++ /var/www/squirrelmail/functions/imap_search.php 2012-05-16
09:44:32.000000000 +0800
4 @@ -71,7 +71,7 @@
5     if ($allow_charset_search && isset($languages[
6         $squirrelmail_language]['CHARSET']) &&
7         $languages[$squirrelmail_language]['CHARSET']) {
8 -         $ss = "SEARCH CHARSET "
9         . strtoupper($languages[$squirrelmail_language]['
10        CHARSET'])
11 +         . strtoupper($languages['zh_TW']['CHARSET']) //
12        dywang
13         . " ALL $search_string";
14     } else {
15         $ss = "SEARCH ALL $search_string";

```

### 3.9 mailbox\_display.php

1. decodeHeader 函式主導郵件編碼的解碼，\$utfencode=true 表示郵件為 utf8 編碼，\$htmlsave=true 表示保留 html 格式，\$decode=false 表示決定不必解碼。

```
[root@mail squirrelmail-1.4.8]# grep ^function.*decodeHeader -R /
var/www/squirrelmail/
2 /var/www/squirrelmail/functions/mime.php:function decodeHeader (
    $string, $utfencode=true,$htmlsave=true,$decode=false) { //
    dywang debug this function
```

2. 為得到更正確的郵件編碼的解碼，郵件顯示時呼叫 decodeHeader 函式時，傳入 \$utfencode=false,\$htmlsave=false,\$decode=true 三個參數。

```
[root@mail squirrelmail-1.4.8]# diff -wuN ./functions/
mailbox_display.php /var/www/squirrelmail/functions/
mailbox_display.php
2 --- ./functions/mailbox_display.php 2006-06-08 22:59:19.000000000
+0800
+++ /var/www/squirrelmail/functions/mailbox_display.php
2014-07-20 18:54:04.012333656 +0800
4 @@ -105,7 +105,7 @@
    }
6
8         if ($senderNames_part[1]) {
-             $senderName .= decodeHeader($senderNames_part
+             $senderName .= decodeHeader($senderNames_part
+ [1],false,false,true); //dywang
10         } else {
            $senderName .= htmlspecialchars(
                $senderNames_part[0]);
12     }
14 @@ -196,7 +196,7 @@
    }
    $checked = ($checkall == 1) ? ' CHECKED' : '';
    $col = 0;
16 - $msg['SUBJECT'] = decodeHeader($msg['SUBJECT']);
18 + $msg['SUBJECT'] = decodeHeader($msg['SUBJECT'],false,false,
true); //dywang
// $subject = processSubject($msg['SUBJECT'], $indent_array[
$msg['ID']]);
20 $subject = truncateWithEntities(str_replace('&nbsp;',' ',
$msg['SUBJECT']), $truncate_subject);
    if (sizeof($index_order)) {
```

## 3.10 mime.php

1. MIME 是通過標準化電子郵件報文的頭部的附加域 (fields) 而實現的；這些頭部的附加域，描述新的報文類型的內容和組織形式。mime.php 包含檢查及解碼 MIME 郵件所需的函式。

```

1 [root@mail squirrelmail-1.4.8]# diff -uwBN functions/mime.php /
  var/www/squirrelmail/functions/mime.php
--- functions/mime.php 2006-06-20 14:14:53.000000000 +0800
3 +++ /var/www/squirrelmail/functions/mime.php    2014-01-10
   09:35:57.104824062 +0800

```

2. 修改郵件內容顯示方式。

```

1 @@ -288,7 +288,7 @@
3
4     $body_ary[$i] = $line;
5     }
6 -   $body = '<pre>' . implode("\n", $body_ary) . '</pre>';
7 +   $body = implode("<br>\n", $body_ary); // . '</pre>'; //dywang
8 }
9 /**

```

3. 原檔名常出現亂碼，改成先經過自行撰寫的函式 utf8convert 解碼後不再出現亂碼。

```

1 @@ -465,7 +465,7 @@
2     }
3 }
4
5 -   $display_filename = $filename;
6 +   $display_filename = utf8convert($filename, ''); //dywang
7   if (isset($passed_ent_id)) {
8       $passed_ent_id_link = '&passed_ent_id=' .
9       $passed_ent_id;
10  } else {

```

4. 修改郵件 header 解碼方式。

```

1 @@ -495,7 +499,7 @@
2     $defaultlink = $hookresults[6];
3

```

```

        $attachments .= '<tr><td>' .
5 -         '<a href="'. $defaultlink. '>' . decodeHeader(
    $display_filename) . '</a>&nbsp;&nbsp;&nbsp;</td>' .
+         '<a href="'. $defaultlink. '>' . decodeHeader(
    $display_filename, false, false, true) . '</a>&nbsp;&nbsp;&nbsp;</td>' . //
    dywang
7         '<td><small><b>' . show_readable_size($header->size)
        .
        '</b>&nbsp;&nbsp;&nbsp;</small></td>' .
9         '<td><small>[ '. htmlspecialchars($type0) . ']' .
        htmlspecialchars($type1) . ' ]&nbsp;&nbsp;&nbsp;</small></td>'
        .

```

5. decodeHeader 函式主導郵件編碼的解碼，\$utfencode=true 表示郵件為 utf8 編碼，\$htmlsave=true 表示保留 html 格式，\$decode=false 表示決定不必解碼。如果 Header 出現 =?，而且沒出現 =?，也就是出現編碼開始，但沒有編碼結束，就刪除換行等符號，直到變數 \$pre\_chunk 包含整個郵件的 header，以利解碼。

```

1 -function decodeHeader ($string, $utfencode=true,$htmlsave=true,
    $decode=false) {
+function decodeHeader ($string, $utfencode=true,$htmlsave=true,
    $decode=false) { //dywang debug this function
3     global $languages, $squirrelmail_language,$default_charset;
    if (is_array($string)) {
5         $string = implode("\n", $string);
@@ -604,8 +615,10 @@
7         $iLastMatch = -2;
        $encoded = false;
9
+     static $pre_chunk; //dywang
11     $aString = explode(' ', $string);
        $ret = '';
13     foreach ($aString as $chunk) {
        if ($encoded && $chunk === '') {
15         continue;
@@ -616,8 +629,14 @@
17         $encoded = false;
        /* if encoded words are not separated by a linear-space-
           white we still catch them */
19         $j = $i-1;
-
21 +     if (preg_match('/^.*=?[^\?]*/', $chunk) && !preg_match
        ('/[^\?]*\?=.*$/', $chunk)) { //dywang begin
+         $pre_chunk = preg_replace("/[\n\t\r]/", '', $chunk);
23 +         $chunk='';
+     } else{// if (!preg_match(preg_match('/^.*=?/',
        $pre_chunk) && preg_match('/\?=.*$/', $chunk)) {

```

```

25 | +         $chunk = $pre_chunk . $chunk;
+         $pre_chunk = '';
27 | +     } // dywang end
+         /* if the last chunk isn't an encoded string then
+         put back the space, otherwise don't */
29 |         if ($iLastMatch !== $j) {
+             if ($htmlsave) {

```

6. 因已自行設計解碼函式，故不再先測試是否可安全轉碼。

```

@@ -634,9 +653,12 @@
2 |         $ret .= $res[1];
+     }
4 |         $encoding = ucfirst($res[3]);
+
6 |         /* decide about valid decoding */
-         if ($decide && is_conversion_safe($res[2])) {
8 | +         if ($decide) {
+             $scan_be_encoded=true;
10 |     } else {
+         $scan_be_encoded=false;

```

7. 如果必須解碼，改採用自行設計解碼函式 `utf8convert`。

```

1 | @@ -648,10 +670,12 @@
+         $replace = base64_decode($res[4]);
3 |         if ($scan_be_encoded) {
+             // string is converted from one charset
+             to another. sanitizing depends on
+             $htmlsave
5 | -         $replace = charset_convert($res[2],
+         $replace,$default_charset,$htmlsave);
+         $replace = utf8convert($replace,$res[2]);
+         //dywang
7 |     } elseif ($utfencode) {
+         // string is converted to htmlentities
+         and sanitized
9 |         $replace = charset_decode($res[2],
+         $replace);
@@ -664,7 +688,8 @@
11 |         $replace);
+         if ($scan_be_encoded) {
13 |             // string is converted from one charset
+             to another. sanitizing depends on
+             $htmlsave
-         $replace = charset_convert($res[2],
+         $replace,$default_charset,$htmlsave);

```

```

15 | +           $replace = utf8convert($replace,$res[2]);
    | //dywang
    |           } elseif ($utfencode) {
17 |             // string is converted to html entities
    |             and sanitized
    |             $replace = charset_decode($res[2],
    |             $replace);

```

## 8. 改變編碼偵測順序。

```

@@ -723,7 +749,7 @@
2 |     }
    |
4 |     // Use B encoding for multibyte charsets
-   $mb_charsets = array('utf-8','big5','gb2313','euc-kr');
6 | +   $mb_charsets = array('utf-8','gb2313','big-5','euc-cn','
    | cp936');
    |     if (in_array($default_charset,$mb_charsets) &&
8 |         in_array($default_charset,sq_mb_list_encodings()) &&
    |         sq_is8bit($string)) {

```

## 9. encodeHeader 函式郵件抬頭長度 75 不適合中文，改成 120 比較適合。

```

1 | @@ -735,9 +761,10 @@
    |     // Encode only if the string contains 8-bit characters or =?
3 |     $j = strlen($string);
-   $max_l = 75 - strlen($default_charset) - 7;
5 | +   $max_l = 120 - strlen($default_charset) - 7; //dywang 75 亂
    |     碼 for full_name
    |     $aRet = array();
7 |     $ret = '';
    |     $iEncStart = $enc_init = false;
9 | @@ -897,7 +924,7 @@
    |     * remove =? ? ?= (5 chars)
11 |     * remove 2 more chars (\r\n ?)
    |     */
13 | -   $iMaxLength = 75 - strlen($charset) - 7;
    | +   $iMaxLength = 120 - strlen($charset) - 7; //dywang
15 |
    |     // set first character position
17 |     $iStartCharNum = 0;

```

## 10. 如果使用 IE 瀏覽器，取消檔名轉換成 RFC1738 編碼。

```

1 @@ -2152,7 +2326,7 @@
   // version
3 //set all the Cache Control Headers for IE
   if ($isIE) {
5 -     $filename=rawurlencode($filename);
+     //$filename=rawurlencode($filename); //dywang
7     header ("Pragma: public");
     header ("Cache-Control: no-store, max-age=0, no-cache,
           must-revalidate"); // HTTP/1.1
9     header ("Cache-Control: post-check=0, pre-check=0",
           false);

```

11. 自行建立的解碼函式，目前已是最佳狀況，出現亂碼的機率很低。

```

1 +/**
+ * This is a function to convert string coding to UTF-8.
3 + *
+ * Author De-Yu Wang 2012/04/28 dywang
5 + * @param $str the string
+ * @param $default_charset
7 + * @return a string encoded by UTF-8
+ */
9 +function utf8convert($str, $actual) { //dywang optimal, Don't
   change
+     global $default_charset;
11 +     if(stristr($actual,'UTF-8')) return $str;//.'!&'.
       $actual;
+     if(stristr($actual,'gb2312') || strstr($actual,'
       gb18030'))
13 +         return mb_convert_encoding($str,$default_charset,'GBK
       ');;//.'!#'.$actual;
+         if($actual!=" " && !strstr($actual,'gb18030'))
15 +             return mb_convert_encoding($str,$default_charset,
       $actual);//.'!+'.$actual;//.$default_charset.$detect;
+             $encoding_list = 'UTF-8,GB2312,BIG-5,CP936, GBK, EUC-CN';
17 +             $detect = mb_detect_encoding($str,$encoding_list);
+             if(stristr($detect,'UTF'))
19 +                 return $str;//.'!/'.$detect;
+             if(stristr($detect,'GB') || strstr($detect,'!EUC-CN'))
21 +                 return mb_convert_encoding($str,$default_charset,'
       GB2312');//.'!-'.$detect;
+             if(stristr($detect,'C' ) || strstr($detect,'BIG'))
23 +                 return mb_convert_encoding($str,$default_charset,
       $detect);//.'!x'.$detect;
+             if($detect == '')
25 +                 return mb_convert_encoding($str,$default_charset,'EUC
       -CN');//.'!C'.$detect;
+             return $str;//.'!/'.$detect;

```

```

27 | +}
    | +
29 | ?>

```

## 3.11 page\_header.php

1. 在網頁上顯示登入的用戶名稱，加入用戶變數。

```

1  [root@mail squirrelmail-1.4.8]# diff -wuN ./functions/page_header
   .php /var/www/squirrelmail/functions/page_header.php
--- ./functions/page_header.php 2006-06-14 22:25:41.000000000
    +0800
3  +++ /var/www/squirrelmail/functions/page_header.php 2010-11-18
    16:46:47.000000000 +0800
   @@ -88,7 +88,7 @@
5         $compose_new_win, $compose_width, $compose_height,
6         $attachemessages, $provider_name, $provider_uri,
7         $javascript_on, $default_use_mdn, $mdn_user_support,
-        $startMessage;
9 +        $startMessage, $username;

11      sqgetGlobalVar('base_uri', $base_uri, SQ_SESSION );
      sqgetGlobalVar('delimiter', $delimiter, SQ_SESSION );

```

2. 在網頁右上角顯示登入的用戶名稱，連結登出網頁。

```

   @@ -271,7 +271,7 @@
2     }
   echo "          </td>\n"
4     . html_tag( 'td', '', 'right' ) . "<b>\n";
-   displayInternalLink ( 'src/signout.php', _("Sign Out"),
   $frame_top);
6 +   displayInternalLink ( 'src/signout.php', _("$username Sign
   Out"), $frame_top);
   echo "</b></td>\n"
8     . "          </tr>\n"
   . html_tag( 'tr', '', '', $color[4] ) . "\n"

```

## 3.12 strings.php

1. 增加外掛相容性檢查函式。



```

1 [root@mail squirrelmail-1.4.8]# diff -wuN ./functions/strings.php
  /var/www/squirrelmail/functions/strings.php
--- ./functions/strings.php 2006-08-11 19:15:43.000000000 +0800
3 +++ /var/www/squirrelmail/functions/strings.php 2012-05-05
   09:48:51.000000000 +0800
@@ -31,6 +31,7 @@
5   * For that reason, bring in global.php AFTER we define the
   version strings.
   */
7   require_once(SM_PATH . 'functions/global.php');
+include_once(SM_PATH . 'plugins/compatibility/functions.php');
9
+/**
11  * Wraps text at $wrap characters

```

2. 因為是中文系統，要判斷中文字數必須改用 `mb_strlen` 函式，若字串過長，直接截取固定長度的中文字，後加...

```

1 @@ -143,10 +144,11 @@
   function truncateWithEntities($s, $iTrimAt) {
3     global $languages, $squirrelmail_language;
5
-     $sent_strlen = strlen($s);
+     $sent_strlen = mb_strlen($s, 'UTF-8'); //dywang
7     if (($iTrimAt <= 0) || ($sent_strlen <= $iTrimAt))
         return $s;
9
+     return mb_substr($s,0,$iTrimAt,'UTF-8'). '...'; //dywang
11
         if (isset($languages[$squirrelmail_language]['XTRA_CODE'])
            &&
13             function_exists($languages[$squirrelmail_language]['
                XTRA_CODE'])) {

```

### 3.13 tree.php

1. 增加可一次清除的目錄 Sapm，原先只有 Trash。

```

1 [root@mail squirrelmail-1.4.8]# diff -uwN ./functions/tree.php /
  var/www/squirrelmail/functions/tree.php
--- ./functions/tree.php 2006-04-15 06:27:08.000000000 +0800
3 +++ /var/www/squirrelmail/functions/tree.php 2013-03-29
   09:43:04.000000000 +0800
@@ -78,8 +78,9 @@

```

```
5 | * @param array tree the tree to walk
   | * @return void
7 | */
   | -function walkTreeInPreOrderEmptyTrash($index, $imap_stream,
   |     $tree) {
9 | -     global $trash_folder;
   | +function walkTreeInPreOrderEmptyTrash($index, $imap_stream,
   |     $tree, $purge_folder) { //dywang
11 | +     $trash_folder=$purge_folder;
   |         if ($tree[$index]['doIHaveChildren']) {
13 |             for ($j = 0; $j < count($tree[$index]['subNodes']); $j
   |                 ++ ) {
   |                 walkTreeInPreOrderEmptyTrash($tree[$index]['subNodes
   |                     '][$j], $imap_stream, $tree);
```

# Chapter 4

## 目錄 include

### 4.1 檔案比對

1. 先找出目錄 include 下有修改過的檔案。

```
[root@mail squirrelmail-1.4.8]# diff --ignore-all-space -qr . /
  var/www/squirrelmail/ | grep "Files \./include" | sort
2 Files ./include/load_prefs.php and /var/www/squirrelmail/include/
  load_prefs.php differ
Files ./include/options/personal.php and /var/www/squirrelmail/
  include/options/personal.php differ
4 Files ./include/validate.php and /var/www/squirrelmail/include/
  validate.php differ
```

### 4.2 personal.php

1. 變更個人簽名分隔符號由 -- 改成 ++。

```
[root@mail squirrelmail-1.4.8]# diff -wuN ./include/options/
  personal.php /var/www/squirrelmail/include/options/personal.
  php
2 --- ./include/options/personal.php 2006-02-04 06:27:51.000000000
  +0800
+++ /var/www/squirrelmail/include/options/personal.php
  2012-04-29 20:23:24.000000000 +0800
4 @@ -208,7 +208,7 @@
6     $optvals[SMOPT_GRP_SIG] [] = array(
7         'name'     => 'prefix_sig',
8 -         'caption' => _("Prefix Signature with '--' Line"),
9 +         'caption' => _("Prefix Signature with '++' Line"),
10        'type'     => SMOPT_TYPE_BOOLEAN,
        'refresh'  => SMOPT_REFRESH_NONE
```

```
12 |     );
```

2. 設定設定檔位置在 /etc/squirrelmail/config.php °

```
[root@mail squirrelmail-1.4.8]# diff -wuN ./include/validate.php
./var/www/squirrelmail/include/validate.php
2 --- ./include/validate.php 2006-08-08 03:07:44.000000000 +0800
+++ /var/www/squirrelmail/include/validate.php 2006-12-31
    08:18:14.000000000 +0800
4 @@ -41,7 +41,7 @@
    require_once(SM_PATH . 'class/mime.class.php');
6    require_once(SM_PATH . 'functions/global.php');
    require_once(SM_PATH . 'functions/strings.php');
8 -require_once(SM_PATH . 'config/config.php');
+require_once('/etc/squirrelmail/config.php');
10
    /* set the name of the session cookie */
12    if(isset($session_name) && $session_name) {
```

# Chapter 5

## 目錄 plugins

### 5.1 檔案比對

1. 先找出目錄 plugins 下有修改過的檔案。

```
[root@mail squirrelmail-1.4.8]# diff --ignore-all-space -qr . /
  var/www/squirrelmail/ | grep "Files \./plugins" | sort
2 Files ./plugins/administrator/auth.php and /var/www/squirrelmail/
  plugins/administrator/auth.php differ
Files ./plugins/administrator/options.php and /var/www/
  squirrelmail/plugins/administrator/options.php differ
4 Files ./plugins/filters/filters.php and /var/www/squirrelmail/
  plugins/filters/filters.php differ
Files ./plugins/filters/setup.php and /var/www/squirrelmail/
  plugins/filters/setup.php differ
6 Files ./plugins/message_details/message_details_bottom.php and /
  var/www/squirrelmail/plugins/message_details/
  message_details_bottom.php differ
Files ./plugins/squirrelspell/sqspell_interface.php and /var/www/
  squirrelmail/plugins/squirrelspell/sqspell_interface.php
  differ
8 Files ./plugins/squirrelspell/sqspell_options.php and /var/www/
  squirrelmail/plugins/squirrelspell/sqspell_options.php differ
```

### 5.2 auth.php

1. 設定管理認證檔位置在 /etc/squirrelmail/plugins/administrator-admins。

```
[root@mail squirrelmail-1.4.8]# diff -wuN ./plugins/administrator
  /auth.php /var/www/squirrelmail/plugins/administrator/auth.php
2 --- ./plugins/administrator/auth.php      2006-02-04
  06:27:51.000000000 +0800
```

```

+++ /var/www/squirrelmail/plugins/administrator/auth.php
    2006-12-31 08:18:14.000000000 +0800
4 @@ -37,11 +37,11 @@
        $auths = file(SM_PATH . 'plugins/administrator/admins');
6         array_walk($auths, 'adm_array_trim');
        $auth = in_array($username, $auths);
8 -     } else if (file_exists(SM_PATH . 'config/admins')) {
-         $auths = file(SM_PATH . 'config/admins');
10 +     } else if (file_exists('/etc/squirrelmail/plugins/
administrator-admins')) {
+         $auths = file('/etc/squirrelmail/plugins/administrator-
admins');
12         array_walk($auths, 'adm_array_trim');
        $auth = in_array($username, $auths);

```

2. 設定設定檔位置在 /etc/squirrelmail/config.php。

```

1 -     } else if (($adm_id = fileowner(SM_PATH . 'config/config.php
')) &&
+     } else if (($adm_id = fileowner('/etc/squirrelmail/config.
php')) &&
3         function_exists('posix_getpuid')) {
        $adm = posix_getpuid( $adm_id );
5        $auth = ($username == $adm['name']);

```

## 5.3 options.php

1. 變更設定檔位置。

```

1 [root@mail squirrelmail-1.4.8]# diff -wuN ./plugins/administrator
./options.php /var/www/squirrelmail/plugins/administrator/
options.php
--- ./plugins/administrator/options.php 2006-02-04
    06:27:51.000000000 +0800
3 +++ /var/www/squirrelmail/plugins/administrator/options.php
    2006-12-31 08:18:14.000000000 +0800
@@ -185,7 +185,7 @@
5         // Since we're relative to the config dir,
        // more than 1 ../ puts us OUTSIDE the SM tree.
7         // get full path to config.php, then pop the filename
-         $abs_path = explode('/', realpath (SM_PATH . 'config/
config.php'));
9 +         $abs_path = explode('/', realpath ('/etc/squirrelmail/
config.php'));
        array_pop ($abs_path);

```

```

11         foreach ( $rel_path as $subdir ) {
12             if ( $subdir === '' ) {
13 @@ -236,8 +236,8 @@
14                 $newcfg[$key] = '';
15         }
16
17 -$cfgfile = SM_PATH . 'config/config.php';
18 -parseConfig( SM_PATH . 'config/config_default.php' );
19 +$cfgfile = '/etc/squirrelmail/config.php';
20 +parseConfig( '/etc/squirrelmail/config_default.php' );
21 parseConfig( $cfgfile );
22
23 $collapse = array( 'Titles' => 'off',
24 @@ -621,7 +621,7 @@
25     }
26     }
27     // add local config support
28 -    fwrite( $fp, "@include SM_PATH . 'config/config_local.php';\n" );
29 +    fwrite( $fp, "@include '/etc/squirrelmail/config_local.php';\n" );
30     // close php
31     fwrite( $fp, '?>' );
32     fclose( $fp );

```

## 5.4 filters.php

1. 設定只要用戶使用英文或中文界面，過濾語言皆設為繁體中文 zh\_TW。

```

[root@mail squirrelmail-1.4.8]# diff -wuN ./plugins/filters/
  filters.php /var/www/squirrelmail/plugins/filters/filters.php
2 --- ./plugins/filters/filters.php    2006-07-29 16:46:57.000000000
  +0800
3 +++ /var/www/squirrelmail/plugins/filters/filters.php
  2014-07-21 06:08:51.480883296 +0800
4 @@ -300,11 +300,12 @@
5
6     $category .= ' UNDELETED';
7
8 +     if (strstr($squirrelmail_language,'en') || strstr(
9 $squirrelmail_language,'zh')) {$filter_language='zh_TW'; } //
  dywang
10 -     if ($allow_charset_search &&
11 isset($languages[$squirrelmail_language]['CHARSET']) &&
12 -     $languages[$squirrelmail_language]['CHARSET']) {
13 +     isset($languages[$filter_language]['CHARSET']) && //
  dywang
14 +     $languages[$filter_language]['CHARSET']) {

```

```

14 |         $search_str = 'SEARCH CHARSET '
-   |             . strtoupper($languages[
    | $squirrelmail_language]['CHARSET'])
16 | +   |             . strtoupper($languages[$filter_language]['
    | CHARSET'])
    |             . ' ' . $category;
18 |     } else {
    |         $search_str = 'SEARCH CHARSET US-ASCII ' . $category;

```

## 5.5 setup.php

1. 郵件過濾不使用垃圾郵件過濾器外掛套件，因伺服器已自行訂定過濾機制。

```

1 | [root@mail squirrelmail-1.4.8]# diff -wuN ./plugins/filters/setup
    | .php /var/www/squirrelmail/plugins/filters/setup.php
    | --- ./plugins/filters/setup.php 2006-02-04 06:27:52.000000000
    | +0800
3 | +++ /var/www/squirrelmail/plugins/filters/setup.php 2006-12-31
    | 08:18:15.000000000 +0800
    | @@ -47,7 +47,7 @@
5 | * @global bool $AllowSpamFilters
    | */
7 | global $AllowSpamFilters;
    | -$AllowSpamFilters = true;
9 | +$AllowSpamFilters = false;
11 | /**
    | * SpamFilters YourHop Setting

```

## 5.6 sqspell\_interface.php

1. 變更設定檔的位置。

```

2 | [root@mail squirrelmail-1.4.8]# diff -wuN ./plugins/squirrelspell
    | /sqspell_interface.php /var/www/squirrelmail/plugins/
    | squirrelspell/sqspell_interface.php
    | --- ./plugins/squirrelspell/sqspell_interface.php 2006-08-09
    | 15:07:20.000000000 +0800
    | +++ /var/www/squirrelmail/plugins/squirrelspell/sqspell_interface
    | .php 2006-12-31 08:18:14.000000000 +0800
4 | @@ -34,7 +34,7 @@
    | $SQSPELL_DIR='plugins/squirrelspell/';
6 | $SQSPELL_CRYPTO=FALSE;

```



```
8 | -require_once(SM_PATH . $SQSPELL_DIR . 'sqspell_config.php');  
9 | +require_once('/etc/squirrelmail/plugins/sqspell_config.php');  
10 | require_once(SM_PATH . $SQSPELL_DIR . 'sqspell_functions.php');  
12 | /**
```

## 5.7 sqspell\_options.php

1. 變更設定檔的位置。

```
[root@mail squirrelmail-1.4.8]# diff -wuN ./plugins/squirrelspell  
/sqspell_options.php /var/www/squirrelmail/plugins/  
squirrelspell/sqspell_options.php  
2 --- ./plugins/squirrelspell/sqspell_options.php 2006-08-09  
15:07:21.000000000 +0800  
+++ /var/www/squirrelmail/plugins/squirrelspell/sqspell_options.  
php 2006-12-31 08:18:14.000000000 +0800  
4 @@ -32,7 +32,7 @@  
5 $SQSPELL_DIR='plugins/squirrelspell/';  
6 $SQSPELL_CRYPTO=FALSE;  
8 -require_once(SM_PATH . $SQSPELL_DIR . 'sqspell_config.php');  
9 +require_once('/etc/squirrelmail/plugins/sqspell_config.php');  
10 require_once(SM_PATH . $SQSPELL_DIR . 'sqspell_functions.php');  
12 /**
```



# Chapter 6

## 目錄 src

### 6.1 檔案比對

1. 先找出目錄 src 下有修改過的檔案。

```
[root@mail squirrelmail-1.4.8]# diff --ignore-all-space -qr . /
var/www/squirrelmail/ | egrep -v "(\\.png|locale:|decode:|help
:|\\.bak|Only.*plugins|tar.gz|hlp)" | sort | grep Files | sed '
s/Files\\ (.*)\\ and\\ (.*) differ/\\1 \\2/' | grep src
2 ./src/addressbook.php /var/www/squirrelmail/src/addressbook.php
./src/compose.php /var/www/squirrelmail/src/compose.php
4 ./src/configtest.php /var/www/squirrelmail/src/configtest.php
./src/empty_trash.php /var/www/squirrelmail/src/empty_trash.php
6 ./src/left_main.php /var/www/squirrelmail/src/left_main.php
./src/login.php /var/www/squirrelmail/src/login.php
8 ./src/printer_friendly_bottom.php /var/www/squirrelmail/src/
printer_friendly_bottom.php
./src/printer_friendly_main.php /var/www/squirrelmail/src/
printer_friendly_main.php
10 ./src/read_body.php /var/www/squirrelmail/src/read_body.php
./src/redirect.php /var/www/squirrelmail/src/redirect.php
12 ./src/right_main.php /var/www/squirrelmail/src/right_main.php
./src/view_header.php /var/www/squirrelmail/src/view_header.php
14 ./src/view_text.php /var/www/squirrelmail/src/view_text.php
./src/webmail.php /var/www/squirrelmail/src/webmail.php
```

### 6.2 addressbook.php

1. 編輯通訊錄，由修補程式補充由通訊錄加入。

```
1 | [root@mail src]# diff -wuN squirrelmail-1.4.8/src/addressbook.php
/var/www/squirrelmail/src/addressbook.php
```

```

--- squirrelmail-1.4.8/src/addressbook.php 2006-04-15
    06:27:08.000000000 +0800
3 +++ /var/www/squirrelmail/src/addressbook.php 2006-12-31
    08:18:15.000000000 +0800
@@ -361,10 +361,13 @@
5     $headerprinted = false;

7     echo html_tag( 'p', '<a href="#AddAddress">' . _("Add
        address") . '</a>', 'center' ) . "\n";
+ /*added by select_range patch*/
9 + do_hook('addressbook_before_list');

11 /* List addresses */
13     if (count($alist) > 0) {
+         echo addForm($form_url, 'post');
15 +         echo addForm($form_url, 'post', 'FormAddrAbook') . "\n";
+         while(list($undef,$row) = each($alist)) {

```

## 6.3 compose.php

1. 撰寫新郵件程式。

```

1 [root@mail squirrelmail-1.4.8]# diff -wuN ./src/compose.php /var/
  www/squirrelmail/src/compose.php
--- ./src/compose.php 2006-08-03 22:48:09.000000000 +0800
3 +++ /var/www/squirrelmail/src/compose.php 2014-07-21
    08:00:13.813566843 +0800

```

2. 修改自動簽名分隔符號。

```

1 @@ -529,7 +553,8 @@
    }
3     $signature = getSig($data_dir, $username, $no);
    }
5 - $body .= "\n\n".($prefix_sig==true? "-- \n":'').$signature;
+ $prefixsig = "+++++"; //dywang
7 + $body .= "\n\n".($prefix_sig==true? $prefixsig." \n" :'').
  $signature." \n".$prefixsig;
9     if ($compose_new_win == '1') {
        compose_Header($color, $mailbox);
    } else {

```

3. 修改郵件本文編碼，並刪除多餘空白行。

```

@@ -691,9 +716,12 @@
2         $actual = 'us-ascii';
3         }
4
5         -         if ( $actual && is_conversion_safe($actual) &&
6           $actual != $default_charset){
7           -         $bodypart = charset_convert($actual,$bodypart,
8             $default_charset,false);
9           -         }
10          +         $bodypart = utf8convert($bodypart,$actual); //
11          dywang
12          +         $bodypart = preg_replace("/(\r?\n)\1+/", "\1",
13            $bodypart); //dywang
14          +         $bodypart = preg_replace("/([\s]*<br>\n)+/", "<br>\n",
15            $bodypart); //dywang
16
17          $body .= $bodypart;

```

4. 在送出的郵件主題加入編號提示。

```

@@ -845,7 +874,9 @@
2         sqsession_register($compose_messages, 'compose_messages
3         ');
4         session_write_close();
5         sqimap_logout($imapConnection);
6         +         if(!stristr($subject,$default_charset)) $subject =
7           $default_charset . $subject; //dywang
8         }
9         $ret = array( 'send_to' => $send_to,
10         'send_to_cc' => $send_to_cc,
11         'send_to_bcc' => $send_to_bcc,

```

5. 修正附檔檔名編碼顯示的轉碼。

```

1 @@ -882,7 +913,8 @@
2         $filename = $message->getFilename();
3         break;
4         }
5         -         $filename = decodeHeader($filename, false, false);
6         +         $filename = decodeHeader($filename,false,false,true)
7         ; //dywang must debug
8         +         $filename = utf8convert($filename,'');
9         +         if (isset($languages[$squirrelmail_language]['
10           XTRA_CODE']) &&
11           function_exists($languages[
12           $squirrelmail_language]['XTRA_CODE'])) {

```

```
$filename = $languages[$squirrelmail_language
][XTRA_CODE]('encode', $filename);
```

6. 修改郵件簽名分隔符號。

```
@@ -958,6 +990,7 @@
2     $username, $compose_messages, $composesession,
      $default_charset,
      $javascript_on;
4
+   $prefixsig = "+++++++"; //dywang
6   if ($javascript_on)
      $onfocus = ' onfocus="alreadyFocused=true;";
8   else
```

7. 修正郵件傳送位址上的編碼。

```
@@ -973,9 +1006,9 @@
2     $body = $values['body'];
      $identity = (int) $values['identity'];
4     } else {
-     $send_to = decodeHeader($send_to, true, false);
6     $send_to_cc = decodeHeader($send_to_cc, true, false);
-     $send_to_bcc = decodeHeader($send_to_bcc, true, false);
8     +     $send_to = decodeHeader($send_to, true, false, true); //
      dywang
+     $send_to_cc = decodeHeader($send_to_cc, true, false, true
10    );
+     $send_to_bcc = decodeHeader($send_to_bcc, true, false,
      true);
12    }

    if ($use_javascript_addr_book) {
```

8. 修正郵件自動簽名顯示方式。

```
1 @@ -1132,18 +1167,18 @@
3
      if ($sig_first == '1') {
5     -     if ($default_charset == 'iso-2022-jp') {
          echo "\n\n".($prefix_sig==true? "-- \n":'').
      mb_convert_encoding($signature, 'EUC-JP');
+     +     echo "\n\n\n".($prefix_sig==true? $prefixsig."\n
          ":'').mb_convert_encoding($signature, 'EUC-JP')."
      $prefixsig;
```

```

7         } else {
-             echo "\n\n".($prefix_sig==true? "-- \n":'').
decodeHeader($signature,false,false,true);
9 +             echo "\n\n\n".($prefix_sig==true? $prefixsig."\n
":'').decodeHeader($signature,false,false,true)."\n".
$prefixsig;
        }
11         echo "\n\n".htmlspecialchars(decodeHeader($body,
false,false,true));
    }
13     else {
-         echo "\n\n".htmlspecialchars(decodeHeader($body,
false,false,true));
15 +         echo "\n\n\n".htmlspecialchars(decodeHeader($body,
false,false,true));
        if ($default_charset == 'iso-2022-jp') {
17 -             echo "\n\n".($prefix_sig==true? "-- \n":'').
mb_convert_encoding($signature, 'EUC-JP');
+             echo "\n".($prefix_sig==true? $prefixsig."\n
:').mb_convert_encoding($signature, 'EUC-JP')."\n".$prefixsig
;
19         }else{
-             echo "\n\n".($prefix_sig==true? "-- \n":'').
decodeHeader($signature,false,false,true);
21 +             echo "\n".($prefix_sig==true? $prefixsig."\n
:').decodeHeader($signature,false,false,true)."\n".$prefixsig
;
        }
23     }
} else {

```

### 9. 修正附件抬頭編碼顯示。

```

@@ -1213,7 +1248,8 @@
2         foreach ($composeMessage->entities as $key =>
$attachment) {
3             $attached_file = $attachment->att_local_name;
4             if ($attachment->att_local_name || $attachment->
body_part) {
-                 $attached_filename = decodeHeader(
$attachment->mime_header->getParameter('name'));
6 +                 $attached_filename = decodeHeader(
$attachment->mime_header->getParameter('name'),false,false,
true);//dywang
8                 $type = $attachment->mime_header->type0.'/'.
$attachment->mime_header->type1;

```

## 6.4 configtest.php

1. 修改設定檔位置在 /etc/squirrelmail/config.php 。

```

[root@mail squirrelmail-1.4.8]# diff -wuN ./src/configtest.php /
var/www/squirrelmail/src/configtest.php
2 --- ./src/configtest.php      2006-07-25 17:16:25.000000000 +0800
+++ /var/www/squirrelmail/src/configtest.php      2006-12-31
08:18:15.000000000 +0800
4 @@ -36,8 +36,8 @@
   * any html output starts. If config.php is missing, error will
   be displayed
6   * later.
   */
8 -if (file_exists(SM_PATH . 'config/config.php')) {
-   include(SM_PATH . 'config/config.php');
10 +if (file_exists('/etc/squirrelmail/config.php')) {
+   include('/etc/squirrelmail/config.php');
12   include(SM_PATH . 'functions/strings.php');
   }
14
@@ -62,7 +62,7 @@
16
   $included = array_map('basename', get_included_files() );
18 if(!in_array('config.php', $included)) {
-   if(!file_exists(SM_PATH . 'config/config.php')) {
20 +   if(!file_exists('/etc/squirrelmail/config.php')) {
       do_err('Config file '.SM_PATH . 'config/config.php does
       not exist!<br />'.
22         'You need to run <tt>conf.pl</tt> first.');
       }
24 @@ -78,7 +78,7 @@
   echo "<p><table>\n<tr><td>SquirrelMail version:</td><td><b>" .
     $version . "</b></td></tr>\n" .
26     '<tr><td>Config file version:</td><td><b>' .
       $config_version . "</b></td></tr>\n" .
       '<tr><td>Config file last modified:</td><td><b>' .
28 -     date ('d F Y H:i:s', filetime(SM_PATH . 'config/config
       .php')) .
+     date ('d F Y H:i:s', filetime('/etc/squirrelmail/
       config.php')) .
30     "</b></td></tr>\n</table>\n</p>\n\n";
32 echo "Checking PHP configuration...<br />\n";

```

## 6.5 empty\_trash.php

1. 清空垃圾桶中郵件程式，加入自訂的 Spam 目錄，也有清空的連結按鈕。



```

[root@mail squirrelmail-1.4.8]# diff -wuN ./src/empty_trash.php /
var/www/squirrelmail/src/empty_trash.php
2 --- ./src/empty_trash.php 2006-04-15 06:27:08.000000000 +0800
+++ /var/www/squirrelmail/src/empty_trash.php 2013-03-29
09:42:33.000000000 +0800
4 @@ -37,7 +37,8 @@

6  sqimap_mailbox_list($imap_stream);

8  -$mailbox = $trash_folder;
+//$mailbox = $trash_folder;
10 +$mailbox = $_GET['purge']; //dywang
    $boxes = sqimap_mailbox_list($imap_stream);
12
    /*
14 @@ -66,9 +67,8 @@
        addChildNodeToTree($boxes[$i]['unformatted'], $boxes[$i]
            ['unformatted-dm'], $foldersTree);
16     }
    }
18 -
    // now lets go through the tree and delete the folders
20 -walkTreeInPreOrderEmptyTrash(0, $imap_stream, $foldersTree);
+walkTreeInPreOrderEmptyTrash(0, $imap_stream, $foldersTree,
    $mailbox); //dywang
22  sqimap_logout($imap_stream);

24  // close session properly before redirecting

```

## 6.6 left\_main.php

1. 左側主頁程式，preg\_split 函式的 flag 為 PREG\_SPLIT\_NO\_EMPTY，不是 PREG\_SPLIT\_NO\_EMPTY，且不能用單引號括起來。

```

[root@mail squirrelmail-1.4.8]# diff -wuN ./src/left_main.php /
var/www/squirrelmail/src/left_main.php
2 --- ./src/left_main.php 2006-04-15 06:27:08.000000000 +0800
+++ /var/www/squirrelmail/src/left_main.php 2013-05-23
16:39:03.000000000 +0800

```

2. 讓其他目錄中有未讀郵件，也如收件匣一樣，可以顯示未讀郵件筆數提醒。

```

1 @@ -48,8 +48,8 @@
    }

```

```

3     $unseen = 0;
     $status = array('', '');
5 -   if (($unseen_notify == 2 && $real_box == 'INBOX') ||
     $unseen_notify == 3) {
7 +   if ($unseen_notify == 2 || $unseen_notify == 3) {
         $tmp_status = create_unseen_string($real_box,
         $box_array, $imapConnection, $unseen_type );
9     if ($status != false) {
         $status = $tmp_status;

```

3. 讓其他目錄中有未讀郵件，也如收件匣一樣，可以顯示未讀郵件筆數提醒，上述的做法是錯的。變數 \$unseen\_notify 取得的預設值由設定 /etc/squirrelmail/config.php 取得，其定義可以由預設設定檔查到：1 代表都不顯示；2 代表只有 INBOX 目錄；3 代表全部目錄都顯示，因此只要修改設定檔即可。

```

[root@mail ~]# grep default_unseen_notify -C3 /etc/squirrelmail/
config_default.php
2 /**
   * These next two options set the defaults for the way that the
4   * users see their folder list.
   * $default_unseen_notify
6   *     Specifies whether or not the users will see the number
     of
   *     unseen in each folder by default and also which folders
     to
8   *     do this to. Valid values are: 1=none, 2=inbox, 3=all.
   * $default_unseen_type
10  *     Specifies the type of notification to give the users by
     default. Valid choice are: 1=(4), 2=(4,25).
12  * @global integer $default_unseen_notify
   * @global integer $default_unseen_type
14  */
   $default_unseen_notify = 2;
16  $default_unseen_type   = 1;
18 /**

```

4. 修改 squirrelmail 設定檔 /etc/squirrelmail/config.php 的 \$default\_unseen\_notify = 3 即可讓所有目錄都顯示未讀郵件數量。

```

[root@mail ~]# vim /etc/squirrelmail/config.php
2 [root@mail ~]# grep default_unseen_notify /etc/squirrelmail/
config.php
   $default_unseen_notify           = 3;

```



```

9 require_once(SM_PATH . 'functions/plugin.php');
  require_once(SM_PATH . 'functions/constants.php');

```

3. 在登入主頁中加入「朝陽資工 CSIE CYUT WebMail」，且字型由 "small" 改為 "normal"。

```

1 @@ -143,8 +143,8 @@
   ' /><br />' . "\n"
3   : '' ).
   ( (isset($hide_sm_attributions) &&
     $hide_sm_attributions) ? '' :
5 -   '<small>' . sprintf (_("SquirrelMail version %s"),
   $version) . '<br />' . "\n".
   ' ' . _("By the SquirrelMail Project Team") . '<br
   /></small>' . "\n" ) .
7 +   '<normal>' . sprintf (_("SquirrelMail version %s"),
   $version) . '<br />' . "\n".
   +   ' ' . _("By the SquirrelMail Project Team") . '<br
   />' . _("朝陽資
   工 CSIE CYUT WebMail") . '<br /></normal>' . "\n" ) .
9   html_tag( 'table',
   html_tag( 'tr',
11  html_tag( 'td',

```

4. 帳密輸入寬度由 100% 改為 90%。

```

1 @@ -172,11 +172,11 @@
   'left', '', 'width="*"')
3   ),
   -   'center', $color[4], 'border="0" width="
   100%"') ,
5 +   'center', $color[4], 'border="0" width="
   90%"') ,
   'left', $color[4] )
7   ) .
   html_tag( 'tr',

```

5. 登入頁面最下方加入系統維護的連結。

```

2 @@ -189,5 +189,8 @@
   echo '</form>' . "\n";
4   do_hook('login_bottom');
   +echo '<center>

```

```

6 | +<center><a href="http://dywang.csie.cyut.edu.tw" target="blank"
  |   >
  | +<p><a style="text-decoration:none" href="http://dywang.csie.cyut
  |   .edu.tw"系統維護：資工王德
  |   譽> De-Yu Wang</a></center>';
8 | ?>
  | </body></html>

```

## 6.8 printer\_friendly\_bottom.php

1. "View Printable Version" 頁尾列印程式。

```

1 | [root@mail squirrelmail-1.4.8]# diff -wuN ./src/
  | printer_friendly_bottom.php /var/www/squirrelmail/src/
  | printer_friendly_bottom.php
  | --- ./src/printer_friendly_bottom.php    2006-04-15
  |     06:27:08.000000000 +0800
3 | +++ /var/www/squirrelmail/src/printer_friendly_bottom.php
  |     2012-05-03 08:08:57.000000000 +0800

```

2. 刪除多餘的空白行及空白。

```

1 | @@ -141,6 +141,8 @@
  |     );
3 |     }
  |     /* body */
5 | + $body = preg_replace("/(\r?\n)\1+/", "\\1", $body); //dywang
  | + $body = preg_replace("/([\s]*<br>\n)+/", "<br>\n", $body); //
  | dywang
7 |     echo html_tag( 'tr',
  |         html_tag( 'td', '<hr noshade size="1" /><br />' . "\n"
  |             . $body, 'left', '', 'colspan="2"' )
9 |         ) . "\n";

```

## 6.9 printer\_friendly\_main.php

1. "View Printable Version" 頁首列印程式。

```

1 | [root@mail squirrelmail-1.4.8]# diff -wuN ./src/
   | printer_friendly_main.php /var/www/squirrelmail/src/
   | printer_friendly_main.php
--- | ./src/printer_friendly_main.php 2006-04-15 06:27:08.000000000
   | +0800
3 | +++ /var/www/squirrelmail/src/printer_friendly_main.php
   | 2012-04-30 15:45:52.000000000 +0800

```

2. "View Printable Version" 時頁首空間減小，由 60 改為 40。

```

1 | @@ -30,7 +30,7 @@
   |     $view_unsafe_images = (bool) $_GET['view_unsafe_images'];
3 | /* end globals */
   |     displayHtmlHeader( _("Printer Friendly"), '', false, true );
5 | -     echo '<frameset rows="60, *">' . "\n";
   | +     echo '<frameset rows="40, *">' . "\n"; //dywang
7 |     echo '<frame src="printer_friendly_top.php" name="top_frame"
   |         ,
   |         . 'scrolling="no" noresize="noresize" frameborder="0"
   |         />' . "\n";
9 |     echo '<frame src="printer_friendly_bottom.php?passed_ent_id
   |         ='

```

## 6.10 read\_body.php

1. 讀取郵件本文程式。

```

1 | [root@mail squirrelmail-1.4.8]# diff -wuN ./src/read_body.php /
   | var/www/squirrelmail/src/read_body.php
--- | ./src/read_body.php 2006-08-01 13:47:32.000000000 +0800
3 | +++ /var/www/squirrelmail/src/read_body.php 2014-02-12
   | 17:09:17.655390410 +0800

```

2. 修改收信者編碼解碼參數。

```

1 | @@ -227,7 +227,7 @@
   |     $now = getLongDateString( time() );
3 |     set_my_charset();
   |     $body = _("Your message") . "\r\n\r\n" .
5 | -         "\t" . _("To") . ': ' . decodeHeader($to,false,false
   | ,true) . "\r\n" .
   | +         "\t" . _("To") . ': ' . decodeHeader($to,false,true,
   | true) . "\r\n" . //dywang

```

```

7 |         "\t" . _("Subject") . ': ' . decodeHeader($header->
      subject,false,false,true) . "\r\n" .
9 |         "\t" . _("Sent") . ': ' . $senton . "\r\n" .
      "\r\n" .

```

3. 修改增加收信者編碼解碼參數。

```

1 | @@ -385,7 +385,7 @@
3 |         $cnt = count($recipients);
      foreach($recipients as $r) {
5 | -         $add = decodeHeader($r->getAddress(true));
      +         $add = decodeHeader($r->getAddress(true),false,true,
4 | true); //dywang
7 |         if ($string) {
      $string .= '<br />' . $add;
9 |     } else {

```

4. 修改郵件主題編碼解碼參數。

```

1 | @@ -413,7 +413,7 @@
3 |         $header = $message->rfc822_header;
      $env = array();
5 | -         $env[ _("Subject")] = decodeHeader($header->subject);
      +         $env[ _("Subject")] = decodeHeader($header->subject,false,
4 | false,true); //dywang
7 |         $from_name = $header->getAddr_s('from');
      if (!$from_name) {
9 |             $from_name = $header->getAddr_s('sender');

```

5. 修改來信者編碼解碼參數。

```

1 | @@ -421,7 +421,7 @@
      $from_name = _("Unknown sender");
3 |     }
      }
5 | -         $env[ _("From")] = decodeHeader($from_name);
      +         $env[ _("From")] = decodeHeader($from_name,false,true,true);
4 | //dywang
7 |         $env[ _("Date")] = getLongDateString($header->date);
      $env[ _("To")] = formatRecipientString($header->to, "to");
9 |         $env[ _("Cc")] = formatRecipientString($header->cc, "cc");

```

## 6. 修改寄信者編碼解碼參數。

```

1 @@ -430,7 +430,7 @@
      $env["_("Priority)"] = htmlspecialchars(getPriorityStr(
          $header->priority));
3     }
      if ($show_xmailer_default) {
5 -     $env["_("Mailer)"] = decodeHeader($header->xmailer);
+     $env["_("Mailer)"] = decodeHeader($header->xmailer,false,
false,true);
7     }
      if ($default_use_mdn) {
9         if ($mdn_user_support) {

```

## 7. 刪除郵件本文中多餘的空白行及空白。

```

1 @@ -817,6 +817,12 @@
      }
3  }

5 +$messagebody = preg_replace("/(\r?\n)\1+/", "\1", $messagebody);
//dywang
+$messagebody = preg_replace("/([\s]*<br>\n)+/", "<br>\n",
$messagebody); //dywang
7 displayPageHeader($color, $mailbox);
formatMenuBar($mailbox, $passed_id, $passed_ent_id, $message,
$mbx_response);
9 formatEnvheader($mailbox, $passed_id, $passed_ent_id, $message,
$color, $FirstTimeSee);

```

## 8. 加入郵件本文自動換行顯示功能，並設定顯示寬度。

```

1 @@ -824,11 +830,11 @@
      echo ' <tr><td>';
3      echo ' <table width="100%" cellpadding="1" cellspacing="0"
align="center" border="0" bgcolor="'. $color[9]. '>';
      echo ' <tr><td>';
5 -echo ' <table width="100%" cellpadding="3" cellspacing="0"
" align="center" border="0">';
-echo ' <tr bgcolor="'. $color[4]. '><td>';
7 +echo ' <table width="100%" style="word-break:break-all"
cellpadding="3" cellspacing="0" align="center" border="0">';
+echo ' <tr bgcolor="'. $color[4]. '><td>'; //dywang
style="word-break:break-all"
9 // echo ' <table cellpadding="1" cellspacing="5"
align="left" border="0">';

```



```

    echo html_tag( 'table' ,'' , 'left', '', 'cellpadding="1"
      cellspacing="5" border="0" ' );
11 -echo '          <tr>' . html_tag( 'td', '<br />'.
      $messagebody."\\n", 'left')
+echo '          <tr>' . html_tag( 'td', '<br />'.
      $messagebody."\\n", 'left', '', 'width=1080') //dywang
13          . '</tr>';
    echo '          </table>';
15    echo '          </td></tr>';

```

## 6.11 redirect.php

1. 重新導向程式。

```

1 [root@mail squirrelmail-1.4.8]# diff -wuN ./src/redirect.php /var
  /www/squirrelmail/src/redirect.php
--- ./src/redirect.php  2006-08-03 23:13:36.000000000 +0800
3 +++ /var/www/squirrelmail/src/redirect.php  2012-05-06
   16:00:49.000000000 +0800

```

2. 修改設定檔位置在 /etc/squirrelmail/config.php。

```

1 @@ -21,7 +21,7 @@
   require_once(SM_PATH . 'functions/global.php');
3   require_once(SM_PATH . 'functions/i18n.php');
   require_once(SM_PATH . 'functions/strings.php');
5 -require_once(SM_PATH . 'config/config.php');
+require_once('/etc/squirrelmail/config.php');
7   require_once(SM_PATH . 'functions/prefs.php');
   require_once(SM_PATH . 'functions/imap.php');
9   require_once(SM_PATH . 'functions/plugin.php');

```

## 6.12 right\_main.php

1. 主頁面右側顯示程式。

```

1 [root@mail squirrelmail-1.4.8]# diff -wuN ./src/right_main.php /
  var/www/squirrelmail/src/right_main.php
--- ./src/right_main.php  2006-06-02 10:52:15.000000000 +0800
3 +++ /var/www/squirrelmail/src/right_main.php  2014-05-12
   07:45:14.779911272 +0800

```

2. 郵件顯示由預設每頁 15 封，改成 25 封。

```

1 @@ -102,8 +102,8 @@
   }
3
   if (!isset($show_num) || empty($show_num) || ($show_num == 0)) {
5 -     setPref($data_dir, $username, 'show_num' , 15);
   -     $show_num = 15;
7 +     setPref($data_dir, $username, 'show_num' , 25);
   +     $show_num = 25;
9   }
11  if (isset($newsort) && $newsort != $sort) {

```

3. session 先進行 url 編碼。

```

1 @@ -154,7 +154,7 @@
3   if ($composenew) {
       $comp_uri = SM_PATH . 'src/compose.php?mailbox=' . urlencode(
5 -         $mailbox).
   +         "&session=$session";
7   displayPageHeader($color, $mailbox, "comp_in_new('$comp_uri
   ');", false);
9   } else {
       displayPageHeader($color, $mailbox);

```

## 6.13 view\_header.php

1. 顯示郵件 header 的程式。

```

1 [root@mail squirrelmail-1.4.8]# diff -wuN ./src/view_header.php /
   var/www/squirrelmail/src/view_header.php
--- ./src/view_header.php    2006-04-15 06:27:08.000000000 +0800
3 +++ /var/www/squirrelmail/src/view_header.php    2014-01-10
   09:42:13.964712454 +0800

```

2. 修改郵件 header 顯示時編碼解碼參數。

```

1 @@ -44,6 +45,7 @@
3     for ($i=1; $i < count($read); $i++) {
4         $line = htmlspecialchars($read[$i]);
5 +     $line = decodeHeader($line, true,false,true); //dywang
6         switch (true) {
7             case (eregi("&gt;", $line)):
8                 $second[$i] = $line;

```

## 6.14 view\_text.php

1. 顯示頁面主框文字的程式。

```

[root@mail squirrelmail-1.4.8]# diff -wuN ./src/view_text.php /
var/www/squirrelmail/src/view_text.php
2 --- ./src/view_text.php 2006-04-15 06:27:08.000000000 +0800
+++ /var/www/squirrelmail/src/view_text.php 2014-07-21
09:55:25.425072644 +0800

```

2. 主框文字顯示再經過解碼函式解碼。

```

1 @@ -80,7 +80,8 @@
2     if (! empty($charset))
3         $body = charset_decode($charset,$body,false,true);
4     } else {
5         translateText($body, $wrap_at, $charset);
6 +     $body=decodeHeader($body,false,false,true);
7     }
8
9     displayPageHeader($color, 'None');

```

## 6.15 webmail.php

1. webmail 主程式。

```

1 [root@mail squirrelmail-1.4.8]# diff -wuN ./src/webmail.php /var/
www/squirrelmail/src/webmail.php
2 --- ./src/webmail.php 2006-08-03 22:48:09.000000000 +0800
3 +++ /var/www/squirrelmail/src/webmail.php 2013-05-23
14:29:04.000000000 +0800

```

2. 修改設定檔位置在 /etc/squirrelmail/config.php °

```
1 @@ -22,7 +22,7 @@
   /* SquirrelMail required files. */
3  require_once(SM_PATH . 'functions/global.php');
   require_once(SM_PATH . 'functions/strings.php');
5 -require_once(SM_PATH . 'config/config.php');
+require_once('/etc/squirrelmail/config.php');
7  require_once(SM_PATH . 'functions/prefs.php');
   require_once(SM_PATH . 'functions/imap.php');
9  require_once(SM_PATH . 'functions/plugin.php');
```

# Chapter 7

## 自訂佈景主題

### 7.1 檔案比對

1. 先找出佈景主題有新增或變動的檔案。

```
1 [root@mail squirrelmail-1.4.8]# diff --ignore-all-space -qr . /
   var/www/squirrelmail/ | sort | grep theme
Only in ./themes/css: index.php
3 Only in ./themes: README.themes
Only in /var/www/squirrelmail/themes/css: dywang.css
5 Only in /var/www/squirrelmail/themes: dywang_theme.php
```

### 7.2 新增佈景主題

1. 將設計好的 CSS 檔複製到 themes 目錄下。

```
1 [root@mail squirrelmail-1.4.8]# cp ../dywang.css /var/www/
   squirrelmail/themes/
```

2. 從其他佈景主題複製 php 檔。

```
1 [root@mail squirrelmail-1.4.8]# cd /var/www/squirrelmail/themes/
   [root@mail themes]# cp default_theme.php dywang_theme.php
```

3. 修改 dywang\_theme.php。

```
2 [root@mail themes]# cat dywang_theme.php
   <?php
```

```

4  /**
   * April 25, 2012
6  * Theme Name:   'DE-Yu Wang Theme'
   * This is the deyuwang theme that comes standard with
     SquirrelMail.
8  * Most of the colors were taken from mail.yahoo.com's theme on
     their
   * site.
10 *
   * To create a new theme, just copy this file, and edit the
     colors.
12 * Be sure to rename the file and keep the original, just in case
     .
   *
14 * @author De-Yu Wang
   * @copyright &copy; 2000-2006 The SquirrelMail Project Team
16 * @license http://opensource.org/licenses/gpl-license.php GNU
     Public License
   * @version $Id: dywang_theme.php,v 1.6.2.3 2006/07/16 18:10:56
     kink Exp $
18 * @package squirrelmail
   * @subpackage themes
20 **/

22     global $color;
   $color[0] = '#E0E0E0'; // (light gray)      TitleBar
24     $color[1] = '#800000'; // (red)
   $color[2] = '#cc0000'; // (light red)      Warning/Error
     Messages
26     $color[3] = '#D9E0DC'; // (green-blue)   Left Bar
     Background
   $color[4] = '#D9E0DC'; // (white)          Normal
     Background
28     $color[5] = '#COD0C7'; // (light yellow)  Table Headers
   $color[6] = '#000000'; // (black)          Text on left bar
30     $color[7] = '#26634C'; // (blue)         Links
   $color[8] = '#000000'; // (black)          Normal text
32     //$color[9] = '#7E9791'; // (mid-gray)    Darker version
     of #0
   $color[9] = '#A2C3B6'; // (mid-gray)       Darker version
     of #0
34     $color[10] = '#666666'; // (dark gray)   Darker version
     of #9
   $color[11] = '#770000'; // (dark red)      Special Folders
     color
36     $color[12] = '#ededed'; // (light gray)   Alternate color
     for message list
   $color[13] = '#800000'; // (dark red)      Color for quoted
     text -- > 1 quote

```

```
38 | $color[14] = '#ff0000'; // (red)           Color for quoted  
    |     text -- >> 2 or more  
    | $color[15] = '#002266'; // (dark blue)   Unselectable  
    |     folders  
40 | $color[16] = '#ff9933'; // (orange)      Highlight color  
    | ?>
```

4. 從 Squirrelmail 選項中設定自訂的佈景主題。







# Chapter 8

## 更新版本

### 8.1 版本說明

1. squirrelmail 1.4.8 只適用 php 5.3。
2. squirrelmail 1.4.22 只適用 php 5.4，但安裝後執行錯誤，必須除錯。

### 8.2 hex2bin

1. 查紀錄出現以下錯誤：

```
1 [Mon Mar 07 09:20:26 2016] [error] [client 36.232.158.80] PHP
   Fatal error:
   Cannot redeclare hex2bin() in
3 /usr/share/squirrelmail/plugins/mail_fetch/functions.php on line
   104
```

2. 解決方式：將函數名稱 hex2bin 改為 convertHex2bin。

```
1 [root@mail www]# diff -uN
squirrelmail-1.4.22.bak/plugins/mail_fetch/functions.php
3 squirrelmail-1.4.22/plugins/mail_fetch/functions.php
--- squirrelmail-1.4.22.bak/plugins/mail_fetch/functions.php
    2011-01-06
5 10:44:03.000000000 +0800
+++ squirrelmail-1.4.22/plugins/mail_fetch/functions.php
    2016-03-07
7 08:37:08.136952950 +0800
@@ -92,7 +92,8 @@
9     return '';
   }
11 -function hex2bin( $data ) {
```

```
13 +function hex2bin( $data ) {
+function convertHex2bin( $data ) {
15     /* Original code by josh@superfork.com */
17     $len = strlen($data);
@@ -136,7 +137,8 @@
19 }
21 function decrypt( $txt ) {
-     $txt = mf_keyED( hex2bin( $txt ) );
23 +     #$txt = mf_keyED( hex2bin( $txt ) );
+     $txt = mf_keyED( convertHex2bin( $txt ) );
25     $tmp = '';
     for ( $i=0; $i < strlen( $txt ); $i++ ) {
27         $md5 = substr( $txt, $i, 1 );
```

## 8.3 部分信件中文寄信者及主題不見

### 1. 解決方式：

```
1 [root@mail www]# diff -uN squirrelmail-1.4.22.bak/functions/i18n.
php
squirrelmail-1.4.22/functions/i18n.php
3 --- squirrelmail-1.4.22.bak/functions/i18n.php 2016-02-03
07:18:56.669214182
+0800
5 +++ squirrelmail-1.4.22/functions/i18n.php 2016-03-07
09:26:33.658620852
+0800
7 @@ -184,7 +184,8 @@
    }
9
    /* All HTML special characters are 7 bit and can be replaced
first */
11 -     if (! $save_html) $string = htmlspecialchars ( $string );
+     #if (! $save_html) $string = htmlspecialchars ( $string );
13 +     if (! $save_html) $string = htmlspecialchars ( $string,
ENT_COMPAT,
'ISO-8859-1');
15     $charset = strtolower($charset);
17     set_my_charset();
```

# Chapter 9

## 其他

### 9.1 漏字

1. 當編碼判斷錯誤或找不到字型時，若啓用 lossy encoding 有可能造成螢幕顯示問題。

```
1 [root@mail squirrelmail-1.4.22]# grep loss config/config.php
   $lossy_encoding          = false;
```

### 9.2 Firefox Crash

1. Firefox 38 同時開多個網頁，切換到 squirrelmail 有時 firefox 關閉，將 squirrelmail 每頁顯示信件數由 25 改回 15，可大大降低發生的機率，但尚未完全解決問題。