

Exercise 4.1: Test Web App Selection and Test Features

PsycHo: <http://psyc.horm.org>

We chose to test the Psycho web application which a simple blog template creator/designer written using JS/DHTML.

We designed the test cases and structured the test classes following the features of the website and made the test methods descriptions as easy to understand as possible e.g: BasicSettings.testEditImageUrl, BasicSetings.testChangeTitle. In some scenarios we used human readable options in the test suite e.g during color selection, we used color picker by standard name so that a color “red” is seen in test case code as opposed to entering the hexadecimal RGB representation in the text box. Test cases were chosen to cover all main page functionalities across each section by picking most relevant functions for testing in different settings sections were applicable. We planned to test all basic functionalities in all sections of the Pscho website i.e: Basic settings, Header settings, Column settings, RsideSchema settings, RsideTheme setings, Post Settings, LsideSchema settings, and LsideTheme settings.

In total, there are about 46 JUnit automated GUI test methods with ≥ 46 test cases (due to few cases with more than one assertions in the test method).

Further details on the test suite and website features covered are outlined in the next section.

Exercise 4.2: Test Quality

First, to ensure an optimal test suite design and quality we refactored test cases code base according to the Page Object architecture.

All HTML components were represented as Model Page Objects. For example, each blog setting section such as Basic settings, header settings, column settings etc. were represented or modelled as Java object classes. Then, all common page elements along with their corresponding attributes and actions were designed to be handled in these model classes. We have a “Blog” parent model class that houses all the common functions across all model classes e.g: setText (sets text string on all kinds of text boxes), setColor (sets color on all kinds of color pickers) etc. Please take a look at resulting java classes in automated test suite for further details.

Here's a brief Type hierarchy example below for further clarity:

Blog > Basic (model)
TestCase > BaseTest > BasicSettingsTest (JUnit TestCase)

Blog > Column (model)
TestCase > BaseTest > ColumnSettingsTest (JUnit TestCase)

Exercise 4.3: Measure client-side coverage

We used Google Script-Cover as our Javascript code coverage tool. It has the best ease of use and some other perks like displaying keeping a history of coverage results that most other tools like JSCover and Instabul don't have.

Google script-cover is a Chrome extension JS coverage tool that instruments Javascript code for test code coverage and analysis. It reports which Javascript statements/instructions from internal and external scripts have been executed (and how many times) while a web page loads and when the automated test suite interacts with the page without any user modifications to the test code.

Note: Because the tool instruments Javascript code, it's recommended that it is enabled when you want to get Javascript coverage statistics. You may want to deactivate the extension in all other cases.

Line coverage was used during this analysis as this is the only kind of coverage script-cover support currently. It reports a 3457 lines covered out of a total of 6025 lines. This is because we chose not to cover some functionalities like "helpNow.js" which is mainly documentation text on how to use the Blog template website. Also, due to the fact that we are not testing every permutation and combination of feature components in our test suite, we see that this is reflected in the coverage result. We accept that this doesn't necessarily mean our test suite lacks test quality since a 100% line coverage really doesn't equate to 100% test quality.

You can download it for use from here. <https://code.google.com/archive/p/script-cover/>
<http://googletesting.blogspot.ca/2011/10/scriptcover-makes-javascript-coverage.html>

To run the automated test suite, you would need to have the Chrome driver for Selenium running in the background and reference it in the BaseTest.java test class or as an argument of JVM -Dwebdriver.chrome.driver=/Users/2nday/Downloads/chromedriver.

To verify coverage reports for test please follow instructions for extension installation as outlined in links above. Ensure that JUnit automated tests have run in browser that has the Psycho website running. Uncomment the Driver.close line in Basetest.java so that you can view the coverage report for each test run in detail on the fly. The screenshots below display the coverage results report from Chome via script-cover.

How can test design be improved?

This has not much to do with test quality but with test case design. Currently, each test method instantiated its own Chrome browser for test runs which ensures test run isolation. This happens in the SetUp/TearDown (@Before/@After) function of the parent Basetest.java class. However, if time permitted, we would have liked to re-design test suite to use one Chrome instance per Test Class via the @BeforeClass and @AfterClass annotations.

The screenshot shows the JS PULSE coverage tool interface. At the top, it displays a summary: current 57.4% (6025 blocks tracked), last 57.4%. Below this is a configuration panel with sections for Psycho?, Psychopathed?, and Whole Page? settings. A main preview window shows the Psycho template generator interface with the title "Psycho" and subtitle "Your own psychogenesis, Your own template!". Below the preview is a code editor showing the Psycho template code. The bottom part of the interface is the Chrome developer tools' Elements tab, showing the DOM structure and styles applied to the Psycho template.

The screenshot shows the JS PULSE coverage tool interface. It displays a summary: total lines: 6025, executed: 3457 (57.4%). Below this is a URL field: Page URL: <http://psyc.horm.org/>. The main area shows the execution details: 3457/6025 (57.4%). At the bottom, there is a navigation bar with tabs: ScriptCover-1.0.0.2 (1...crx), ScriptCover-1.0.0.2 (1).crx, and ScriptCover-1.0.0.2.crx. A "Show All" button is located at the bottom right.

Summary: total lines: 6025, executed: 3457 (57.4%)Page URL: <http://psyc.horm.org/>

Line Number	Line Content	Execution Count	Percentage
1	Script http://psyc.horm.org/js/extra.js	809	15.26%
2	Script http://psyc.horm.org/js/kines.js	117	1.08%
3	Script http://psyc.horm.org/js/doDuty.js	1420	15.74%
4	Script http://psyc.horm.org/js/writer.js	490	4.92%
5	Script http://psyc.horm.org/js/helpNow.js	2	0.32%
6	Script http://psyc.horm.org/js/dcmin.js	11	1.45%
7	Script http://psyc.horm.org/js/translation.js	232	2.32%
8	Script http://psyc.horm.org/js/ecp.js	66	0.427%
9	Script http://psyc.horm.org/ (internal script)	1	100.0%
10	Script http://psyc.horm.org/ (internal script)	1	100.0%
11	Script http://psyc.horm.org/ (internal script)	1	100.0%
12	Script http://psyc.horm.org/ (internal script)	1	100.0%
13	Script http://psyc.horm.org/ (internal script)	1	100.0%
14	Script http://psyc.horm.org/ (internal script)	1	100.0%
15	Script http://psyc.horm.org/ (internal script)	1	100.0%
16	Script http://psyc.horm.org/ (internal script)	1	100.0%
17	Script http://psyc.horm.org/ (internal script)	1	100.0%
18	Script http://psyc.horm.org/ (internal script)	1	100.0%
19	Script http://psyc.horm.org/ (internal script)	1	100.0%
20	Script http://psyc.horm.org/ (internal script)	1	100.0%
21	Script http://psyc.horm.org/ (internal script)	1	100.0%
22	Script http://psyc.horm.org/ (internal script)	1	100.0%
23	Script http://psyc.horm.org/ (internal script)	1	100.0%
24	Script http://psyc.horm.org/ (internal script)	1	100.0%
25	Script http://psyc.horm.org/ (internal script)	1	100.0%
26	Script http://psyc.horm.org/ (internal script)	1	100.0%
27	Script http://psyc.horm.org/ (internal script)	1	100.0%
28	Script http://psyc.horm.org/ (internal script)	1	100.0%
29	Script http://psyc.horm.org/ (internal script)	1	100.0%
30	Script http://psyc.horm.org/ (internal script)	1	100.0%
31	Script http://psyc.horm.org/ (internal script)	1	100.0%
32	Script http://psyc.horm.org/ (internal script)	1	100.0%
33	Script http://psyc.horm.org/ (internal script)	1	100.0%
34	Script http://psyc.horm.org/ (internal script)	1	100.0%
35	Script http://psyc.horm.org/ (internal script)	1	100.0%
36	Script http://psyc.horm.org/ (internal script)	1	100.0%
37	Script http://psyc.horm.org/ (internal script)	1	100.0%
38	Script http://psyc.horm.org/ (internal script)	1	100.0%

Summary: total lines: 6025, executed: 3457 (57.4%)Page URL: <http://psyc.horm.org/>

```
3457/6025 (57.4%) 1: 1
var ECP_mouseIsDown = false;
var theColour = "#FF0000", tC_RGB = new Array(255, 0, 0), tC_HSV = new Array();
function deMoronize() {
    theColour = getFatherForECP(dg("CPwutProp").innerHTML, dg("CPwutColor"));
    SwitchDisplay("SuggestColor", theColour != "");
    if (theColour != "") {
        var n2r;
        if (n2r = name2rgb(theColour)) {
            theColour = n2r;
        }
        AnalyseColor(theColour, false);
    }
    var ua = navigator.userAgent.toLowerCase();
    var isIE = ua.indexOf("msie") != -1 && ua.indexOf("opera") == -1;
    var versionMinor = parseFloat(navigator.appVersion);
    if (!isIE && versionMinor >= 4) {
        versionMinor = parseFloat(ua.substring(ua.indexOf("msie ") + 5));
    }
    var isWin32 = ua.indexOf("win") != -1 && (ua.indexOf("95") != -1 || parseInt(versionMinor) >= 4);
    if (!isIE && versionMinor == 5.5 || parseInt(versionMinor) >= 4) {
        document.getElementById("wheel").innerHTML = '<a href="#Psyc>';
    }
    theColour = dg("ECP_myRGBS").value;
    tC_HSV = rgb2hsv(theColour);
    tC_RGB = hsv2rgb(tC_HSV);
    hoverColor();
    window.document.getElementById("wheel").onmousemove = mouseMoved;
    window.document.getElementById("wheel").onmousedown = mouseMoved;
}
function hsv2rgb(Hdeg, S, V) {
    if (Hdeg.length && Hdeg.length == 3) {
        V = Hdeg[2];
        S = Hdeg[1];
        Hdeg = Hdeg[0];
    }
    var H = Hdeg / 360;
    S /= 100;
    V /= 100;
```



Summary: total lines: 6025, executed: 3457 (57.4%)

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```
Script http://psyc.horm.org/js/extra.js
Script http://psyc.horm.org/js/kines.js
Script http://psyc.horm.org/js/doDuty.js
Script http://psyc.horm.org/js/writer.js
Script http://psyc.horm.org/js/helpNow.js
Script http://psyc.horm.org/s/domin.js
Script http://psyc.horm.org/s/translation.js
Script http://psyc.horm.org/s/ecp.js
Script http://psyc.horm.org/ (internal script)
Script http://bsvc.horm.org/ (internal script)
```

```
3457/6025 (57.4%) 1: 1
809/1526 (53.0%) 2: 1
117/1087 (10.8%) 3: 1
1420/1574 (90.2%) 4: 1
490/492 (99.6%) 5: 1
2/332 (0.6%) 7: 0
11/45 (24.4%) 9: 0
232/232 (100.0%) 10: 0
66/427 (15.5%) 11: 0
1/1 (100.0%) 12: 0
1/1 (100.0%) 13: 1
1/1 (100.0%) 14: 1
1/1 (100.0%) 15: 0
1/1 (100.0%) 16: 1
1/1 (100.0%) 17: 1
1/1 (100.0%) 18: 0
1/1 (100.0%) 19: 0
1/1 (100.0%) 20: 0
1/1 (100.0%) 21: 0
1/1 (100.0%) 22: 0
1/1 (100.0%) 23: 0
1/1 (100.0%) 24: 0
1/1 (100.0%) 25: 0
1/1 (100.0%) 26: 0
1/1 (100.0%) 27: 0
1/1 (100.0%) 28: 0
1/1 (100.0%) 29: 0
1/1 (100.0%) 30: 0
1/1 (100.0%) 31: 0
1/1 (100.0%) 32: 0
1/1 (100.0%) 33: 0
1/1 (100.0%) 34: 0
1/1 (100.0%) 35: 0
1/1 (100.0%) 36: 0
1/1 (100.0%) 37: 0
1/1 (100.0%) 38: n

var DaysToMonth = [ 0, 31, 62, 93, 124, 155, 186, 216, 246, 276, 306
var MonthNames = new Array("اپریل", "ماہینه", "جولائی", "اگسٹ", "سبتمبر", "کوئنٹی"
var WeekDayNames = new Array("یکمین", "دوسری", "سومین", "چوتھی", "پانچمین", "ششمین", "ہفتمین")
var MonthDayNames = new Array("یکمین", "دوسری", "سومین", "چوتھی", "پانچمین", "ششمین", "ہفتمین")
var PersianDigits = new Array("۰", "۱", "۲", "۳", "۴", "۵", "۶", "۷", "۸", "۹")
function PersianNumberString(num) {
    var ret = "";
    do {
        ret = PersianDigits[num % 10] + ret;
        num = Math.floor(num / 10);
    } while (num > 0);
    return ret;
}
function IsLeapYear(DateKind, Year) {
    return DateKind ? Year % 4 == 0 && (Year % 100 != 0 || Year % 400 == 0) : true;
}
function ToHijri(DateStr) {
    var SpDate = DateStr.split("/");
    if (SpDate.length < 3) {
        return "Date [" + DateStr + "] is not in MM/DD/YYYY format.";
    }
    var M = new Object, D = new Object, Y = new Object, Days, LeapDay;
    M.value = parseInt(SpDate[0]);
    D.value = parseInt(SpDate[1]);
    Y.value = parseInt(SpDate[2]);
    LeapDay = IsLeapYear(0, Y.value - 622);
    Days = DaysToMonth[1][M.value - 1] + D.value + (M.value > 2 && IsLeapYear(0, Y.value) ? 1 : 0);
    Y.value -= 622;
    M.value = 0;
    D.value = 0;
    if (Days > 365 + LeapDay) {
        Y.value++;
        Days -= 365 + LeapDay;
    }
    LeapDay = 0;
    for (var m = 1; m <= 12; m++) {
        LeapDay |= m == 13 && IsLeapYear(0, Y.value);
        if (Days <= DaysToMonth[m] + LeapDay) {
            break;
        }
    }
}
```

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```
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Script http://psyc.horm.org/s/domin.js
Script http://psyc.horm.org/s/translation.js
Script http://psyc.horm.org/s/ecp.js
Script http://psyc.horm.org/ (internal script)
Script http://bsvc.horm.org/ (internal script)
```

```
3457/6025 (57.4%) 284: 0
809/1526 (53.0%) 285: 0
286: 0
117/1087 (10.8%) 287: 0
1420/1574 (90.2%) 288: 0
490/492 (99.6%) 289: 0
2/332 (0.6%) 290: 0
11/45 (24.4%) 291: 0
232/232 (100.0%) 292: 0
66/427 (15.5%) 294: 0
1/1 (100.0%) 295: 0
1/1 (100.0%) 296: 0
1/1 (100.0%) 297: 0
1/1 (100.0%) 298: 0
1/1 (100.0%) 299: 0
1/1 (100.0%) 300: 0
1/1 (100.0%) 301: 0
1/1 (100.0%) 302: 0
1/1 (100.0%) 303: 0
1/1 (100.0%) 304: 0
1/1 (100.0%) 305: 0
1/1 (100.0%) 306: 0
1/1 (100.0%) 307: 0
1/1 (100.0%) 308: 0
1/1 (100.0%) 309: 0
1/1 (100.0%) 310: 0
1/1 (100.0%) 311: 0
1/1 (100.0%) 312: 0
1/1 (100.0%) 313: 0
1/1 (100.0%) 314: 0
1/1 (100.0%) 315: 0
1/1 (100.0%) 316: 0
1/1 (100.0%) 317: 0
1/1 (100.0%) 318: 0
1/1 (100.0%) 319: 0
1/1 (100.0%) 320: 0
1/1 (100.0%) 321: n

t = _tab + "... is the background of Comments and PermanentLinks";
case "post's global settings":
    t = _tab + "... is the global setting of the posts; the font and colors";
    break;
case "one post's border":
    t = _tab + "... is the border of each post. Can be omitted by removing the border attribute from the post element";
    break;
case "post vertical borders":
    t = _tab + "... is the top and bottom border of the Post body";
    break;
case "post vertical paddings":
    t = _tab + "... is the vertical (top and bottom) space of post body";
    break;
case "post horizontal paddings":
    t = _tab + "... is the horizontal (left and right) space of post body";
    break;
case "parts schema":
    t = _tab + "... is the place for schema setting of the parts";
    break;
case "parts schema":
    t = _tab + "... is the place for schema setting of the parts";
    break;
case "link surrounders":
    t = _tab + "... are actually and Prefix and a Postfix text to surround links";
    break;
case "links overall":
    t = _tab + "Actually a links is a piece of text that the visitor can click";
    break;
case "suggested colours":
    t = _tab + "... are the list of 24 colours suggested by Psych";
    break;
case "preview ecp color":
    t = _tab + "... is the color you have already selected from the color palette";
    break;
case "ecp rgb value":
    t = _tab + "... is the name of the color you have already selected from the color palette";
    break;
```

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Script http://psyc.horm.org/js/extrajs
 Script http://psyc.horm.org/js/kines.js
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 Script http://psyc.horm.org/js/helpNow.js
 Script http://psyc.horm.org/js/dcmin.js
Script http://psyc.horm.org/js/translation.js
 Script http://psyc.horm.org/ecp.js
 Script http://psyc.horm.org/ (internal script)
 Script http://osvc.horm.org/ (internal script)

```
3457/6025 (57.4%) 444: 138
809/1526 (53.0%) 445: 138
117/1087 (10.8%) 446: 1
1420/1574 (90.2%) 447: 1
490/492 (99.6%) 449: 1
2/332 (0.6%) 450: 1
11/45 (24.4%) 452: 1
232/232 (100.0%) 453: 6
66/427 (15.5%) 454: 6
1/1 (100.0%) 455: 138
1/1 (100.0%) 456: 1
1/1 (100.0%) 457: 6
1/1 (100.0%) 458: 6
1/1 (100.0%) 459: 1
1/1 (100.0%) 460: 1
1/1 (100.0%) 461: 1
1/1 (100.0%) 462: 1
1/1 (100.0%) 463: 24
1/1 (100.0%) 464: 24
1/1 (100.0%) 465: 24
1/1 (100.0%) 466: 24
1/1 (100.0%) 467: 24
1/1 (100.0%) 468: 24
1/1 (100.0%) 469: 24
1/1 (100.0%) 470: 24
1/1 (100.0%) 471: 24
1/1 (100.0%) 472: 1
1/1 (100.0%) 473: 1
1/1 (100.0%) 474: 6
1/1 (100.0%) 475: 0
1/1 (100.0%) 476: 6
1/1 (100.0%) 477: 6
1/1 (100.0%) 478: 6
1/1 (100.0%) 479: 36
1/1 (100.0%) 480: 6
1/1 (100.0%) 481: 36

document.writeln("</div>");  

document.writeln("</td>");  

function WriteColorsByName() {  

  var i, j, k, tempStr;  

  var ColNameList = new Array("transparent", "white", "whitesmoke",  

    "black", "darkblue", "darkred", "darkgreen", "darkcyan", "darkpurple",  

    "darkbrown", "darkgray", "lightgray", "lightbrown", "lightblue",  

    "lightgreen", "lightcyan", "lightpurple", "pink", "yellow", "orange",  

    "lightred", "lightyellow", "lightorange", "lightpink", "lightpurple");  

  var tdpercol = 23;  

  for (i = 0; i < 6; i++) {  

    document.write("<table cellpadding=0 cellspacing=0 style='width:100%'>");  

    for (j = 0; j < tdpercol; j++) {  

      WriteCellOfCPNamed(ColNameList[i * tdpercol + j]);  

      document.write("</tr><br>");  

    }  

    document.write("</tr></table></td><br>");  

  }  

  document.write("</td></tr></table>");  

}  
  

function w_ECPCellDiv(isfatheric, x, title) {  

  var prefix = isfatheric ? "F" : "C";  

  if (!title) {  

    title = "Color";  

  }  

  document.write('<div class="AnECPCell" ' + (x % 6 != 1 || x == 1  

    ? " style="background-color:' + ColNameList[(x - 1) % 23] + "'>');  

  document.write('<div title="' + id="ECP_" + prefix + "ColDiv" + x  

    + '>');  

  document.write('<a class="inputAVal" id="ECP_' + prefix + " " + Simple  

    .value="');  

  document.write('</div>');  

}  
  

function w_ECP_element(wut, txt) {  

  if (!txt) {  

    txt = wut;  

  }  

  var whichone, method = wut == "H" || wut == "S" || wut == "V" ?  

    "whole" : "char";  

  for (var i = 0; i < 6; i++) {  

    if (wut == whole.charAt(i)) {  

      whichone = i;  

    }
  }
}
```

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```
3457/6025 (57.4%) 1039:2260
809/1526 (53.0%) 1040:2260
117/1087 (10.8%) 1041:2260
1420/1574 (90.2%) 1042:2260
490/492 (99.6%) 1044:2260
2/332 (0.6%) 1045:2260
11/45 (24.4%) 1046:2260
232/232 (100.0%) 1047:2260
66/427 (15.5%) 1048:2260
1/1 (100.0%) 1050:2260
1/1 (100.0%) 1051:2260
1/1 (100.0%) 1052:12
1/1 (100.0%) 1053:2260
1/1 (100.0%) 1054:2260
1/1 (100.0%) 1055:2260
1/1 (100.0%) 1056:2260
1/1 (100.0%) 1057:12
1/1 (100.0%) 1058:2260
1/1 (100.0%) 1059:2260
1/1 (100.0%) 1060:2260
1/1 (100.0%) 1061:2260
1/1 (100.0%) 1062:1
1/1 (100.0%) 1063:2260
1/1 (100.0%) 1064:2260
1/1 (100.0%) 1065:2260
1/1 (100.0%) 1066:2260
1/1 (100.0%) 1067:1
1/1 (100.0%) 1068:2260
1/1 (100.0%) 1069:2260
1/1 (100.0%) 1070:2260
1/1 (100.0%) 1071:2260
1/1 (100.0%) 1072:0
1/1 (100.0%) 1073:2260
1/1 (100.0%) 1074:2260
1/1 (100.0%) 1075:2260
1/1 (100.0%) 1076:2260

dest.style.borderColor = val;  

break;  

case "backgroundColor":  

  dest.style.backgroundColor = val;  

break;  

case "color":  

  dest.style.color = val;  

break;  

case "visibility":  

  dest.style.visibility = val;  

break;  

case "paddingLeft":  

  try {  

    dest.style.paddingLeft = val;  

  } catch (e) {}  

break;  

case "paddingRight":  

  try {  

    dest.style.paddingRight = val;  

  } catch (e) {}  

break;  

case "paddingTop":  

  try {  

    dest.style.paddingTop = val;  

  } catch (e) {}  

break;  

case "paddingBottom":  

  try {  

    dest.style.paddingBottom = val;  

  } catch (e) {}  

break;  

case "marginLeft":  

  try {  

    dest.style.marginLeft = val;  

  } catch (e) {}  

break;  

case "marginRight":  

  try {  

    dest.style.marginRight = val;  

  } catch (e) {}  

break;
```

Summary: total lines: 6025, executed: 3457 (57.4%)

Page URL: <http://psyc.horm.org/>

```
Script http://psyc.horm.org/is/extra.js
Script http://psyc.horm.org/is/kines.js
Script http://psyc.horm.org/is/doDuty.js
Script http://psyc.horm.org/is/writer.js
Script http://psyc.horm.org/is/helpNow.js
Script http://psyc.horm.org/is/dcmin.js
Script http://psyc.horm.org/is/translation.js
Script http://psyc.horm.org/is/ecp.js
Script http://psyc.horm.org/ (internal script)
```

```
3457/6025 (57.4%) 1039:0
809/1526 (53.0%) 1040:0
117/1087 (10.8%) 1041:0
1420/1574 (90.2%) 1042:0
490/492 (99.6%) 1044:0
2/332 (0.6%) 1045:0
11/45 (24.4%) 1046:0
232/232 (100.0%) 1047:0
66/27 (15.5%) 1048:0
1/1 (100.0%) 1050:0
1/1 (100.0%) 1051:0
1/1 (100.0%) 1052:0
1/1 (100.0%) 1053:0
1/1 (100.0%) 1054:0
1/1 (100.0%) 1055:0
1/1 (100.0%) 1056:0
1/1 (100.0%) 1057:0
1/1 (100.0%) 1058:0
1/1 (100.0%) 1059:0
1/1 (100.0%) 1060:0
1/1 (100.0%) 1061:0
1/1 (100.0%) 1062:0
1/1 (100.0%) 1063:0
1/1 (100.0%) 1064:0
1/1 (100.0%) 1065:0
1/1 (100.0%) 1066:0
1/1 (100.0%) 1067:0
1/1 (100.0%) 1068:0
1/1 (100.0%) 1069:0
1/1 (100.0%) 1070:0
1/1 (100.0%) 1071:0
1/1 (100.0%) 1072:0
1/1 (100.0%) 1073:0
1/1 (100.0%) 1074:0
1/1 (100.0%) 1075:0
```

```
        TitleTxt = k_prov_blogtitle();
    }
    if (SubTitleTxt == "SDEFAULT") {
        SubTitleTxt = k_prov_blogdescription();
    }
    t += tab[3] + '<div class="Clearer"></div>' + endl;
    t += tab[3] + '<div id="HeaderTitle">' + endl;
    t += tab[4] + TitleTxt + endl;
    t += tab[3] + "</div>" + endl;
    if (SubTitleTxt.length) {
        t += tab[3] + '<div id="HeaderSubTitle">' + endl;
        t += tab[4] + SubTitleTxt + endl;
        t += tab[3] + "</div>" + endl;
    }
    t += tab[3] + '<div class="Clearer"></div>' + endl;
}
t += tab[2] + "</div></div>" + endl;
t += tab[2] + '<div id="MainAndsides">' + endl;
if (dgChecked("ColsNumberIsThree")) {
    t += k_ColVal("L");
}
t += k_MainColVal();
if (dgChecked("ColsNumberIsTwoR")) {
    t += k_ColVal("R");
}
if (dgChecked("ColsNumberIsTwoL") || dgChecked("ColsNumberIsThre
    t += k_ColVal("R");
}
t += tab[2] + '<div class="Clearer"></div>' + endl;
t += tab[2] + '<form name="MyPsychicForm" method="post" action="'
t += tab[3] + '<input name="Psychodrama" value=' + kinesoS
t += tab[2] + "</form>" + endl;
var userRights = 'Some rights of this page\'s plain text stuffs
var psychoRights = 'The <a target="_self" href="javascript: void
if (global.lang == "fa") {
    userRights = translateIt("rights for author");
    psychoRights = translateIt("rights for psycho");
}
psychoRights = translateIt("rights for psycho");
```

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```

```
3457/6025 (57.4%) 1102:2260
809/1526 (53.0%) 1103:2260
117/1087 (10.8%) 1104:2260
1420/1574 (90.2%) 1105:2260
490/492 (99.6%) 1107:2260
2/332 (0.6%) 1108:2260
11/45 (24.4%) 1109:2260
232/232 (100.0%) 1110:2260
66/27 (15.5%) 1111:10
1/1 (100.0%) 1112:10
1/1 (100.0%) 1113:2260
1/1 (100.0%) 1114:2260
1/1 (100.0%) 1115:2260
1/1 (100.0%) 1116:1
1/1 (100.0%) 1117:1
1/1 (100.0%) 1118:1
1/1 (100.0%) 1119:1
1/1 (100.0%) 1120:1
1/1 (100.0%) 1121:1
1/1 (100.0%) 1122:1
1/1 (100.0%) 1123:1
1/1 (100.0%) 1124:1
1/1 (100.0%) 1125:1
1/1 (100.0%) 1126:1
1/1 (100.0%) 1127:1
1/1 (100.0%) 1128:1
1/1 (100.0%) 1129:1
1/1 (100.0%) 1130:1
1/1 (100.0%) 1131:1
1/1 (100.0%) 1132:1
1/1 (100.0%) 1133:0
1/1 (100.0%) 1134:0
1/1 (100.0%) 1135:0
1/1 (100.0%) 1136:0
1/1 (100.0%) 1137:1
1/1 (100.0%) 1138:1
1/1 (100.0%) 1139:0
```

```
        break;
        case "left":
            dest.style.left = val;
            break;
        case "lineHeight":
            dest.style.lineHeight = val;
            break;
        case "height":
            try {
                dest.style.height = val;
            }
            catch (e) {}
            break;
        }
    }
    function ChangeHeaderDirection(who, wut) {
        ChangeByInput("HeaderPartText", "direction", wut);
        ChangeByInput("TitleTextTextEr", "direction", wut);
        ChangeByInput("SubTitleTextTextEr", "direction", wut);
        ChangeByInput("TitleText", "direction", wut);
        ChangeByInput("SubTitleText", "direction", wut);
        if (global.canWrite) {
            var dir = wut == "rtl" ? "right" : "left";
            var wh = wut == "rtl" ? "HeaderPartTextAlignErRight" : "HeaderPartTextAlignLeft";
            if (wh == "doDuty(who)") {
                ChangeByInput("TitleText", "textAlign", dir);
                ChangeByInput("SubTitleText", "textAlign", dir);
            }
        }
    }
    function fromUtf8toEntity(s) {
        return s.replace(/([\x00-\x7f])/g, function(s, c, ofs, all) {
            c = String(c);
            return "&" + c.charCodeAt(0) + ";";
        });
    }
    function ReadCookie(name) {
        var nameEQ = name + "=";
```

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Script http://psyc.horm.org/s/translation.js
Script http://psyc.horm.org/s/ecp.js
Script http://psyc.horm.org/(internal script)
Script http://osvc.horm.org/(internal script)

```
3457/6025 (57.4%) 1: 1
          2: 0
          3: 0
          4: 0
          5: 0
          6: 1
          7: 1
          8: 247
          9: 247
          10: 247
          11: 247
          12: 561
          13: 561
          14: 247
          15: 247
          16: 247
          17: 247
          18: 247
          19: 247
          20: 247
          21: 247
          22: 247
          23: 247
          24: 247
          25: 247
          26: 247
          27: 247
          28: 0
          29: 247
          30: 247
          31: 247
          32: 247
          33: 247
          34: 247
          35: 247
          36: 247
          37: 247
          38: 247

function kd_alert(s) {
    if (global_last_kd_alert != s) {
        alert("Sorry, your provider (" + global_prov + ") " + s);
    }
    global_last_kd_alert = s;
}

function foundSide(s, eve) {
    var sa = new Array();
    var t;
    var This = dg("." + s);
    while ((t = s.indexOf(".")) != -1) {
        sa[sa.length] = s.substring(0, t);
        s = s.substring(t + 1, s.length);
    }
    sa[sa.length] = s;
    sa[2] = parseInt(sa[2]);
    sa[3] = parseInt(sa[3]);
    var bs = BoxLength(sa[0]);
    var pre = "___" + sa[0] + "___";
    switch (sa[1]) {
        case "DefaultDivBackBacker":
            break;
        case "DefaultDivBackIsColorEr":
            SwitchDisplay(pre + "DefaultDivBackgroundIsTexture", 0);
            SwitchDisplay(pre + "DefaultDivBackgroundIsImage", 0);
            SwitchDisplay(pre + "DefaultDivsBackgroundIsColor", 1);
            for (var i = 0; i < maxBoxNumOnSides; i++) {
                ChangeByInput(sa[0] + "_DefaultDiv_" + i, "backgroundImage");
            }
            break;
        case "DefaultDivBackIsTextureEr":
            SwitchDisplay(pre + "DefaultDivsBackgroundIsColor", 0);
            SwitchDisplay(pre + "DefaultDivsBackgroundIsImage", 0);
            SwitchDisplay(pre + "DefaultDivsBackgroundIsTexture", 1, "in");
            doDuty(dg(pre + "DefaultDivBackTextureEr"));
            break;
        case "DefaultDivBackIsImageEr":
            SwitchDisplay(pre + "DefaultDivsBackgroundIsColor", 0);
            break;
    }
}
```