EXHIBIT G

JDX 274

PA-NAT-00000115

```
<!DOCTYPE hmml SYSTEM>
<HMML>
<GROUP>www</GROUP>
<TITLE>ViolaWWW Notes</TITLE>
<H1>ViolaWWW Alpha Release Notes</H1>
<P>
This is an alpha release of violaWWW. The primary intent of this
release is to provide a demo for the Design team to evaluate, to
provide user interface feedbacks, etc. The general look & feel is
expected to be <ITALIC>Motif'</ITALIC>ed soon.
<P>
<EMPH>As is</EMPH>, this browser has trouble working with the HTML
documents from the network, unless they have the necessary SGML document
type declaration. This problem is being dealt with. Meanwhile, you can
try out the documents listed below.

<H2>A few things to try out:</H2>
<P>
Under the rotating globe menu, the ViolaWWW ``about'' and ``help'' documents
are fairly good representative of HMML.
<P>
Under the <ITALIC>Local</ITALIC> bookmarks menu:
<DL>
<DT><A HREF="/home/wei/viola/docs/gnnElements.hmml">gnnElements.hmml</A>
<DD>A demo GNN header logo thingy.
<DT><A HREF="/home/wei/viola/docs/testAll.html">testAll.html</A>
<DD>Sample of HTML document.
<DT><A HREF="/home/wei/viola/docs/violaBrief.hmml">violaBrief.hmml</A>
<DD>A very long (too long) and <EMPH>drafty</EMPH> document on viola.
Has embedded GUIs.
<DT><A HREF="/home/wei/viola/inetRC/inetRC.hmmlb">InternetRC (all)</A>
<DD>An even longer document. Practically the whole InetRC catalog section.
<DT><A HREF="/home/wei/viola/gallery/collection.hmml">Art Gallery</A>
<DD>Was a demo for GIF, but the GIF code used in viola is broken...
So the pictures in it are now temporarily in XBM.
<DT><A HREF="/home/wei/viola/docs/violaChier.hmml">violaChier.hmml</A>
<DD>Shows a tree graph, with hot-link tree nodes.
<DT><A HREF="/home/wei/viola/apps/doodle.v">Doodle</A>
<DD>A doodling "program" as WWW "doc".
<DT><A HREF="/home/wei/viola/apps/vwq.v">Viola Survey</A>
<DD>Demos a fill-in/mail-out forms. Currently implemented as viola object,
but will be abstracted to be portable SGML, as in <CMD>&lt;ENTRY&gt</CMD>.
A related idea is the <A HREF="/home/wei/viola/apps/ORABKOrder.v">
ORA Book Order Demo</A>.
<DT><A HREF="/home/wei/viola/apps/wave.v">Wave</A>
<DD>Sine wave ploting as WWW doc. Just a GUI toy, but demonstrates WWW
as transport infrastructure not just for static documents.
<DT><A HREF="/home/wei/viola/apps/clock.v">Clock</A>
<DD>A real working time telling clock as WWW ``doc''.
<DT><A HREF="/home/wei/viola/docs/testPlot.hmml">testPlot.hmml</A>
<DD>Demos a highly cool wire-frame ploting widget embeded in a document.
<EMPH>If you try this, you must exit viola properly (do not exit viola
with control-C), else the X server will be anguished.</EMPH>
</DL>
<P>
Please ignore the <ITALIC>Public</ITALIC> and <ITALIC>Private</ITALIC>
bookmarks for now.
<P>
Well, development continues! If you have any comments, suggestions,
bug-reports, whatever, at all, please feel free to send them my way.

<ADDRESS><P>Pei
<P><KBD>pei@ora.com</KBD>
</ADDRESS>
</HMML>

```

```
<!DOCTYPE html SYSTEM "html.dtd">
<HTML>
<TITLE>Test misc</TITLE>
<H1>Header 1</H1>
<H2>Header 2</H2>
<H3>Header 3</H3>
See the <A HREF="/etc/motd">motd</A> for useless messages.
<XMP>
LISTING   HTML_listing   0    0 10 10 25
TITLE     HTML_title     0    0 10 10 25
</XMP>
Here is an ordered list:
<OL>
<LI>socks
<LI>scarf
<LI>pillows
</OL>
And an unordered list.
<UL>
<LI>rubber ball.
<LI>I recollect that, when a stripling, my first exploit in
squirrel-shooting was in a grove of tall walnut-trees that shades
one side of the valley.  I had wandered into it at noontime, when
all nature is peculiarly quiet, and was startled by the roar of
my own gun, as it broke the Sabbath stillness around and was
prolonged and reverberated by the angry echoes.
<LI>If ever I should
wish for a retreat whither I might steal from the world and its
distractions, and dream quietly away the remnant of a troubled
life, I know of none more promising than this little valley.
</UL>
Definition lists:
<DL>
<DT>First term
<DD>Definition paragraph starts here.
<DT>Second term
<DD>Second definition paragraph starts here.
</DL>
Menu:
<MENU>
<LI>cinamon crepe
<LI>zinc coated pop corn.
<LI>rasberry spring water
</MENU>
Here is a dir (x2):
<DIR>
<LI>socks 0
<LI>scarf 1
<LI>pillows 2
<LI>apple 3
<LI>kiwi 4
<LI>banana 5
<LI>pinball 6
</DIR>
<ADDRESS>Angel666
<P><KBD>angel666@alpha.div</KBD>
</ADDRESS>
</HTML>
```

```
<!DOCTYPE hmml SYSTEM>
<TITLE>Test</TITLE>
<H1>List No. 5</H1>
<P>
The <CMD>&lt;VOBJF&gt;</CMD> tag can be used to insert viola applications.
Using this capability allows you embed in your document what you can
access or build using viola's programming, and GUIs. Of course too much
violaism reduces the portability of your document on the World Wide Web,
but anyway...
</P>
<P>
Here are some examples.
<H2>Clock</H2>
<VOBJF>/home/wei/viola/apps/clock.v</VOBJF>
<H2>Vicon</H2>
<VOBJF>/home/wei/viola/apps/vicon.v</VOBJF>
<P>
This can be a handy menu to tuck away at a corner of the screen.
</P>
<H2>Query</H2>
<VOBJF>/home/wei/viola/apps/vwq.v</VOBJF>
<P>
This application is intended to gather user information.
</P>
<H2>Wave fun</H2>
<VOBJF>/home/wei/viola/apps/wave.v</VOBJF>
<H2>Noodle Doodles</H2>
<VOBJF>/home/wei/viola/apps/doodle.v</VOBJF>
<P>
So I was bored...
</P>
<P>
The end.
</P>
```

```
<!DOCTYPE hmml SYSTEM>
<HMML>
<TITLE>RandoMyster's Waves</TITLE>
<DL>
<DT>Title<DD>Brush Motion
<DT>Artist<DD>Rando "random art does not apologize" Myster
<DT>Date<DD>1993, March 7, before breakfast
</DL>
<VOBJF>colorwavy.v</VOBJF>
<P>
Warning: playing with color too much will take all the color resources...
(Yes, this is a bug).
</HMML>
```

```
<!DOCTYPE hmml SYSTEM>
<HMML>
<GROUP>www</GROUP>
<TITLE>XPlot</TITLE>
<H1>An equation and vector-objects plotting program</H1>
<P>
The <CMD>xplot</CMD> program was written by Scott Silvey at the
Experimental Computing Facility of UCB. In an experiment,
<CMD>xplot</CMD> was made accessible by other program, such as viola.
<P>
Here's a viola front-end to <CMD>xplot</CMD>, which is embedded
into <ITALIC>this</ITALIC> document.
<VOBJF>/home/wei/viola/apps/plot.v</VOBJF>
<EXAMPLE>
file /home/wei/vplot/off/x29.geom
equation .4 * sin(.4 * x + y)
equation .4 * sin(1 - x*x - y*y)
equation .4 * exp(1 - x*x - y*y) * sin(1 - x*x - y*y)
equation .4 * exp(1 - x*x - y*y) * sin(1 - x^4 - y^4)
</EXAMPLE>
</HMML>

```

```
\class {vpane}
\name {plot}
\script {
        switch (arg[0]) {
        case "build":
                /* arg[1]       sourcefile
                 * arg[2]       parent
                 * arg[3]       name
                 * arg[4]       width
                 * ret          documentObject or 0
                 */
                docObj = plot.info("clone");
                send(docObj, "build", arg[1], arg[2], arg[3], arg[4]);

                if (isBlank(docObj) == 1) {
                        www.mesg.tf("show",
                                concatenate("Failed to get ", arg[1]));
                        cursorShape("idle");
                        return 0;
                } else {

                        www.mesg.tf("show", "");
                        www.udi.tf("show", arg[1]);

                        return docObj;
                }
        break;
        case "TTYObjP":
                return nthChild(0);
        break;
        case "canvas_WIDP":
        case "canvas_widthP":
        case "canvas_heightP":
                return send(nthChild(2), arg[0]);
        break;
        }
        usual();
}
\children {plot.TTY plot.head plot.body plot.cmd}
\width {500}
\height {500}
\
\class {txtLabel}
\name {plot.head}
\parent {plot}
\label {XPlot}
\maxHeight {18}
\font {normal}
\BGColor {LemonChiffon2}
\BDColor {LemonChiffon3}
\FGColor {black}
\
\class {hpane}
\name {plot.body}
\parent {plot}
\children {plot.body.view plot.body.ctrl}
\script {
        switch (arg[0]) {
        case "canvas_WIDP":
        case "canvas_widthP":
        case "canvas_heightP":
                return send(nthChild(0), arg[0]);
        break;
        case "TTYObjP":
                return send(parent(), "TTYObjP");
        break;
        }
        usual();
}
\BGColor {black}
\
\class {field}
\name {plot.body.view}
\parent {plot.body}
\BGColor {LightSteelBlue4}
```



```
\BDColor {LemonChiffon2}
\FGColor {black}
\script {
        switch (arg[0]) {
        case "canvas_WIDP":
                return get("window");
        break;
        case "canvas_widthP":
                return get("width");
        break;
        case "canvas_heightP":
                return get("height");
        break;
        case "clear":
                clearWindow();
                return;
        break;
        case "expose":
        case "config":
                usual();
                if (get("window") != 0) {
                        TTYObj = send(parent(), "TTYObjP");
/*                      send(TTYObj, "initClient");
*/
                        after(1, TTYObj, "initClient");
                }
/*
                width = send(parent(), "canvas_widthP");
                height = send(parent(), "canvas_heightP");
                send(TTYObj, "output",
                        concat("window ", get("window"), " ",
                                get("width"), " ", get("height")));
                print(">>>",
                        concat("w ", get("window"), " ",
                                get("width"), " ", get("height")), "\n");
*/
                return;
        break;
        }
        usual();
}
\
\class {vpane}
\name {plot.body.ctrl}
\parent {plot.body}
\children {plot.body.ctrl.ops plot.body.ctrl.cam plot.body.ctrl.quit}
\script {
        switch (arg[0]) {
        case "TTYObjP":
                return send(parent(), "TTYObjP");
        break;
        case "SUPER_HACK":
                return send(nthChild(0), "SUPER_HACK");
        break;
        }
        usual();
}
\BGColor {LemonChiffon2}
\maxWidth {60}
\gapH {2}
\
\class {menu}
\name {plot.body.ctrl.ops}
\parent {plot.body.ctrl}
\label {Ops}
\script {
        switch (arg[0]) {
        case "buttonRelease":
/*              send(send(parent(), "TTYObjP"), "output", "quit");
                quit();
*/
        break;
        case "x29":
                TTYObj = send(parent(), "TTYObjP");
                send(TTYObj, "output", "domain -10 10 -10 10");
```

```
151                     send(TTYObj, "output",
152                             "file /home/wei/vplot/off/x29.geom");
153                     send(TTYObj, "output", "expose");
154                     return;
155             break;
156             case "TomCat":
157                     TTYObj = send(parent(), "TTYObjP");
158                     send(TTYObj, "output", "domain -10 10 -10 10");
159                     send(TTYObj, "output",
160                             "file /home/wei/vplot/off/TomCat");
161                     send(TTYObj, "output", "expose");
162                     return;
163             break;
164             case "eq1":
165                     TTYObj = send(parent(), "TTYObjP");
166                     send(TTYObj, "output", "interval .2");
167                     send(TTYObj, "output", "domain -2 2 -2 2");
168                     send(TTYObj, "output",
169                             "equation .4 * sin(x * y)");
170                     send(TTYObj, "output", "expose");
171                     return;
172             break;
173             case "eq2":
174                     TTYObj = send(parent(), "TTYObjP");
175                     send(TTYObj, "output", "interval .2");
176                     send(TTYObj, "output", "domain -2 2 -2 2");
177                     send(TTYObj, "output",
178                             "equation .4 * sin(1 - x*x - y*y)");
179                     send(TTYObj, "output", "expose");
180                     return;
181             break;
182             case "eq3":
183                     TTYObj = send(parent(), "TTYObjP");
184                     send(TTYObj, "output", "interval .2");
185                     send(TTYObj, "output", "domain -2 2 -2 2");
186                     send(TTYObj, "output",
187                         "equation .4 * exp(1 - x*x - y*y) * sin(1 - x*x - y*y)");
188                     send(TTYObj, "output", "expose");
189                     return;
190             break;
191             case "eq4":
192                     TTYObj = send(parent(), "TTYObjP");
193                     send(TTYObj, "output", "interval .2");
194                     send(TTYObj, "output", "domain -2 2 -2 2");
195                     send(TTYObj, "output",
196                         "equation .4 * exp(1 - x*x - y*y) * sin(1 - x^4 - y^4)");
197                     send(TTYObj, "output", "expose");
198                     return;
199             break;
200             case "SUPER_HACK":
201                     set("visible", 0);
202                     set("visible", 1);
203                     return;
204             break;
205             }
206             usual();
207     }
208     \BDColor {white}
209     \BGColor {grey45}
210     \FGColor {white}
211     \gapH {3}
212     \gapV {3}
213     \maxHeight {20}
214     \height {20}
215     \menuConfig {
216     . {file /home/wei/vplot/off/x29.geom} {send(self(), "x29");}
217     . {file /home/wei/vplot/off/TomCat} {send(self(), "TomCat");}
218     . {equation .4 * sin(x * y)} {send(self(), "eq1");}
219     . {equation .4 * sin(1 - x*x - y*y)} {send(self(), "eq2");}
220     . {equation .4 * exp(1 - x*x - y*y) * sin(1 - x*x - y*y) } {send(self(), "eq3");
        }
221     . {equation .4 * exp(1 - x*x - y*y) * sin(1 - x^4 - y^4) } {send(self(), "eq4");
        }
222     . {Quit} {quit();}
223     }
```



```
224     \
225     \class {hpane}
226     \name {plot.body.ctrl.cam}
227     \parent {plot.body.ctrl}
228     \children {plot.body.ctrl.cam.x plot.body.ctrl.cam.y plot.body.ctrl.cam.z}
229     \script {
230             switch (arg[0]) {
231             case "TTYObjP":
232                     return send(parent(), "TTYObjP");
233             break;
234             case "expose":
235                     send(parent(), "SUPER_HACK");
236             break;
237             }
238             usual();
239     }
240     \gapH {3}
241     \gapV {3}
242     \maxHeight {200}
243     \height {200}
244     \
245     \class {slider}
246     \name {plot.body.ctrl.cam.x}
247     \parent {plot.body.ctrl.cam}
248     \script {
249             switch (arg[0]) {
250             case "_shownPositionV":
251                     send(TTYObj, "cx", arg[1]);
252             break;
253             case "expose":
254                     usual();
255                     TTYObj = send(parent(), "TTYObjP");
256                     return;
257             break;
258             }
259             usual();
260     }
261     \BGColor {grey45}
262     \
263     \class {slider}
264     \name {plot.body.ctrl.cam.y}
265     \parent {plot.body.ctrl.cam}
266     \script {
267             switch (arg[0]) {
268             case "_shownPositionV":
269                     send(TTYObj, "cy", arg[1]);
270             break;
271             case "expose":
272                     usual();
273                     TTYObj = send(parent(), "TTYObjP");
274                     return;
275             break;
276             }
277             usual();
278     }
279     \BGColor {grey45}
280     \
281     \class {slider}
282     \name {plot.body.ctrl.cam.z}
283     \parent {plot.body.ctrl.cam}
284     \script {
285             switch (arg[0]) {
286             case "_shownPositionV":
287                     send(TTYObj, "cz", arg[1]);
288             break;
289             case "expose":
290                     usual();
291                     TTYObj = send(parent(), "TTYObjP");
292                     return;
293             break;
294             }
295             usual();
296     }
297     \BGColor {grey45}
298     \
```

```
\class {txtButton}
\name {plot.body.ctrl.quit}
\parent {plot.body.ctrl}
\label {Quit}
\script {
        switch (arg[0]) {
        case "buttonRelease":
/*              send(send(parent(), "TTYObjP"), "output", "quit");
*/
                quit();
        break;
        }
        usual();
}
\BDColor {white}
\BGColor {grey45}
\gapH {3}
\gapV {3}
\maxHeight {20}
\height {20}
\
\class {txtEdit}
\name {plot.cmd}
\parent {plot}
\script {
        switch (arg[0]) {
        case "buttonPress":
                send(send(parent(), "TTYObjP"), "initClient");
                return;
        break;
        case "keyPress":
                c = key();
                if (c == '\r') {
/*
                        cursorShape("busy");
*/
                        print("issue command:", currentLine(), "\n");
                        send(get("parent"), "search", currentLine());
                        insert('\r');
                        insert(c);

                        if (cursorRow() != 0) {
                                /* a kludgy safe guard to simulate
                                 * carriage-return then ctrl-p
                                 */
                                insert("\r\16\1");
                        }
                } else {
                        insert(c);
                }
                return;
        break;
        case "busy":
        case "idle":
                cursorShape(arg[0]);
                return;
        break;
        }
        usual();
}
\maxHeight {18}
\BGColor {grey45}
\FGColor {white}
\
\class {TTY}
\name {plot.TTY}
\parent {plot}
\path {/home/wei/vplot/vplot}
\script {
/*\path {/home/wei/vplot/vplot}\path {/usr/ucb/yes}\path {/home/wei/simplex/t}
*/
/*      print(": ", arg[0], ", ", arg[1], "\n");*/
/*      print("TTY: ", arg[0], "\n");
*/
        switch (arg[0]) {
```



```
        case "cx":
                output(concat("cx ", arg[1]));
                return;
        break;
        case "cy":
                output(concat("cy ", arg[1]));
                return;
        break;
        case "cz":
                output(concat("cz ", arg[1]));
                return;
        break;
        case "output":
                output(arg[1]);
                return;
        break;
        case "input":
                in = input(0);
/*              print("####### plot.tty input: {", in, "}\n");
*/
/*
                if (in == "BEGIN") {
                        print("plot.tty: sending initialization cmds\n");

                        output("bgcolor LemonChiffon1");
                        output("fgcolor black");

                        w = send(parent(), "canvas_WIDP");
                        width = send(parent(), "canvas_widthP");
                        height = send(parent(), "canvas_heightP");
                        output(concat("w ", w, " ", width, " ", height));
                }
*/
                return;
        break;
        case "init":
                usual();
                print("plot.tty: init\n");
                initialize();
                set("inDelimStr1", "\n");
                set("inDelimStr2", "\r");
                set("outDelimStr", "\n");
                startClient();

                return;
        break;
        case "initClient":
                print("plot.tty: sending initialization cmds\n");

                w = send(parent(), "canvas_WIDP");
                width = send(parent(), "canvas_widthP");
                height = send(parent(), "canvas_heightP");
                output(concat("window ", w, " ", width, " ", height));
                output("domain -2 2 -2 2");
                output("interval .2");
                output("equation 0");
                output("bgcolor LemonChiffon1");
                output("fgcolor yellow");
                output("expose");
                output("expose");

                print("  w = {", w, "}\n");
                return;
        break;
        }
        usual();
}
\height {1}
\maxHeight {1}
\BGColor {LemonChiffon2}
\
```

```
\name {doodle}
\class {vpane}
\children {doodle.ctrl doodle.canvas}
\width {400}
\height {400}
\
\class {hpane}
\name {doodle.ctrl}
\parent {doodle}
\children {doodle.ctrl.ops doodle.ctrl.brush doodle.ctrl.color}
\maxHeight {20}
\BGColor {grey45}
\
\class {menu}
\name {doodle.ctrl.ops}
\parent {doodle.ctrl}
\menuConfig {
. {backup}              {send("doodle.canvas", "backup");}
. {redraw               {send("doodle.canvas", "redraw");}
. {record on}           {send("doodle.canvas", "record on");}
. {record off}          {send("doodle.canvas", "record off");}
. {dump}                {send("doodle.canvas", "dump");}
. {clear stroke list}   {send("doodle.canvas", "clear");}
. {clearWindow}         {send("doodle.canvas", "clearWindow");}
. {save}                {send("doodle.canvas", "save");}
. {effect A, x10}       {send("doodle.canvas", "effect A", 10);}
. {effect A, x100}      {send("doodle.canvas", "effect A", 100);}
. {effect A, x200}      {send("doodle.canvas", "effect A", 200);}
. {effect A, x1000}     {send("doodle.canvas", "effect A", 1000);}
. {effect B}            {send("doodle.canvas", "effect B");}
. {effect C}            {send("doodle.canvas", "effect C");}
. {effect D}            {send("doodle.canvas", "effect D");}
. {effect E wave}       {send("doodle.canvas", "effect E");}
}
\label {Operation}
\maxWidth {100}
\FGColor {white}
\BGColor {grey45}
\BDColor {white}
\
\class {menu}
\name {doodle.ctrl.brush}
\parent {doodle.ctrl}
\menuConfig {
. {line}                {send("doodle.canvas", "setBrush", 0);}
. {point}               {send("doodle.canvas", "setBrush", 1);}
. {larger point}        {send("doodle.canvas", "setBrush", 2);}
. {even larger point}   {send("doodle.canvas", "setBrush", 3);}
. {very large point}    {send("doodle.canvas", "setBrush", 4);}
. {monster point}       {send("doodle.canvas", "setBrush", 5);}
. {textual 1}           {send("doodle.canvas", "setBrush", 6);}
. {textual 3}           {send("doodle.canvas", "setBrush", 7);}
}
\label {Brushes}
\maxWidth {100}
\FGColor {white}
\BGColor {grey45}
\BDColor {white}
\
\class {menu}
\name {doodle.ctrl.color}
\parent {doodle.ctrl}
\menuConfig {
. {black}               {send("doodle.canvas", "setColor", "black");}
. {white}               {send("doodle.canvas", "setColor", "white");}
. {red}                 {send("doodle.canvas", "setColor", "red");}
. {blue}                {send("doodle.canvas", "setColor", "blue");}
. {green}               {send("doodle.canvas", "setColor", "green");}
\label {Colors}
\maxWidth {100}
\FGColor {white}
\BGColor {grey45}
\BDColor {white}
\
\class {field}
```



```
\name {doodle.canvas}
\parent {doodle}
\script {
        switch (arg[0]) {
        case "mouseMove":
                if (penDownP) {
                        x0 = x1;
                        y0 = y1;
                        x1 = arg[1];
                        y1 = arg[2];
                        if (brush == 0) {
                                drawLine(x0, y0, x1, y1);
                                if (record == 1) {
                                        stroke[count] = concat("drawLine(",
                                                x0, ",", y0, ",",
                                                x1, ",", y1, ");");
                                        count = count + 1;
                                }
                        } else if (brush == 1) {
                                drawLine(x1, y1, x1, y1);
                                if (record == 1) {
                                        stroke[count] = concat("drawLine(",
                                                x1, ",", y1, ",",
                                                x1, ",", y1, ");");
                                        count = count + 1;
                                }
                        } else if (brush == 2) {
                                drawFillRect(x1, y1, x1 + 2, y1 + 2);
                                if (record == 1) {
                                        stroke[count] = concat("drawFillRect(",
                                                x1, ",", y1, ",",
                                                x1 + 2, ",",
                                                y1 + 2, ");");
                                        count = count + 1;
                                }
                        } else if (brush == 3) {
                                drawFillRect(x1, y1, x1 + 5, y1 + 5);
                                if (record == 1) {
                                        stroke[count] = concat("drawFillRect(",
                                                x1, ",", y1, ",",
                                                x1 + 5, ",",
                                                y1 + 5, ");");
                                        count = count + 1;
                                }
                        } else if (brush == 4) {
                                drawFillRect(x1, y1, x1 + 10, y1 + 10);
                                if (record == 1) {
                                        stroke[count] = concat("drawFillRect(",
                                                x1, ",", y1, ",",
                                                x1 + 10, ",",
                                                y1 + 10, ");");
                                        count = count + 1;
                                }
                        } else if (brush == 5) {
                                drawFillRect(x1, y1, x1 + 100, y1 + 100);
                                if (record == 1) {
                                        stroke[count] = concat("drawFillRect(",
                                                x1, ",", y1, ",",
                                                x1 + 100, ",",
                                                y1 + 100, ");");
                                        count = count + 1;
                                }
                        } else if (brush == 6) {
                                c = nthChar(brushText, idx);
                                drawText(x1, y1, 1, c);
                                idx = idx + 1;
                                if (record == 1) {
                                        stroke[count] = concat("drawText(",
                                                x1, ",", y1, ",",
                                                "1, ", c, ");");
                                        count = count + 1;
                                }
                        } else if (brush == 7) {
                                c = nthChar(brushText, idx);
                                drawText(x1, y1, 3, c);
```

```
151                                 idx = idx + 1;
152                                 if (record == 1) {
153                                         stroke[count] = concat("drawText(",
154                                                 x1, ",", y1, ",",
155                                                 "3, ", c, ");");
156                                         count = count + 1;
157                                 }
158                         }
159                         return;
160                 }
161         break;
162         case "buttonPress":
163                 penDownP = 1;
164                 x0 = mouseX();
165                 y0 = mouseY();
166                 x1 = x0;
167                 y1 = y0;
168         break;
169         case "buttonRelease":
170                 penDownP = 0;
171         break;
172         case "setColor":
173                 set("FGColor", arg[1]);
174         break;
175         case "setBrush":
176                 brush = arg[1];
177                 if (brush == 6) {
178                         idx = 0;
179 /*                      brushText = loadFile("~/aliceInWonderland.txt");
180                         brushText = loadFile("/home/wei/viola/apps/doodle.v");
181 */
182                         brushText = loadFile("/usr/dict/words");
183                 } else if (brush == 7) {
184                         idx = 0;
185                         brushText = loadFile("/usr/dict/words");
186                 }
187         break;
188         case "clear":
189                 count = 0;
190                 clearWindow();
191                 return;
192         break;
193         case "clearWindow":
194                 clearWindow();
195                 return;
196         break;
197         case "save":
198                 tt = "";
199                 for (i = 0; i < count; i = i + 1) {
200                         tt = concat(tt, stroke[i], "\n");
201                 }
202                 print("Saving to doodle.out\n");
203                 saveFile("/usr/tmp/doodle.out", tt);
204                 return;
205         break;
206         case "dump":
207                 for (i = 0; i < count; i = i + 1) {
208                         print(i, "\t", stroke[i], "\n");
209                 }
210                 return;
211         break;
212         case "backup":
213                 count = count - 1;
214                 return;
215         break;
216         case "redraw":
217                 tt = "";
218                 for (i = 0; i < count; i = i + 1) {
219                         tt = concat(tt, stroke[i]);
220                 }
221                 clearWindow();
222                 interpret(tt);
223                 return;
224         break;
225         case "record on":
```



```
226                 record = 1;
227                 return;
228         break;
229         case "record off":
230                 record = 0;
231                 return;
232         break;
233         case "effect A":
234                 if (count <= 0) return;
235                 n = arg[1];
236                 for (i = 0; i < n; i = i + 1) {
237 /*
238                         idx = random(1) % count;
239                         print("idx=", idx, "\n");
240                         print("> ", idx, "\t", stroke[idx], "\n");
241                         hue = (random(0) % 50) * 2;
242                         set("FGColor", concat(hue, " ",hue, " ",hue));
243 */
244                         set("FGColor", "grey90");
245                         idx = random(1) % count;
246                         interpret(stroke[idx]);
247
248                         set("FGColor", "grey80");
249                         idx = random(1) % count;
250                         interpret(stroke[idx]);
251
252                         set("FGColor", "grey70");
253                         idx = random(1) % count;
254                         interpret(stroke[idx]);
255                 }
256                 return;
257         break;
258         case "effect B":
259                 if (count <= 0) return;
260                 for (i = 0; i < count;) {
261                         set("FGColor", "blue");
262                         interpret(stroke[i]);
263                         i = i + 1;
264
265                         set("FGColor", "green");
266                         interpret(stroke[i]);
267                         i = i + 1;
268                 }
269                 return;
270         break;
271         case "effect C":
272                 if (count <= 0) return;
273                 for (i = 0; i < count;) {
274                         set("FGColor", "blue");
275                         interpret(stroke[i]);
276                         i = i + 1;
277
278                         set("FGColor", "grey");
279                         interpret(stroke[i]);
280                         i = i + 1;
281                 }
282                 return;
283         break;
284         case "effect D":
285                 if (count <= 0) return;
286                 for (i = 0; i < count;) {
287                         set("FGColor", "grey80");
288                         interpret(stroke[i]);
289                         i = i + 1;
290
291                         set("FGColor", "grey70");
292                         interpret(stroke[i]);
293                         i = i + 1;
294
295                         set("FGColor", "grey60");
296                         interpret(stroke[i]);
297                         i = i + 1;
298                 }
299                 return;
300         break;
```

```
301         case "effect E":
302                 if (count <= 0) return;
303                 for (i = 2; i < count;) {
304                         set("FGColor", "grey80");
305                         interpret(stroke[i + 1]);
306
307                         set("FGColor", "grey50");
308                         interpret(stroke[i]);
309
310                         set("FGColor", "grey80");
311                         interpret(stroke[i - 1]);
312
313                         set("FGColor", "white");
314                         interpret(stroke[i - 2]);
315                         i = i + 1;
316                 }
317                 return;
318         break;
319         case "init":
320                 usual();
321                 record = 1;
322                 penDownP = 0;
323                 return;
324         break;
325         }
326         usual();
327 }
328 \
```

```
\class {field}
\name {colorwavy}
\parent {}
\script {
        switch (arg[0]) {
        case "graph":
                theta0 = theta0 + .8;
                theta1 = theta1 + .5;

                c0 = c0 + dir;
                if (c0 <= 0) {
                        dir = random(0) / 20000000;
                } else if (c0 > 99) {
                        dir = random(0) / -20000000;
                }
                for (x = x0; x < x1; x = x + 2) {
                        theta0 = theta0 + .1;
                        y = sin(theta0 * f) * r + r;
                        theta1 = theta1 + .1;

                        set("FGColor", concat(c0, ' ', c0, ' ', c0));
                        drawLine(x, y, x, sin(theta1 * f) * r + r);
                }
                if (view == 1) after(100, self(), "graph");
                return;
        break;
        case "randomizeBGColor":
                if (view) {
                        set("BGColor", concatenate(random(0) / 20000000, " ",
                                        random(0) / 20000000, " ",
                                        random(0) / 20000000));
                        clearWindow();
                        after(10000, self(), "randomizeBGColor");
                }
                return;
        break;
        case "VIEW_ON":
                view = 1;
                after(500, self(), "graph");
                after(10000, self(), "randomizeBGColor");
        break;
        case "expose":
                send(send(parent(), "findTop"), "VW_relay", self(),"VIEW_ON");
                send(send(parent(), "findTop"), "VW_relay", self(),"VIEW_OFF");
                view = 1;
                after(500, self(), "graph");
                f = 10.0;
                x0 = 0;
                xx = width();
                x1 = xx;
                r = height() / 2.0;
                after(10000, self(), "randomizeBGColor");
        break;
        case "VIEW_OFF":
                view = 0;
        break;
        case "buttonPress":
                send(self(), "VIEW_ON");
        break;
        case "keyPress":
                send(self(), "VIEW_OFF");
        break;
        }
        usual();
}
\width {100}
\height {100}
\
```

```
\class {field}
\name {wave}
\parent {}
\children {wave.sb}
\script {switch (arg[0]) {
case "graph":
/*    degree = float(arg[1]) / 100.0 * 360.0;
    print("degree=", degree, "\n");
*/
    f = float(arg[1]);
    xx = width();
    r  = height() / 2.0;
    theta = 0;
    for (x = 20; x < xx; x = x + 2) {
        theta = theta + .1;
        y = sin(theta * f) * r + r;

/*      print("x=", x, "  y=", y, " \n");
        print("theta=", theta, "  f=", f, " \n");
*/
        drawLine(x, y, x, y + 1);
    }
    return;
break;
}
usual();
}
\width {149}
\height {200}
\BDColor {55 55 55}
\BGColor {blue}
\CRColor {99 99 99}
\FGColor {99 99 99}
\
\class {slider}
\name {wave.sb}
\parent {wave}
\script {
switch (arg[0]) {
case "_shownPositionV":
    usual();
    send(parent(), "graph", arg[1]);
    return;
break;
}
usual();
}
\width {20}
\height {200}
\BDColor {55 55 55}
\BGColor {25 25 25}
\CRColor {99 99 99}
\FGColor {99 99 99}
\direction {t}
\
```

```
\name {clock}
\class {vpane}
\parent {}
\width {200}
\height {210}
\children {clock.dial clock.mesg}
\
\name {clock.dial}
\class {XPMBG}
\parent {clock}
\script {
        print("@@@@@@ clock: ");
        for (i =0; i < arg[]; i++) print(arg[i], ", ");
        print("\n");

        switch (arg[0]) {
        case "tick":

                date = date();
                clock.mesg("update");
                second = int(nthWord(date, 6));
                minute = int(nthWord(date, 5));
                hour = int(nthWord(date, 4));
                if (hour >= 12) hour = hour - 12;

                secondD = (second / 60.0 * 360.0) - 90.0;
                minuteD = (minute / 60.0 * 360.0) - 90.0;
                hourD = (hour / 12.0 * 360.0) - 90.0 + (minute / 60.0 * 30.0);

                secondX = secondR * cos(secondD) + centerX;
                secondY = secondR * sin(secondD) + centerY;
                minuteX = minuteR * cos(minuteD) + centerX;
                minuteY = minuteR * sin(minuteD) + centerY;
                hourX = hourR * cos(hourD) + centerX;
                hourY = hourR * sin(hourD) + centerY;

                if (lminuteX != minuteX) {
                        clearWindow();
                        clock.dial("render"); /* brutally redraw */
                        drawLine(centerX, centerY, minuteX, minuteY);
                        drawLine(centerX, centerY, hourX, hourY);
                        invertLine(centerX, centerY, lsecondX, lsecondY);
                }
                invertLine(centerX, centerY, lsecondX, lsecondY);
                invertLine(centerX, centerY, secondX, secondY);

                lsecondX = secondX;
                lsecondY = secondY;
                lminuteX = minuteX;
                lminuteY = minuteY;
                lhourX = hourX;
                lhourY = hourY;
                if (view) after(1000, "clock.dial", "tick");
                return;
        break;
        case "render":
                usual();
                for (i = 1; i <= 12; i = i + 1) {
                        x = letterR * cos((i / 12.0 * 360) - 90) +
                                centerX - 10;
                        y = letterR * sin((i / 12.0 * 360) - 90) +
                                centerY - 5;
                        drawText(x, y, i, str(i));
                }
                return;
        break;
        case "VIEW_ON":
                view = 1;
                return;
        break;
        case "VIEW_OFF":
                view = 0;
                return;
        break;
        case "expose":
```



```
                clearWindow();
                lminuteX = 0; /* forces redrawing */
                lhourX = 0; /* forces redrawing */
        break;
        case "config":
                usual();
                send(self(), "resize", arg[3], arg[4]);
                return;
        break;
        case "resize":
                if (arg[1] < arg[2])
                        radius = arg[1] / 2.0;
                else
                        radius = arg[2] / 2.0;

                centerX = arg[1] / 2.0;
                centerY = arg[2] / 2.0;
                secondR = radius * 0.95;
                minuteR = radius * 0.9;
                hourR   = radius * 0.6;
                letterR = (radius - 9) * 0.94;

                after(2000, "clock.dial", "tick");
                lminuteX = 0;

/*              system(concat(environVar("VIOLA"), "/play ",
                                environVar("VIOLA_DOCS"), "/cuckoo.au"));
*/
        break;
        }
        usual();
}
\label {/* XPM */
static char * marble2.xpm [] = {
"112 118 17 1",
"  c #3F3F3F3F7F7F",
". c #3F3F7F7F3F3F",
"X c #3F3F7F7F7F7F",
"o c #3F3F3F3F3F3F",
"O c #00003F3F7F7F",
"+ c #00007F7F7F7F",
"@ c #00007F7F3F3F",
"# c #7F7F7F7FBFBF",
"$ c #7F7F7F7F7F7F",
"% c #3F3FBFBF7F7F",
"& c #7F7FBFBF7F7F",
"* c #7F7FBFBFBFBF",
"= c #3F3F7F7FBFBF",
"- c #00003F3F3F3F",
"; c #3F3FBFBFBFBF",
": c #7F7F7F7F3F3F",
"? c #7F7F3F3F7F7F",
" .X . . .XoXoXoXo . .Oo+o . .Xo.XXoXO. .XoX .oo . o@oo+oXXXX#$XXX%$X&*$&X&X$XX$
 %X&X$XXXX$XXX$X&$X&=&X$%$XX$XXXX$",
"X .Xo+oXoXXo-X .XX-Xo. . . @ . Xoo .oX. XX. -X- -. - @ .o .XXX. .XX$*$*$#X*X$;$
 **$%$X&X$%XXX&X#%#X$XXXXX$%XX.XX.",
".o+oXoXoXXoX .X . . @ o@ . .X .Xo+o@ -X.. X. oo.o-oXo . . .-Xo @ XXXX&X&X&X$%$X
 &#%$X&XXXXXX$X&X$%XXX$X$XXXXX . .",
"oXoX-XoX. .-Xo.O.X-XoXXoXoXXoXXXo.  . @ X. Xo@ o -o-. -. . . @XoX.XX$X$X*$%#X$&
 X$X$=$X$X$XXX$XXX$X$%XXX.Xo.X.XXX",
".O.XoXoX XXoXoXoXoXoX.XXXX.XX. .X @oXo.XoXXoXX. .oXo @oo-X-XooXXXXXXX%X$X&X$%X#
 X%$X&X$XX$X$%X&X$XXX$XX$XX XoXXoX",
" . .O. @oXo+ .XO. .X-XoX. XoXX. o. .O. XX.O. . Xo--oXoO. o.Oo+ooX.X$XX$%#X*$$%$
 $X$XXXXX%XX$XXXXX%XXX$XXX.X.$XoX.",
".OoXoXoXo+XoX-X. . .XXXXX.XXoX .O. X. .XoX.XX@XX . -XoX-.Oo.O.oX. .X.XX$%$%#%$X
 *X&XXXX$X.XX.$X$X$XX.XX.XX XXXXX ",
"o@o@ @ -Xo . . . @X . . . : XoX.XoX.XXX.X XoX . .Oo.O.o oX .oO.OXXX.XXXX$&#&#%$
 X$XXX.XX. oXXXXXXXX$o. X$X$. . .X",
"- . -XoXoX-X- @ . . XX.XX.XX.XoXX.X XX. +.O. .XXoXo+o .+o+o+oXo. . XoX.$X%$X&X$
 %XXX$XXXXXXXXXX$XX. .X.XXXX.X. .",
".oO.oo+o.O. .oo-oO.o. XoX XoXXXoX .X.XXXoX. .XoXXoXoX-XoXoXoXo+ .X.XX.XX$X&XXXX
 $XX.X.X.XXXX:XX$XX. o . X$X. XoXo",
"oO.o+oo+o o- - . . +o+oXo.XXoX.XX. X . .XoX@ .XoX-X. .oX.X.XoX.X . XoXX$X&=$X$X
 XXo . X$X$XX X.XXo o@oXXX.X$XX. X",
"o.oOo+o .-Xoo.oO.OooX. .X . X. X. .. X. XXo . -XoXoX.OXo+oXOXoO.oX. XXX$XX$X$%$
```

```
    XXX.XXXXXXoXX. oXo-o-o-XXXXX .Xo",
140 "- .oXo+oo -oOoo. o.- X @ X XXX X @ .XXoX. -.o. .X-XoX. . .X.XoXXoX.X.XX$X&XX$
    $XXoXoXoXXX$o .oo@oo-oXoXX$. Xo+o",
141 "o- -. .O.-Xo-oOo.OoXoO. .oX-X .X.oXo. . . o.oOoO.O. .XoO. @Xo @XoXXoXX XXXXX$&=
    %$XXoX. .oX.Xo-o- oOo-XXX.XXX.XoX",
142 "O.-X-XooOooo o-o-oo-.o @o-X .X . Xo- .X .X-Xo. . . . -.oXooXX. XXoXXo.X.XX$XXX$
    XXX. . . XoX . - .oXooXoX$XXX .XX",
143 ". o-oO.O.oO.. @o . o -ooOo.X XX @ -XoXo . -X-o+oXoXoOo+oX-XoX. X.Xo+oXX.XX$%X
    XXXoXoXX-X .o@ o.Oo+oXXXXXX?.X . ",
144 "O.- @o .-oo- -o-o-oo.Oo- .OoX. . +oo@o .X-X-Xo-XoXo-.- . . .XoX-X.X . .X .XXXXX$
    X. . .O.X. . o@ -o. @ .XoXoX.X. .",
145 "o .o @o oOoo@o oo - ooXoo. -X-X. . o@ . .oXoX. -. X . X-XoX@ X.X .XX. . . .X$XX
    X. .XoXo o@ o-ooX @ . . X.XoXoX. ",
146 "@oO.- .-.- o o-.O.o-.OoX- @ooX .Xo+ . .Oo- @ oXoX-.OX. . @XXoX .XoXoXO. . .X.X.
    o. . .Xoo .oXo+o. o@ @ . XXXoXo.",
147 " .oOooOoO.-o-.o-o oXoo-o.oo+o@Xo-X . .. .oXoX. .O.oXo+oXoXXXX.Xo+o+oXo+oXoX XX
    . -X-oOo-o- @o-o -.OoXoXoX. o+oXo",
148 ".Ooo+oo@o o+o oX-. -oX .OoXoXoXoXoXX. . @ . .OXXoXoX-XoX@ XX. Xo+oXoX. . .X.XoX
    oXo-. -.o @ooOo .o . . . -o.-o.Oo",
149 ".o-oo- o-o-o .-oXooX-oXoXoX-XoX-XX XXXoXoX.XoXXoX- . . . . $.Xo . . .X-XX XoXo
    X-ooo-o -ooO.o@o- @ @ .X.X . . .",
150 "oO.O.-o- . -o .OoOo-oooXoOo. . . . X.XXXoX- X. . @ .-Xo+oX..O. @o-.O.O.Xo. . -.
    . @ .-oo+ooOo - . . .OXoXo+oX-o-",
151 ".o oOoXo-o- @o-oooo -Xo.o. o. .XXX.XXoXX. X. .o+oXoXoXoX. XoX-XoXo . . X .O.o -
    o+oo- oOoo-o-.- @oO.-XoXo+oXX.X .",
152 "O.-.o-oOoOoo -X-X-.-ooO. o. @ oXoX . X. X. .O. . @oX-.O. @ . . @ @ .-X.XoX. @o-
    XoX .-.o- @ oO.o @oXoX. .X. . X-o",
153 ".OoOoX-.o+o+o.ooo o .oo-Xo .o- .XXoX.XX. X. .+oXoX-X . -. .X-Xo . . . XoXoXoXoX
    oX-XoX +oXo+o. @o . Xo+oX .XXo. .",
154 "oo. @o +ooXo+oO- -.- .OoX.o- . . XoXoXX.XXXoX-.O. .-oXoXoX-Xo+o-X-X.X.Xo+ooXo+
    oX. . . . .oO. oX-X.O.XoX. .XXo+o",
155 "-X-o @ooX-oO. o.-o o- . .Oo -XoXoXo+oXoX . @ . . -XoXX-X--oXoXoXoXoX-X X .O.oXo
    X-Xo+o- @ +oXo+oXo-o. . .OXo. .oX",
156 "ooX-o @ o+o. . -oX-. -o+o @oXoXo+oX. X.XoXXoX-.O. .Xo+o. . -oX-X-o+oXX. . .OoO.
    . . . .o. . .oX-XoX- @ .. . .O.-",
157 "X-oX-. @ooOo-OoX-o-o-Xoo+o @o- @oX- .X-Xo+oXo+oo @oXoXoO. .XooXoXo. . .X-Xoo. .
    Oo. .-o+ . X-X-oX-Xo-. X.Xo. . ",
158 "-o+o @o @ . o.-o-o-o-oOoo@o oXo ooXo-XoXoX-Xo.O.- .O.XoXo+o-XoO.o -. .O. .XO.Oo
    oX-o- . . @ .oXo @o . X. X. @ .O",
159 "@ o@o @oo+o- - -o-o- o.O. o@ @o+.O. .o@oO.oO.Oo .- . @ @o . oXo @ . @ . . . . .
    - . .oO. . . .O.o-o+oX- . .XXXoXo",
160 "o@o @o @ o .O.o@ oOo-X-o-X- . .o .-X-Xo .- -o. @oX-. . . . @ .-XoXoXoXoXo+. . -
    o+o@ -. -XoXoXoO.Oo-Xo.-X. .oX.X.",
161 " ooXoOoo@ @oXo o-XoXo-XoXoo@oOo+oXo . @oO.o.O.- o-XoX-XoX-. . .oO.ooXoX-XoXo+.X
    oXooXo . . .O. . o-XoX-oX .XX. Xo",
162 ".O.- .- .- o+o@Xo@ @ .o-oO. -. @oO. oXooX- o+o.O.o+ooXoXo . .O. o @ .oXoXoXo .
    O.O.O. @o-XoXo.O.Oo.O.XooX.o .X. ",
163 " -oX-oX- .-Xo .- oXo.OoX-oo-Xo-oXo-X.-o+ooXo-oo-oOooX-XoX-X-XoXoXo. o@ @ .X.XoX
    oXooXoX X. .X. .o.-Xo .X-X .+oXXX",
164 "@oXo@ -.oOoo+o .-X- o o-. . -oX-o-oo XooOoo@ .OoXo@ oXo+o . oX- .Oo. .o .Oo @ -
    X-o+oX.XoXXoX-X .OXoX-XoX.oX.Xo. ",
165 "o -oo. -XoX-o.O. oo@ @oXooOo.Oo-oOo@o-oXo@ oo-.o-o @o+ooXo.-X-o-o. oXoO. .XoXo.
    oXooX .XX.O.XoXoXo. .o+oXoX . X.X",
166 ".-.OoO.o- -o+o-Xo+o . o-Xoo-oo-Xo.- o @oo oo o oO-. o. @oO. -o-o oXo.-Xo+oo+o -
    X-X-.X-X XXoXX. .+oOoXo.O.oX.Xo+o",
167 " oXo@oOo.-o o-. @o+o-o+ooO.OoOo-oOo.OooOo-o.-Xo@oo-.Ooo .o-ooo-o@ .o -oXoX. .o@
     ooXoXoXX..XX. . . .X-oXoXXoX .XoX",
168 "@o- oX- - @oOoo- oo+o o-. o@oo- o-o.O.o-Xo o-Xo -o @oOo- -o -o -o- @XoO.Oo@ Xo
    -.O.O.XoO. .XXoX.X .oXoX. X.Xo+o.",
169 ". .-X-o.- oo.O. @ .oOo- o @o @ .-oX- o-oo-o-Xoo .-o- .-o -o.oO-oo-oo -XooXoXo-X
    oO.oXoX. XoXX.X @ . XoXXX. @ .X .",
170 " - .- oO.- - o-o.Oo+o.o-.- -Xo- .-o @o@ - .oo .-ooO.o- -o-o-oo-oXo @oXo+o+o-XoO
    .oO. - . .O. X . XX. X@oXXXoX.oX-",
171 ".-. o@ ooO.o-. -oo.o - oOoo.oO.oOo@o -oo-oOo @oo- o-o o-o-o-Oo- @o-oX-XoX-oXo@o
    XoXo@Xo+. . .X.X. .X. XXoXoX. .oo",
172 "oX-o+o-X-. - -ooOoOo@ -.-oO-Xo @o oO.o-Xo o.oo -o-o-o-.oOo- o@o oXoX-oX-oo+oXoO
    o+o- oXo . .O. o .X X. .XXXo o- .",
173 "-oX-oo-.oOoo.o-oo@o -.oOo-oo @o @o@o- o- @o- -ooOo- o+o-. .-o .@ -. .O. @ o-oXo
    X-oXo@o-X-XoXoXX. .XX.XXXoX.o@o- ",
174 "X-o-X- o-.oOoo- - .-Xooo@ -.- .o - o-.O.ooOo-.-oo-o@oo oOoO.-o -.OoX-. oo-. @o-
    oX-o+oXoXo+oX-XooXoX $oXXX oo .oo",
175 ".Oo.-o-XoOooO. o.-oo - -oo -XoX-X.o+o o- o-.o- -o- oX-@ .oo -.O. . @ o@ -X-o @
    .O.ooOo+oXoXo. X. XoX.XXoX.-.oOo+",
176 " .- o -o-o-o- -oo-oOo.o-X-ooX-oXoO. -.-o.o- -o-oOo@o- oo- @o o. -.o @oXoooo+o @
     oO.O.oXo-X- -.O. .XoX :Xo o-o.-o",
```



```
177 "o-o-o@o -. -.o.- oo.-oOo. @ - @oXoX-o-o- o.-oOoo-o- o-. -o @ @ .oO- -o+o+o-. o
    .o-.oX-XoXooXoXoX. . .XX .oXoo -o",
178 "oOooOo-o-o-oOo-o-o - -o-Xo .o.oOo@ ooOoo-o- o@o-o-o-. -oo@o . .Oo.oOo@ o+o .Oo+
    o+o - o-X- -.Oo@ XX XX. .oXo.-o. ",
179 "o@o-o- @oOo-o oO.o-ooo- o@ @ - .oo-X-o--oXo--o - -. -oo+o - Oo-o -o@oo@ o@oO.oo
    Xo-. @oXo @oo. o@oX.XXX. oo- oOo-",
180 "o - -oo-oo---o-o - @o@o .oO.oOo+o-o-o-o---o--oo@ -oX@ o-oX-oXo@ . oOo @o .o @
    -Xo . .O.-oX- @ o+oXoXoX .O.o@oo+",
181 "-oOO.o-o- - oo-o@oOo-o -o-X-. -.o ooo-o-oo-oo--o -.o- o-oOooOo- -o@o-.- o@ @ .
    o o@ -oo . o.oo-Xoo . . .-o o @ o",
182 " .-. -oOo-o---o -oo-. @o @ ooO. - @- -oo--o- -o-o-. - .-Xo -X- Xo.Oo @ o@ oXooO.
    -X- . X-X-oX-XO.o-X-oO.oOoX-.o-o.",
183 "o-o @o -oX- .-oOoOoX- o@o-X@ .o+oo @o -ooOo-.- -oOo.-oo- -oo -X-o.-o -Xo-X-. .-
    oo@o-XooXO. .o X-o @oO.o-.o-Xo+o",
184 "O.-. .-.-oo- o@ooo-oo@ oOoooX- o-@o o@oOo-o - .-o@ - -Xo-X-X-.oO.Oo+ooo- o@ -Xo
    @ . X@ . .O. . @o .o - -o-oooO",
185 "oOo-o -ooOoo- o-X-o+oo-.o+o-. .- o @o-o. .-.o@ o -Xo. -Xooo@ oO.ooooo@o+oo@ o. -
    XoO.-XoXoXXoXoX- @oX- -.o.oO. @ o",
186 "o@oX-. -o--o.- -o-o- - o+ooO. -o-o-ooOo-- oO oX-oX- -.-o- @oOo.- -X- -oXo .- .
    .-XoXoXoXo. .-oXo -o.- -o .oo- .-",
187 "o -o-o-Xo- - -o@o o.-Xo@o -.o-Xo+ooOo-oo-o-.-X-X-oX-Xo -Xo- - o@ o@ .o- @o @o@
    oXoXoXo+oO. .Oo@XoX-ooo@oOoOo-oX",
188 "@o-o- o-o-o-oo- -.Oo -Xoo@ -Xo-ooOo@oo-oO.- o@ o-X-oo+o.- . - -Xo-Xo- -Xo @oo o
    +o@ . . o@o-o+o. o- o- - oo@oo@o-",
189 "oO.oo@-ooOooX-o-oO.-Xoo+o o.-XoOo@oo- -o-oOo+oo- o.OooOo.- .- o-oX-o.-Xo-Xo-X-.
    . -. @o+o . o- @oX.Xo.o-.O. -oO.",
190 "oo-X-o -X-oX-oXoXo .-Xo @o-X-oXo-o- --o-Xo-oo+oo@oO.o+. -XoO.o+o+oo+o-o+ooX-o o
    @ o. -Xo .-o-Xo. - oXoO. o .o-.o ",
191 "@ o-oOo@oo-o -o+o+oO.o+o -X- .-ooOo-oo-o-oX- o- o+oo+o . -.oOo-.oO.oO. o+o-Xo@
    o@ .O. . o+oo@ -. @o .o @oX-X- @o",
192 "o-.-Xo@ oOoX-Xo-. . . .X.oo+o -X-.o @o-o- -.o@o@oo+oo+.- -Xo.O .oO.o-o+oXo- -o
    XoO. . .+o o+ooXoXoX-X-. . . o. o",
193 ".Ooo-. -.Oo+o- oO. .XXo @ . ..o-o o.oO. .oX-oO. -oo+o oX-Xo@ o.- @ o+oO. o+o. @
    o+o. . . .+ooXo+oXoOoo ooXoX. @ .",
194 " .-X- @ o. oXo-.oO.Oo. . -X- +oXo@ - .o- -oo+o o@Oo.O.OoXoXoO.Oo. -. @ o. . -.
    oo+o+o@ . o.Oo+oX .-X.O.O. XoX .O",
195 ".Ooo@oo.O-.-oOo-o-oo . .O.oXoXoOooXo- @ @o+oo.- oXoXoX. @o-Xo-o@OoX- o.+ @ @ .
    @ o. . .-o+o-. .X. Xo -ooXoX-X. X",
196 "XoX- -X-o o+o.- o-o-.OoXo -.- .o+o-Xo@o.o-o@ O.o+o+oXo-Xo -o+o o.-oXo+ ooXo. o+
    o.O. . o . oXoXo +. .Xo+ XXoXXX.X",
197 "@ .oXo- .-ooOoo-oX- .oX-.oX- .OXoX.-XoX- Xo .- -ooo- @o -Xoo@o- @o @o. -.OoXo.
    O. .Xo+. -Xo-XoX. o+oX.X. .XXoX X",
198 "o o+o-Xo-X- @oO.Ooo@ .o . o.o@oX. XoX- .oX@oX-. .O. . o@ .o+o @ - .X Xo+o . @ .
    o@ .X X. @ .X. @ . .X XXXXX.XX. ",
199 ". . @ o.oOo. . o.- ooO.O.-XoX . X.XoXo.O. XoXoX @oX.O. . o+o@ .-. . @oO. . . .O
    . . . . . .XoX . .X-XoX. . . XoXX",
200 ". @ oXoX . .O.O. o.O.o -oXo+ooXo. . .XoX.X-Xo+. o+oO. .-Xo. o-X . XX . . @ @ .
    .OoXoX-XoX .X.X-XoXoXXoXoX. .XXX ",
201 "-o. .O. XX. XoXoXO. .Oo. . . .o+ @XoXXoXXXXoXoX.XoXoXoXoXo+o+ooXoXo.XoX .XoXoX-
    XoX-XoX. .+ X .XX.O.oX-X. .X .X. ",
202 " .O. . X. XXoXoX. . .Xo+o+o. @ . . Xo+. . .X-X- .Oo. @ .-XoXo-X-X-X .+o+oXXoXoX
    o@ . . XoXo. .XXoXoXoX. oXoXoXoXo",
203 "o o.- .oXXoXXoXX XXXXX. .oXoXoX-X.X. .XX.X XXoX. XX-X .Oo .O. -. o. oXoXoXo+oX-
    XoXo+oX-Xo+o+. .XXoX. . .- @o-X .",
204 "+.OoX- . .Xo . .X. .XX .X @ @ . oX X. . XX.. .X X.XoX. .+o+ooXo @ .+oXoXoXo @ o
    Xo+oXoXoX. XoX-XoX. +o+o .- o -XX",
205 "ooo-oXo+o oXoXX oXoX.XXXX.XXoX . .oXXXXX. -XoX.X.X . +. -XoOo+o@ . oX-XX-X-Xo.
    -Xo. . @ XoXo. -oO. . . @o @o@o. ",
206 "X- .Ooo @o+oXoX.XoXX .X$oXXXXoX@ . . .XXoXo .-X .XX@XoX-XoX. oXo @oX-XoX . - o+
    o. X-XoXo.O.O. .XoXoXo+o o-oo . .",
207 "Oo-oo+o.oOoXoX XoXoX.XXXXXoXoX. XX.X. .XXo+o .o+o. Xo-Xo. -X-X-oXoXo @ . @oX.oX
    oX-XoXoXo+oXo @ . @ .Oo. . @o+o -",
208 "o.o+oo - . .O.oXo @ oXoXoX. .X .XoX .O. o@ @oO.o @o.O. . X. . . @ @ . . @ oO. -
    Xo .oX-Xo . .O. -XoXo. .O. oOoX-.",
209 ".OooXoX-oO. . o+oXoXXXXX. X.O.XoXoX-XoX.- .O.o+oX @ . X-X-. -X-XoXo.O.XoXo.oXoX
    o-.Oo-oXo+ . .oXXoXoXo+oXXX.o.-o ",
210 " .oXoo-Xo. XoO. X. . . XX. .X . @ .oX.oXoX-. @ . . @ .XoXXo+ooX . . . XXoX .- -
    X .oXX- . .XoX . .o+oXoXooXo Xoo-",
211 "oXo @ oXoO. . .X XXXX.X. .X XXX. .O.- .XXoXo . @ @ . -XoXoOoX .Xo+oOo+oXX.XX. .
    o.OXo-XoXoXoXXX.O.O. . . . .O.oXoX",
212 "Xo+oo@ o-oXo . ..X.X X X. X.X. .+o-Xo+o-Xo+o+oXoXoXoX. XoX. @XoO. .oo@ .XXX X.X
     oX-XoX. .OX. XoXoXoXo . .O. . -o",
213 " -oXoo-o -o@ .X XX X.X.XXoX . .OoXo+oX. .Xo+oX-Xo+o+oX. @ .- . .X o+o . .XX. Xo
    X+o. . XoXXoXX. .XoXoXo+ . . .-Xo",
214 " .o-O.Oo-. oXXXXXoXXX . @ @o+ @oX-XoXo+o-XXoX.X . . .OoXoOoX- . .X-o.-o+ . Xo.X
```

```
    . XoXo+oX X. X. . oXoXoXo-X-XoX-",
"- . o-o-oOo+oXXoXXo.oX-oX- - o+o. +o. . @ oO.XX-o-XoX-. @ooXXXXX . . .XXo-o
.XX. .O. .XoX. .O.o .XXoXoooo+oX",
" .-o+o -.- .X .XoX-XoO. - .oXo+o.Oo+ .Xo+. .X@ . . X .OooO. oXX.Xo+oO.-O. . oOo@
oX X. . XoX .X- o @ -X. .O. @ ",
". oOo@o -XoX-XoX-XoX- @ oX-XoX- oXXXXoXXo . -XoXo. .+ooXXXo+XXXoX. .oOo+o.o o
-X.X @ XoXO.oXoXo@o . XoXoXoXo@ .",
" @o.Oo-Xo@ -. . . @ o+oo@ .Xo-Xo @ . . -.X@ . . @X-Xo X-Xo+. . .XoXoO.o . -X-X
ooO. . .+. Xo+oOo -Xo XoX-X-o X",
"X- .-Xo-oOooO. @ -o@ o-Xo.o-Xo.X- .oO.X. X Xo-@ . o- @oXoXoXoXoX .O.X. +o-. o.-
-oXoXoX o+oXoXXoo.oOo oXoXo-o-X ",
" .-XoX-X-o-.XoX-. .Oo@ .OoXoX-Xo O o oo@ .-Xo -o+oX. .O.O.O. @XoX. -X-oX-o@ O.
oXoXo+oX-XoXXXoXoOoO. -XoOoXoO. .",
" o--o+oo-X- -Xo+o- .oXooX @ o @oo @o@ o-Xo-.-Xo-XoXoXXoXoX-Xo-X-Xo. .-oXoXo.O
. @ . . . @ oXXoXo. o. o+oX-ooXoX",
".O. -oXoX-oXX. . X-o+o+o+oXo -XoX-XoOo-XoO. o- o-Xo+oX+ .Ooo+o. -X-- X-X-XoO.
. . - @ ooX.oX .O. -o+ooXoXXoO ",
" .o-Xo-X- .oXo+o+o.O. . oo @ . oXoX-o. -o.o --.o@ o+o . .X-.XoOoO.oo @o@ oXoXoX
-XXoXo- .O.Oo+o@ . -. oXooXo+oXoX",
"@ @ -oO.o@ -X- .o+ . . .X . -XoX.O. o-.oOoOoo-oOo-oo@oO. .X -Xo.oO.O.- oXo@ .O.
.oXoXo@ o-oXoXo @o -. .oO. oXoXo",
"o@oo.O.- o.Oo.o+ . . .X oXoXoXoX .o+oX-oX-.-o+ooO.O. -.O.O.Xo-+o .oo .-.O. . .
. .O.- o-.Oo-Xo+oXoXo+o .o-Xo-X- ",
"o X @ oX-X-oX-XoXoX. . .+oO.oXo@o -oOo.Ooo . o+oo-oo- ooXo -Xoo+o- @XoX . .O. @
@ o . @ o-Xo-XoXXXXX .XoXo-Xo .X",
"O.oXo.Oo-o @ oXoXoX-Xo+oXoX-XX .oXo.Oo. @oO.-o @ .O.-.Oo@ .o+ooXoXoX-X. . . .
oo+o@ .o-o -oXoXoXX .XoX- oo -X",
"-o+oOo@oX-oXoX-X-o+oX . .X . . oOo@ . @ -o o-Xo-.O.o o-oXo-Xo -Xo+o+oX . X. .-o
+ooXo-oO. .o+o-X-X.XoX . -Xo . .",
"Xoo@oOoo-X-o+oXoXo .oXX.X .XX . o. . .o-X-.-ooOoooX-.O. -o -o+oXo .oX-XoXo+o @
o+o-XoOo-. o-Xo oOoX .O. . oXoO.X",
"-XoO.o+o-oXoX- @-X-XX. XoXX .Xo@ . X- . -oOoO.o- @o Xo-. o.XoXo+o@ @ . .O. .Xo-
. . -.o+o @XoX-X.oXoX. Xo . oXXXX",
"X-. -o-XoOo@ .-oXoXoXX.XXoX. X . X. .- .o -oo-o-o- . . -XoO. . oXoXo @oX. . oX
.O.oX- o.OoXoXo @ @ .O. . .O.XoXo",
" .-Xo+oo+oXo-oXo-X.X . .XXoX.X . . -.- @o-o-oo-o-o+o+o @ .X +.- @ @oXo+oX.O.o+
ooOo-Xo+oo+oX-X. . .O. .XOX. XX-.",
".Oo @oOoo@oO.Oo+ooX. . XoXXXXoXX.XoXo .-o -oo+o-o-oXoXo. -XoXoXoXooX- . . X. .
.Oo@ooX- @o o.Oo+oXoXo+oX. X. . @",
"oo@o o.O.Oo.Xo+o-Xo .oooXoXoXXoo.Xo @o- -o--o-o- -oO.oOoXo+o+o+o-X- .-XoX.oXX X
X. o+oXo. -X- . . @ .XoXoXXX +oX ",
"+o @oOoo-o -Xo-ooO. - -.o . . . .oXooO.o-oo-o-o . . XoX-oO. . oX .o@ oX-X-XoXX.
Xo@ . +oXoXo+o-XoXoX-X-X. . o+oX",
"o@ooO.-X-XoXoO.O.oX-.o -o-Xo.Xoo -oOoo-oo--oOo+oO.O.Xo@ @oXoXo+o.OXo.O. ooXXX.
.oXo .-Xo-X-. . .O.XoXo. @ .-XoXo",
"@ -.oOoooO.- o-oo+o o-oX .oXoXX.XoX-.-o-o- o. o-o-ooO. ooXo+ . @ o- -. .XXoXXXo
X .XoXoX .OoX- @ . .O.O. o-XoXoX-",
"o-oO.o-X-oOo@X.+oo+. @ .oX @ . - -o-o -o -.O.-X-oOo-Xo@ @ X.Xo+o-X.oX .X XXXoXX
XXXX @ -. . -. .o+oXoXoO.+oXo@ -X",
"Oo@oO.Oo-.oOo oXoXoXoo@ .-XoXoX-.o+o-o--o-o Xo-o-o-oXo .XoXoXoo+ooX .XXXX.XXXoX
oXX.X .Xo+oXoX-X . .XoXo. .-X .oO",
"oOoo@o-ooO.oX@o+o+oX+ . Xo-oX-. @ o.Oo-o- ..O. -o-o-XX. X.Xo+o+o .O.XXXX X.XoXo
XoX XXX . . @ .XoX. +o+oX- .oX-Xo",
".o@ - -X-X @o . . . . .O.O. @ o- .-o-o-o-oOXo-Xo- @ .O.XoXX-Xoo-XoXX XX.XoX ooo
- ..XX.XX . .XX.XXX. X.XoXoX-Xo- ",
"O. -oXo-. . o+oXoXXX. -. o.Oo. .-o -o-o-oo. . .O. .oXoX . . -XoXoXXX.X X .oo.-
o-o-oX$XX. XXX$XX$XXXXXoX.Oo.-X.-",
" -oo@ - . o@ o-X@ .Xo+oX-X-oX-oX .OoXo-o-Xo+oXoXoXo+oO.Xo+o. -o+oXoX .Xo. - -X-
o-o oX XoXX$$$&#$X$X$XXXo .oOoOoX",
"@o-Oo@ -oXOoo+ooXoX-XoX . .OoX-o@ . @ . XoO. @XXXXo-XoXX. X-XoXXXXX.XoX o@ooooo
-Xo-. .XXXX$X%#&***$X$. .oO. .-oo",
"  .o+ooX-ooX-oX-o+oo-o-Xo@ooXoX-o @oXoXoXo.OoXoXoXo+o-. X. . Xo.o. oX-.oO XX. -
XoXX .XX$XX.$X$****$XXXoXo@o-oX- ");

}
\BGColor {grey45}
\FGColor {white}
\BDColor {grey20}
\
\name   {clock.mesg}
\parent {clock}
\class  {txtLabel}
\script {
        switch (arg[0]) {
        case "time":
```



```
                return currentLine();
        break;
        case "update":
                set("label", date());
                render();
                return;
        break;
        }
        usual();
}
\label {Tue Feb 18 16:55:16 1992}
\BGColor {grey30}
\FGColor {lightyellow}
\BDColor {grey20}
\font {usual_small}
\maxHeight {17}
\
```

```
\class {vpane}
\name {vwq}
\children {vwq.about vwq.email vwq.name vwq.org vwq.listP vwq.blank vwq.send}
\width {400}
\height {400}
\script {
        switch (arg[0]) {
        case "queryAddress":
                return "a viola app...";
        break;
        case "queryTitle":
                return "a viola app title...";
        break;
        case "queryIsIndex":
                return 0;
        break;
        case "expose":
                bell(2);
                send(self(), "config", x(), y(), width(), height());
        break;
        }
        usual();
}
\
\class {txtDisp}
\name {vwq.about}
\parent {vwq}
\content {\f(3)ViolaWWW User Survey\f(1)

Please take a few moments to fill out this
form for a users survey. Thanks.
}
\BGColor {LemonChiffon3}
\FGColor {black}
\
\class {hpane}
\name {vwq.email}
\parent {vwq}
\children {vwq.email.title vwq.email.entry}
\maxHeight {20}
\
\class {txtLabel}
\name {vwq.email.title}
\parent {vwq.email}
\label {Your E-Mail address:}
\paneConfig {eastToWest}
\maxWidth {150}
\BGColor {grey45}
\
\class {txtEdit}
\name {vwq.email.entry}
\parent {vwq.email}
\script {
        switch (arg[0]) {
        case "keyPress":
                c = key();
                switch (c) {
                case '\t':
                case '\r':
                        if (shiftKeyP()) vwq.send("focus");
                        else vwq.name.entry("focus");
                        return;
                break;
                default:
                        insert(c);
                        return;
                break;
                }
        break;
        case "contentP":
                return get("content");
        break;
        }
        usual();
}
```



```
\BGColor {LemonChiffon1}
\FGColor {black}
\CRColor {red}
\
\class {hpane}
\name {vwq.name}
\parent {vwq}
\children {vwq.name.title vwq.name.entry}
\maxHeight {20}
\
\class {txtEdit}
\name {vwq.name.entry}
\parent {vwq.name}
\script {
        switch (arg[0]) {
        case "keyPress":
                c = key();
                switch (c) {
                case '\t':
                case '\r':
                        if (shiftKeyP()) vwq.email.entry("focus");
                        else vwq.org.entry("focus");
                        return;
                break;
                default:
                        insert(c);
                        return;
                break;
                }
        break;
        case "contentP":
                return get("content");
        break;
        case "init":
/*bugged          set("content", pipe("whoami"));
*/
                tmpWhoAmI = makeTempFile();
                system(concat("whoami > ", tmpWhoAmI));
                set("content", trimEdge(loadFile(tmpWhoAmI)));
                system(concat("rm -f ", tmpWhoAmI));
/*
                set("content", pipe("whoami"));
                finfo = nthLine(pipe("finger `whoami`"), 1, 1);
                cidx = findPattern(finfo, "In real life: ");
                if (cidx != -1) {
                        set("content", nthChars(finfo, cidx, 999));
                } else {
                        set("content", "");
                }
*/
        break;
        }
        usual();
}
\BGColor {LemonChiffon1}
\FGColor {black}
\CRColor {red}
\
\class {txtLabel}
\name {vwq.name.title}
\parent {vwq.name}
\label {Your name:}
\paneConfig {eastToWest}
\maxWidth {150}
\BGColor {grey45}
\
\class {hpane}
\name {vwq.org}
\parent {vwq}
\children {vwq.org.title vwq.org.entry}
\maxHeight {100}
\BGColor {grey45}
\
\class {txtLabel}
\name {vwq.org.title}
```

```
\parent {vwq.org}
\label {Your organization:}
\paneConfig {eastToWest}
\maxWidth {150}
\maxHeight {20}
\BGColor {grey45}
\
\class {txtEdit}
\name {vwq.org.entry}
\parent {vwq.org}
\script {
        switch (arg[0]) {
        case "keyPress":
                c = key();
                if (c == '\t') {
                        if (shiftKeyP()) vwq.name.entry("focus");
                        else vwq.listP.check("focus");
                        return;
                } else {
                        insert(c);
                        return;
                }
        break;
        case "contentP":
                return get("content");
        break;
        }
        usual();
}
\BGColor {LemonChiffon1}
\FGColor {black}
\CRColor {red}
\
\class {hpane}
\name {vwq.listP}
\parent {vwq}
\children {vwq.listP.check vwq.listP.title}
\maxHeight {20}
\
\class {toggle}
\name {vwq.listP.check}
\parent {vwq.listP}
\script {
        switch (arg[0]) {
        case "keyPress":
                c = key();
                if (c == '\t') {
                        if (shiftKeyP()) vwq.org.entry("focus");
                        else vwq.blank("focus");
                        return;
                } else {
                        send(self(), "buttonRelease");
                        return;
                }
        break;
        case "contentP":
                if (get("toggleState") == 1)
                        return "viola-announce@xcf.berkeley.edu";
                else return "";
        break;
        }
        usual();
}
\style {check}
\maxWidth {18}
\BGColor {grey45}
\
\class {txtLabel}
\name {vwq.listP.title}
\parent {vwq.listP}
\label {Check to be added to viola-announce@xcf.berkeley.edu}
\script {
        switch (arg[0]) {
        case "buttonPress":
        case "buttonRelease":
```



```
                return send("vwq.listP.check", arg[0]);
        break;
        case "keyPress":
                c = key();
                if (c == '\t') {
                        if (shiftKeyP()) vwq.org.entry("focus");
                        else vwq.blank("focus");
                        return;
                } else {
                        vwq.listP.check("buttonRelease");
                        return;
                }
        break;
        }
        usual();
}
\font {normal}
\BGColor {grey45}
\
\class {txtEdit}
\name {vwq.blank}
\parent {vwq}
\content {Space for any comments you might have.}
\script {
        switch (arg[0]) {
        case "keyPress":
                c = key();
                switch (c) {
                case '\t':
                        if (shiftKeyP()) vwq.listP.check("focus");
                        else vwq.send("focus");
                        return;
                break;
                default:
                        insert(c);
                        return;
                break;
                }
        break;
/*      case "focus":
                mousePos = mouse();
                winPos = windowPosition();
                mx = mousePos[0];
                my = mousePos[1];
                dx = ((winPos[0] + width() / 2) - mx) / 10.0;
                dy = ((winPos[1] + height() / 2) - my) / 10.0;
                for (i = 0; i < 10; i = i + 1) {
                        mx = mx + dx;
                        my = my + dy;
                        setMouse(mx, my);
                }
                return;
        break;
*/
        case "contentP":
                return get("content");
        break;
        }
        usual();
}
\BGColor {LemonChiffon1}
\FGColor {black}
\CRColor {red}
\font {normal}
\
\class {txtButton}
\name {vwq.send}
\parent {vwq}
\label {Press to e-mail this off}
\script {
        switch (arg[0]) {
        case "buttonRelease":

                tmpUserInfo = makeTempFile();
                system(concat("whoami > ",
```

```
                                        tmpUserInfo));
                tmpWhoAmI = makeTempFile();
                system(concat("who am i > ", tmpWhoAmI));
/*bugged
                "User Info::: ", pipe("grep `whoami` /etc/passwd"), "\n"
                "WhoAmI::: ", pipe("who am i"), "\n",
*/

                tt = concat(
                        "**** Survey extract ***************\n",
                        "User email : ", vwq.email.entry("contentP"), "\n",
                        "User name  : ", vwq.name.entry("contentP"), "\n",
                        "Add to     : ", vwq.listP.check("contentP"), "\n",
                        "Organiz.   : ", vwq.org.entry("contentP"), "\n",
                        "Who_Am_I   : ", trimEdge(loadFile(tmpWhoAmI)), "\n",
                        "User Info  : ", trimEdge(loadFile(tmpUserInfo)), "\n",
                        "Comments   : ", vwq.blank("contentP"), "\n",
                        "************************************\n"
                        );
                print("\n\nIf this survey were for real, the following text woul
d be mailed:\n\n", tt, "\n\n");

                tmp = makeTempFile();
                saveFile(tmp, tt);
                system(concat(MAILER, " ", "-s survey ",
                                RECEIVER, " < ", tmp));

                system(concat("rm -f ", tmp,
                                " ", tmpUserInfo,
                                " ", tmpWhoAmI
                                ));
        break;
        case "keyPress":
                c = key();
                if (c == '\t') {
                        if (shiftKeyP()) vwq.blank("focus");
                        else vwq.email.entry("focus");
                        return;
                } else if (c == '\r') {
                        send(self(), "buttonRelease");
                        return;
                }
        break;
        case "init":
                RECEIVER = "pei@pebble";
                MAILER = "Mail";
        break;
        }
        usual();
}
\BGColor {grey45}
\BDColor {white}
\maxHeight {25}
\gapH {2}
\gapV {3}
\
```

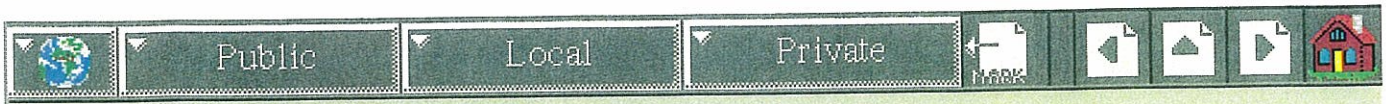
```
\class {field}
\name {vicon}
\parent {}
\width {66}
\height {34}
\maxWidth {66}
\maxHeight {34}
\children {vicon.starter vicon.bitmap}
\
\class {XPM}
\name {vicon.bitmap}
\parent {vicon}
\width {65}
\height {33}
\gapH {1}
\gapV {1}
\label {/* XPM */
static char * viola [] = {
"64 32 9 1",
"        c white",
".       c gray35",
"X       c gray30",
"o       c #cc6b57",
"O       c black",
"+       c #ecd5ba",
"@       c gray50",
"#       c #9b5948",
"$       c #34b3ba",
"                                                                ",
"                                                                ",
"  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX. ",
"  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX .",
"  XXX         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX. ",
"  XXX        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX .",
"  XXXX      X XXXXXXoooooooXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX. ",
"  XXXXX    X XXXXXoooooooooXXXXXoooooXXXXXXXXXXXXXXXXXXXXXXXXXX .",
"  XXXXXX X XXXXXoooooooooooXXoooooooXXXXXXXXXXXXXXXXXXXXXXXXX. ",
"  XXXXXXX XXXXXoooooOOooOOoooooooooooooXXXXXXXXXXXXXXXXXXXXXXX .",
"  XXXXXXXXXXXXoooooOooOOoooooooooooooooXXXXXXXXXXXXXXXXXXXXXX. ",
"  XXXXXXXXXXXXoooooooooooooooooooooooooXXXXXXXXXXXXXXXXXXXXXX .",
"  XXXXXXXXXXXXoOOOooooOooooooooooooooooXXXXXXXXXXXXXXXXXXXXX. ",
"  XXXXXXXXXXXXoOOO+o+o+O+o+o+oo+o@@O@@@@O@@@@O@@@@O@@@@OOOOXXX .",
"  XXXXXXXXXXXoOOOo+ooO+Ooo+oo+o++OO@O@@OOO@O@O@OO@O@OOOOOOOXXX. ",
"  XXXXXXXXXXXoOOO+o+o+O+o+o+oo+o+@@O@O@@@@O@@@@O@@@@O@@@@OOOXXX .",
"  XXXXXXXXXXXooOOooooooooooooooooooOOOOOOOOOOOOOOOOOOOOOOOOXXXXX. ",
"  XXXXXXXXXXXXXoooooooooooooooooooooooooXXXXXXXXXXXXXXXXXXXXXX .",
"  XXXXXXXXXXXX#ooooOooOOoooooooooooooooXXX$XXX$X$XX$XX$XXX$XXXX. ",
"  XXXXXXXXXXXXX#oooooooooooo##oooooooo#XXX$XXX$X$X$X$X$XX$X$XXX. ",
"  XXXXXXXXXXXXXX##oooooooo#######ooo##XXXX$XXX$X$X$X$X$XX$X$XXX .",
"  XXXXXXXXXXXXXXX###ooo####XXXX####XXXXXX$XXX$X$X$X$X$XX$X$XXX. ",
"  XXXXXXXXXXXXXXXX########XXXXXXXXXXXXXXXX$XXX$X$X$X$X$XX$X$XXX .",
"  XXXXXXXXXXXXXXXX#####XXXXXXXXXXXXXXXXXX$XXX$X$X$X$X$XX$$$XXX. ",
"  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$X$XX$X$X$X$XX$X$XXX .",
"  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$X$XX$X$X$X$XX$X$XXX. ",
"  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$XXX$XX$XX$$X$X$XXX .",
"  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX. ",
"  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX .",
"  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ",
" . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .";
}
\script {
        switch (arg[0]) {
        case "keyPress":
res.dialogWithButtons("show", "fobar fdsf", "OK", "");
        break;
        case "buttonPress":
                vicon.starter(arg[0]);
                return;
        break;
        }
        usual();
}
\
\class {menu}
```



```
\name {vicon.starter}
\parent {vicon}
\script {
        switch (arg[0]) {
        case "about":
                print("Viola is... \n");
        break;
        }
        usual();
}
\BGColor {grey45}
\FGColor {white}
\BDColor {grey45}
\font {usual_small}
\menuConfig {
.       {World Wide Web Browser},    {www("render");}
.       {The Internet Catalog Resource Catalog},      {twi("render");}
.       {User Survey},               {vwq("render");}
.       {Clock},                     {clock("render");}
}
\content {
.     {Applications}
..      {World Wide Web Browser},    {www("render");}
..      {The Internet Catalog Resource Catalog},      {twi("render");}
..      {User Survey},               {vwq("render");}
..      {Clock},                     {clock("render");}

.     {Tools}
..      {Interpreter Shell},         {shell("render");}
..      {Object Editor},             {edit("render");}
..      {Font Selector},             {fontSelector("render");}
..      {Color Selector},            {colorSelector("render");}
..      {Samples},                   {samples("render");}
..      {Resource},                  {res("render");}

.     {About Viola},                 {vicon.starter("about");}
}
\
```



ViolaWWW Notes

ViolaWWW Alpha Release Notes

This is an alpha release of violaWWW. The primary intent of this release is to provide a demo for the Design team to evaluate, to provide user interface feedbacks, etc. The general look & feel is expected to be *Motif*'ed soon.

As is, this browser has trouble working with the HTML documents from the network, unless they have the necessary SGML document type declaration. This problem is being dealt with. Meanwhile, you can try out the documents listed below.

A few things to try out:

Under the rotating globe menu, the ViolaWWW ''about'' and ''help'' documents are fairly good representative of HMML.

Under the *Local* bookmarks menu:

gnnElements.hmml

A demo GNN header logo thingy.

testAll.html

Sample of HTML document.

violaBrief.hmml

A very long (too long) and **drafty** document on viola. Has embedded GUIs.

InternetRC (all)

An even longer document. Practically the whole InetRC catalog section.

Art Gallery

Was a demo for GIF, but the GIF code used in viola is broken... So the pictures in it are now temporarily in XBM.

violaChier.hmml

Shows a tree graph, with hot-link tree nodes.

Doodle

A doodling "program" as WWW "doc".

Viola Survey

Message:

URL: file://client/home/wei/viola/docs/README_alpha.hmml

ViolaWWW Notes

violaBrief.hmml

A very long (too long) and **drafty** document on viola. Has embedded GUIs.

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Art Gallery

Was a demo for GIF, but the GIF code used in viola is broken... So the pictures in it are now temporarily in XBM.

violaChier.hmml

Shows a tree graph, with hot-link tree nodes.

Doodle

A doodling "program" as WWW "doc".

Viola Survey

Demos a fill-in/mail-out forms. Currently implemented as viola object, but will be abstracted to be portable SGML, as in <ENTRY>. A related idea is the ORA Book Order Demo.

Wave

Sine wave ploting as WWW doc. Just a GUI toy, but demonstrates WWW as transport infrastructure not just for static documents.

Clock

A real working time telling clock as WWW ''doc''.

testPlot.hmml

Demos a highly cool wire-frame ploting widget embeded in a document. **If you try this, you must exit viola properly (do not exit viola with control-C), else the X server will be anguished.**

Please ignore the *Public* and *Private* bookmarks for now.

Well, development continues! If you have any comments, suggestions, bug-reports, whatever, at all, please feel free to send them my way.

Pei

pei@ora.com

Test misc

Header 1

Header 2

Header 3

See the motd for useless messages.

```
LISTING   HTML_listing   0     0 10 10 25
TITLE     HTML_title     0     0 10 10 25
```

Here is an ordered list:

1. socks
2. scarf
3. pillows

And an unordered list.

- rubber ball.
- I recollect that, when a stripling, my first exploit in squirrel-shooting was in a grove of tall walnut-trees that shades one side of the valley. I had wandered into it at noontime, when all nature is peculiarly quiet, and was startled by the roar of my own gun, as it broke the Sabbath stillness around and was prolonged and reverberated by the angry echoes.
- If ever I should wish for a retreat whither I might steal from the world and its distractions, and dream quietly away the remnant of a troubled life, I know of none more promising than this little valley.

Definition lists:

First term

: Definition paragraph starts here.

Second term

: Second definition paragraph starts here.

Menu

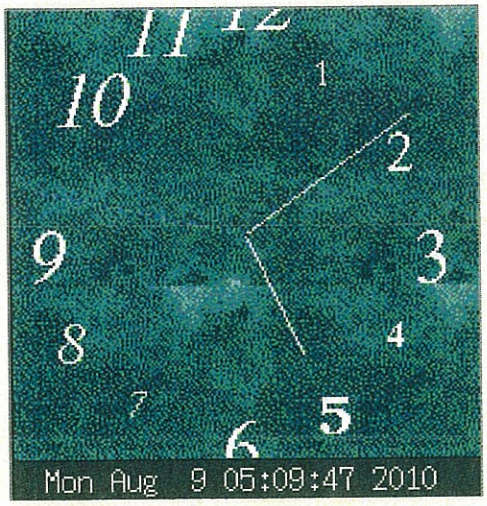
Test

List No. 5

The <VOBJF> tag can be used to insert viola applications. Using this capability allows you embed in your document what you can access or build using viola's programming, and GUIs. Of course too much violaism reduces the portability of your document on the World Wide Web, but anyway...

Here are some examples.

Clock



Vicon

This can be a handy menu to tuck away at a corner of the screen.

Query

ViolaWWW User Survey

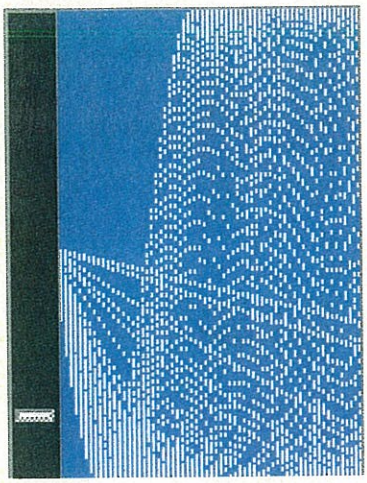
Please take a few moments to fill out this form for a users survey. Thanks.

Your E-Mail address:

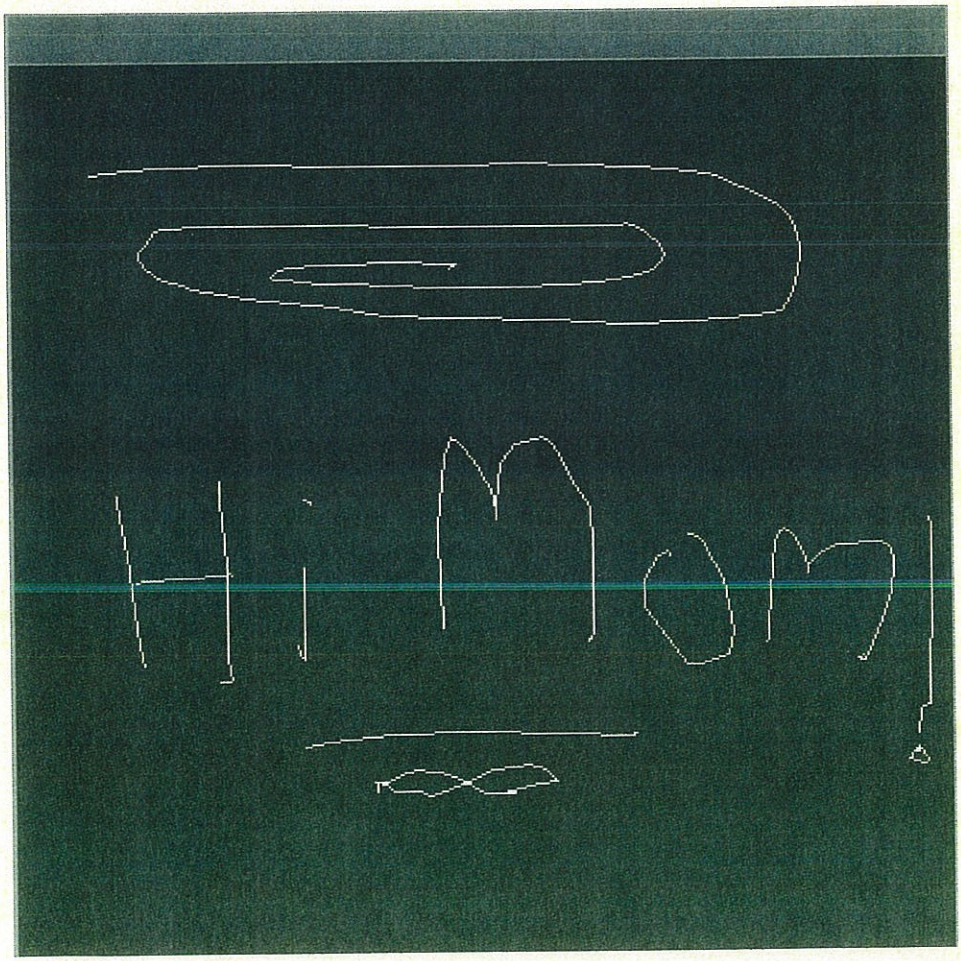
Public Local Private

Test

Wave fun



Noodle Doodles



No Search reload SRC FILE

Message:

URL: file://client/home/wei/viola/docs/violaApps.hmml

RandoMyster's Waves

Title

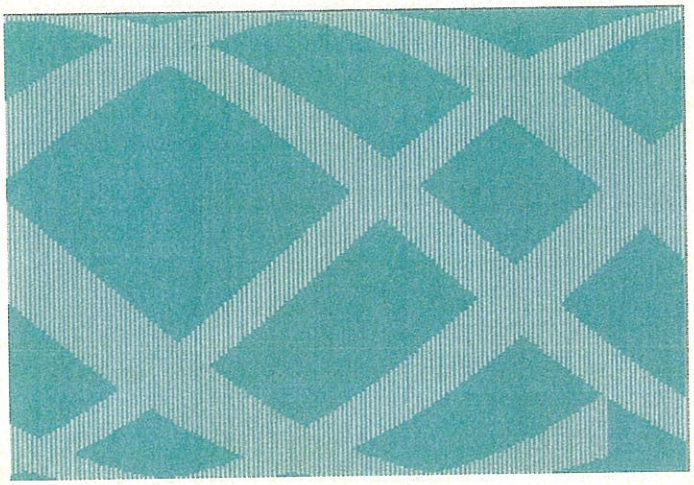
Brush Motion

Artist

Rando "random art does not apologize" Myster

Date

1993, March 7, before breakfast



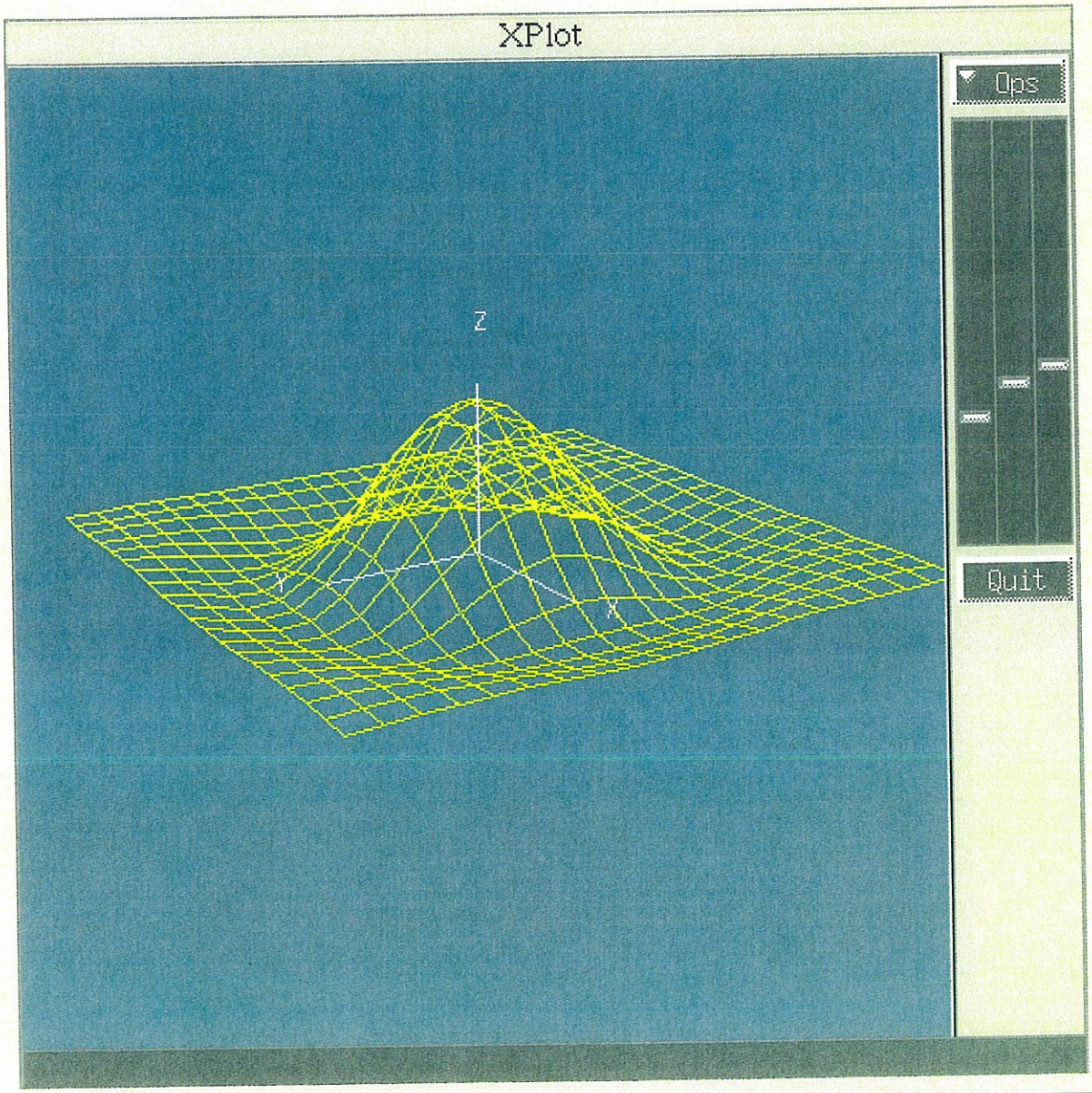
New Color

Warning: playing with color too much will take all the color resources... (Yes, this is a bug).

An equation and vector–objects plotting program

The xplot program was written by Scott Silvey at the Experimental Computing Facility of UCB. In an experiment, xplot was made accessible by other program, such as viola.

Here's a viola front-end to xplot, which is embedded into *this* document.



XPlot

An equation and vector–objects plotting program

The xplot program was written by Scott Silvey at the Experimental Computing Facility of UCB. In an experiment, xplot was made accessible by other program, such as viola.

Here's a viola front-end to xplot, which is embedded into *this* document.