

```
/* 12 dicembre 2007. Martina, Marina, Ivan.  
Haction assemblaggio  
*/
```

```
////////////////////////////////////  
// Names Of Graphics & How Load Them  
////////////////////////////////////
```

```
PImage backgroundP;  
PImage ok;  
PImage back;  
PImage send;  
PImage write;
```

```
PImage hacktion;  
PImage hcktion;  
PImage a2;  
PImage a3;  
PImage a4;  
PImage a7;  
PImage a9;  
PImage a12;  
PImage a14;
```

```
PImage startLogin;  
PImage startSignup;  
PImage stariconFocus;
```

```
PImage loginUser;  
PImage loginPsw;  
PImage loginForgot;  
PImage loginText;
```

```
PImage userName;  
PImage userPoint;  
PImage userAvatar;  
PImage userOnline;  
PImage userOffline;  
PImage userHack;  
PImage userCanovaccio;  
PImage userBot;
```

```
PImage newI;  
PImage new_othI;  
PImage othI;  
PImage oth_oldI;  
PImage oldI;  
PImage old_newI;
```

```
PImage wall;  
PImage stick;  
PImage shadow;  
PImage avA;  
PImage avB;  
PImage avC;
```

```
PImage newTitle;  
PImage newWhen;  
PImage newWhere;  
PImage newBox;
```

```
PImage newBdesc;  
PImage newBbox;  
PImage newBimage;  
PImage newImage;
```

```
PImage txt;  
PImage txt2;  
PImage txtW;  
PImage msgBox;
```

```
PImage mose;  
PImage ins;
```

```
PImage partecipate;
```

```
PFont font;// Declare font
```

```
String nickname = " ";
String password = " ";
String title = " ";
String where = " ";
String when = " ";
String description = " ";
String wmsg = " ";

String textToSend = " "; // variable to store the text (string) to be sent
```

```
void loadImages()
{
    backgroundP = loadImage ("bg3.png");
    ok = loadImage ("ok.png");
    back = loadImage ("back.png");
    send = loadImage ("send.png");
    write = loadImage ("writeMsg.png");
    hacktion = loadImage ("hacktion.png");
    hcktion = loadImage ("hction.png");
    a2 = loadImage ("a2.png");
    a3 = loadImage ("a3.png");
    a4 = loadImage ("a4.png");
    a7 = loadImage ("a7.png");
    a9 = loadImage ("a9.png");
    a12 = loadImage ("a12.png");
    a14 = loadImage ("a14.png");
    startLogin = loadImage ("login.png");
    startSignup = loadImage ("signup.png");
    stariconFocus = loadImage ("star.png");
    loginUser = loadImage ("iconaUser.png");
    loginPsw = loadImage ("iconaKey.png");
    loginForgot = loadImage ("forgot.png");
    loginText = loadImage ("boxLoginSignup.png");
    userName = loadImage ("name.png");
    userPoint = loadImage ("points.png");
    userAvatar = loadImage ("boxAvatar.png");
    userOnline = loadImage ("online.png");
    userOffline = loadImage ("offline.png");
    userHack = loadImage ("hacktions.png");
    userCanovaccio = loadImage ("canovacio.png");
    userBot = loadImage ("button.png");
    newl = loadImage("new.png");
    new_othl = loadImage("beforeNew.png");
    othl = loadImage("current.png");
    oth_oldl = loadImage("beforeOthers.png");
    oldl = loadImage("old.png");
    old_newl = loadImage("beforeOld.png");
    wall =loadImage ("bg4.png");
    stick = loadImage ("sticker.png");
    shadow = loadImage ("ombra.png");
    newTitle = loadImage ("title.png");
    newWhen = loadImage ("when.png");
    newWhere = loadImage ("where.png");
    newBox = loadImage ("boxDefault.png");
    newBdesc = loadImage ("description.png");
    newBbbox = loadImage ("boxDescription.png");
    newImage = loadImage ("image.png");
    msgBox = loadImage ("boxMsg.png");
    avA = loadImage ("avA.png");
    avB = loadImage ("avB.png");
    avC = loadImage ("avC.jpg");
    txt = loadImage ("txt_a.png");
    txt2 = loadImage ("txt_b.png");
    txtW = loadImage ("txt_c.png");
    mose = loadImage ("mo.png");
    ins = loadImage("ins.png");
    partecipate = loadImage("participate.png");
}
```

```
////////////////////////////////////
// Screen Drawing Functions
////////////////////////////////////
```

```

int moove = 0;

// function to draw the menu with specified focus
int startIconFocusX = 20 ; // begin with startIconFocus X at Login X
int startIconFocusY = 50 ; // begin with startIconFocus Y at Login Y

int slideX=-415; // Image initial position_X

void drawAnima ()
{
    image(backgroundP, 0, 0);

    moove = moove + 15;

    if (moove < 10)
    {
        image(hacktion,0,60);
    }
    if (moove >= 10 && moove < 20)
    {
        image(hcktion,0,60);
        image(a2,33,90);
    }
    if (moove >= 20 && moove < 30)
    {
        image(hcktion,3,63);
        image(a3,33,93);
    }
    if (moove >= 30 && moove < 40)
    {
        image(hcktion,-1,59);
        image(a4,28,79);
    }
    if (moove >= 40 && moove < 50)
    {
        image(hcktion,2,58);
        image(a7,22,78);
    }
    if (moove >= 50 && moove < 60)
    {
        image(hcktion,0,60);
        image(a9,20,77);
    }
    if (moove >= 60 && moove < 70)
    {
        image(hcktion,0,60);
        image(a12,15,70);
    }
    if (moove >= 70 && moove < 80)
    {
        image(hcktion,-2,62);
        image(a14,12,62);
    }
    if (moove >= 80 && moove < 90)
    {
        image(hcktion,0,60);
        image(a14,10,60);
    }
    if (moove >= 90 && moove < 100)
    {
        image(hcktion,2,63);
        image(a12,17,73);
    }
    if (moove >= 100 && moove < 110)
    {
        image(hcktion,-1,60);
        image(a9,19,77);
    }
    if (moove >= 110 && moove < 120)
    {
        image(hcktion,1,58);
        image(a7,21,78);
    }
    if (moove >= 120 && moove < 130)
    {
        image(hcktion,-3,60);
        image(a4,25,80);
    }
}

```

```

if (moove >= 130 && moove < 140)
{
    image(hcktion,0,62);
    image(a3,30,92);
}
if (moove >= 140 && moove < 200)
{
    image(hcktion,0,60);
    image(a2,33,90);
}
}

void drawStart(int focus)
{
    image (backgroundP, 0, 0); // draw background image for the menu area
    image (ok,145,175);
    image (back,8,184);
    image (startLogin, 50, 60); // draw login
    image (startSignup, 50, 90); // draw signup

    // calculate position of focus highlight for the icon in focus
    if(focus == STARTFOCUS_LOGIN){ // if we are focused on login
        starlconFocusX = 25;
        starlconFocusY = 60;
    }
    else if(focus == STARTFOCUS_SIGNUP){ // if we are focused on signup
        starlconFocusX = 25;
        starlconFocusY = 90;
    }
    image (starlconFocus,starlconFocusX,starlconFocusY);
}

void drawLogin(int focus)
{
    image (backgroundP,0,0);
    image (ok,145,175);
    image (back,8,184);
    image (loginUser,27,67);
    image (loginPsw,29,115);
    image (loginForgot,29,140);
    if(focus == LOGINFOCUS_USER){
        starlconFocusX = 8;
        starlconFocusY = 70;
    }
    else if(focus == LOGINFOCUS_PSW){ // if we are focused on psw
        starlconFocusX = 8;
        starlconFocusY = 110;
    }
    else if(focus == LOGINFOCUS_FORGOT){ // if we are focused on forgot
        starlconFocusX = 8;
        starlconFocusY = 140;
    }
    image (starlconFocus,starlconFocusX,starlconFocusY);
    image (loginText,63,70);
    image (loginText,63,110);
}

void drawNickname()
{
    nickname = textInput("INSERT YOUR NICKNAME", "", 20); // Get the string from the device input method
}

void drawPassword()
{
    password = textInput("INSERT YOUR PASSWORD", "", 20); // Get the string from the device input method
}

void drawTre()
{
    image (backgroundP,0,0);
}

void drawUser(int focus, int stat)
{
    image (backgroundP,0,0);
}

```

```

image (ok,145,175);
image (back,8,184);
image (userName,20,20);
image (userPoint,20,40);
image (userAvatar,90,20);
image (userBot,40,100);
image (userBot,40,130);
image (userBot,40,160);
image (userHack,50,133);
image (userCanovaccio,45,163);
if (stat == STATUS_ON)
{
    image (userOnline,65,103);
}
else if (stat == STATUS_OFF)
{
    image (userOffline,65,103);
}
if(focus == USERFOCUS_STATUS){
    starlconFocusX = 15;
    starlconFocusY = 103;
}
else if(focus == USERFOCUS_HACK){ // if we are focused on psw
    starlconFocusX = 15;
    starlconFocusY = 133;
}
else if(focus == USERFOCUS_CAN){ // if we are focused on forgot
    starlconFocusX = 15;
    starlconFocusY = 163;
}
image (starlconFocus,starlconFocusX,starlconFocusY);
}

void drawHack(int focus)
{
    image (backgroundP,0,0);
    image (ok,145,175);
    image (back,8,184);
    if (focus == IDEAFOCUS_NEW)
    {
        image (newl,20,20);
    }
    if (focus == IDEAFOCUS_NEOT)
    {
        image (new_othl,20,50);
    }
    if (focus == IDEAFOCUS_OTHER)
    {
        image (othl,20,20);
    }
    if (focus == IDEAFOCUS_OTOL)
    {
        image (oth_oldl,20,50);
    }
    if (focus == IDEAFOCUS_OLD)
    {
        image (oldl,20,20);
    }
    if (focus == IDEAFOCUS_OLNE)
    {
        image (old_newl,20,50);
    }
}

void drawWall (int focus)
{
    if(focus == WALLFOCUS_C)
    {
        slideX=slideX;
    }
    else if (focus == WALLFOCUS_P)
    {
        slideX=slideX-15;
        slideX = constrain(slideX,(width-wall.width),0); // Prevent image from panning beyond width
        //selectX=selectX+10;
    }
    else if (focus == WALLFOCUS_M)
    {

```

```
slideX=slideX+15;
slideX = constrain(slideX,(width-wall.width),0);
}
```

```
image(wall,slideX,0);
```

```
int stXa = slideX+500;
int stYa = 120;
int stXb = slideX+550;
int stYb = 40;
int stXc = slideX+400;
int stYc = 70;
int stXd = slideX+470;
int stYd = 20;
int stXe = slideX+330;
int stYe = 110;
int stXf = slideX+300;
int stYf = 15;
int stXg = slideX+250;
int stYg = 90;
int stXh = slideX+600;
int stYh = 115;
int stXi = slideX+630;
int stYi = 10;
int stXl = slideX+680;
int stYl = 90;
int stXm = slideX+715;
int stYm = 20;
int stXn = slideX+760;
int stYn = 120;
```

```
image(stick,stXa,stYa);
image(avC,stXa+3,stYa+5);
image(stick,stXb,stYb);
image(avC,stXb+6,stYb+4);
image(stick,stXc,stYc);
image(avB,stXc+6,stYc+3);
image(stick,stXd,stYd);
image(avA,stXd+3,stYd+5);
image(stick,stXe,stYe);
image(avA,stXe+3,stYe+3);
image(stick,stXf,stYf);
image(avB,stXf+6,stYf+4);
image(stick,stXg,stYg);
image(avC,stXg+6,stYg+3);
image(stick,stXh,stYh);
image(avA,stXh+3,stYh+5);
image(stick,stXi,stYi);
image(avB,stXi+6,stYi+4);
image(stick,stXl,stYl);
image(avC,stXl+6,stYl+3);
image(stick,stXm,stYm);
image(avA,stXm+3,stYm+5);
image(stick,stXn,stYn);
image(avB,stXn+6,stYn+4);
```

```
if(stXa >= ((width / 2)-40)){
  if(stXa <= ((width / 2)-10)){
    image(shadow,stXa,stYa);
  }
}
```

```
if(stXb >= ((width / 2)-40)){
  if(stXb <= ((width / 2)-10)){
    image(shadow,stXb,stYb);
  }
}
```

```
if(stXc >= ((width / 2)-40)){
  if(stXc <= ((width / 2)-10)){
    image(shadow,stXc,stYc);
  }
}
```

```
if(stXd >= ((width / 2)-40)){
  if(stXd <= ((width / 2)-10)){
    image(shadow,stXd,stYd);
  }
}
```

```

}

if(stXe >= ((width / 2)-40)){
  if(stXe <= ((width / 2)-10)){
    image(shadow,stXe,stYe);
  }
}

if(stXf >= ((width / 2)-40)){
  if(stXf <= ((width / 2)-10)){
    image(shadow,stXf,stYf);
  }
}

if(stXg >= ((width / 2)-40)){
  if(stXg <= ((width / 2)-10)){
    image(shadow,stXg,stYg);
  }
}

if(stXh >= ((width / 2)-40)){
  if(stXh <= ((width / 2)-10)){
    image(shadow,stXh,stYh);
  }
}

if(stXi >= ((width / 2)-40)){
  if(stXi <= ((width / 2)-10)){
    image(shadow,stXi,stYi);
  }
}

if(stXl >= ((width / 2)-40)){
  if(stXl <= ((width / 2)-10)){
    image(shadow,stXl,stYl);
  }
}

if(stXm >= ((width / 2)-40)){
  if(stXm <= ((width / 2)-10)){
    image(shadow,stXm,stYm);
  }
}

if(stXn >= ((width / 2)-40)){
  if(stXn <= ((width / 2)-10)){
    image(shadow,stXn,stYn);
  }
}
image(ok,145,175);
image(back,8,184);
}

void drawNew(int focus)
{
  image(backgroundP,0,0);
  image(ok,145,175);
  image(back,8,184);
  image(newBox,40,58);
  image(newBox,40,98);
  image(newBox,40,138);
  image(newTitle,40,40);
  image(newWhen,40,80);
  image(newWhere,40,120);
  if(focus == USERFOCUS_STATUS){
    starlconFocusX = 15;
    starlconFocusY = 40;
  }
  else if(focus == USERFOCUS_HACK){ // if we are focused on psw
    starlconFocusX = 15;
    starlconFocusY = 80;
  }
  else if(focus == USERFOCUS_CAN){ // if we are focused on forgot
    starlconFocusX = 15;
    starlconFocusY = 120;
  }
  image(stariconFocus,starlconFocusX,starlconFocusY);
}

```

```

void drawTitle()
{
    title = textInput("INSERT TITLE", "", 20); // Get the string from the device input method
}

void drawWhere()
{
    where = textInput("INSERT A PLACE", "", 20); // Get the string from the device input method
}

void drawWhen()
{
    when = textInput("INSERT DATE & H", "", 20); // Get the string from the device input method
}

void drawNewB (int focus)
{
    image (backgroundP,0,0);
    image (send,130,184);
    image (back,8,184);
    image (newBdesc,30,5);
    image (newBbox,7,23);
    image (newImage,30,120);
    image (userAvatar,83,125);
    if(focus == USERFOCUS_STATUS){
        starIconFocusX = 10;
        starIconFocusY = 5;
    }
    else if(focus == USERFOCUS_HACK){
        starIconFocusX = 10;
        starIconFocusY = 120;
    }
    image (starIconFocus,starIconFocusX,starIconFocusY);
}

void drawDescription()
{
    description = textInput("INSERT THE DESCRIPTION", "", 80); // Get the string from the device input method
}

void drawSticker()
{
    image (backgroundP,0,0);
    image (write,70,184);
    image (back,8,184);
    image (userName,20,17);
    image (userPoint,20,37);
    image (userAvatar,90,17);
    image (avA,93,20);
    image (newBbox,7,87);
    image (txt,12,90);
}

void drawStickerB()
{
    image (backgroundP,0,0);
    image (write,70,184);
    image (back,8,184);
    image (userName,20,17);
    image (userPoint,20,37);
    image (userAvatar,90,17);
    image (avC,95,21);
    image (newBbox,7,87);
    image (txt2,12,90);
}

void drawMsg()
{
    image (backgroundP,0,0);
    image (send,130,184);
    image (write,15,10);
    image (msgBox,7,30);
}

void drawWmsg()
{
    wmsg = textInput("WRITE A MSG", "", 160); // Get the string from the device input method
}

```



```

}

void drawSms()
{
    image (backgroundP,0,0);
    image (send,130,184);
    image (write,15,10);
    image (msgBox,7,30);
    if(textToSend != " ") // if text has been entered...
    {
        text(textToSend, 15, 50); // draw the text the user entered (on top of the field)
    }
}

void drawWallO (int focus)
{
    if(focus == WALLFOCUS_C)
    {
        slideX=slideX;
    }
    else if (focus == WALLFOCUS_P)
    {
        slideX=slideX-15;
        slideX = constrain(slideX,(width-wall.width),0); // Prevent image from panning beyond width
        //selectX=selectX+10;
    }
    else if (focus == WALLFOCUS_M)
    {
        slideX=slideX+15;
        slideX = constrain(slideX,(width-wall.width),0);
    }

    image(wall,slideX,0);

    int stXa = slideX+503;
    int stYa = 120;
    int stXb = slideX+550;
    int stYb = 40;
    int stXc = slideX+400;
    int stYc = 70;
    int stXd = slideX+470;
    int stYd = 20;
    int stXe = slideX+330;
    int stYe = 110;
    int stXf = slideX+300;
    int stYf = 15;
    int stXg = slideX+250;
    int stYg = 90;
    int stXh = slideX+600;
    int stYh = 115;
    int stXi = slideX+630;
    int stYi = 10;
    int stXl = slideX+680;
    int stYl = 90;
    int stXm = slideX+715;
    int stYm = 20;
    int stXn = slideX+760;
    int stYn = 120;

    image(stick,stXa,stYa);
    image(ins,stXa+3,stYa+5);
    image(stick,stXb,stYb);
    image(mose,stXb+6,stYb+4);
    image(stick,stXc,stYc);
    image(stick,stXd,stYd);
    image(mose,stXd+6,stYd+5);
    image(stick,stXe,stYe);
    image(stick,stXf,stYf);
    image(stick,stXg,stYg);
    image(stick,stXh,stYh);
    image(stick,stXi,stYi);
    image(stick,stXl,stYl);
    image(stick,stXm,stYm);
    image(stick,stXn,stYn);

    if(stXa >= ((width / 2)-40)){
        if(stXa <= ((width / 2)-10)){
            image(shadow,stXa,stYa);
        }
    }
}

```

```

}
}

if(stXb >= ((width / 2)-40)){
  if(stXb <= ((width / 2)-10)){
    image(shadow,stXb,stYb);
  }
}

if(stXc >= ((width / 2)-40)){
  if(stXc <= ((width / 2)-10)){
    image(shadow,stXc,stYc);
  }
}

if(stXd >= ((width / 2)-40)){
  if(stXd <= ((width / 2)-10)){
    image(shadow,stXd,stYd);
  }
}

if(stXe >= ((width / 2)-40)){
  if(stXe <= ((width / 2)-10)){
    image(shadow,stXe,stYe);
  }
}

if(stXf >= ((width / 2)-40)){
  if(stXf <= ((width / 2)-10)){
    image(shadow,stXf,stYf);
  }
}

if(stXg >= ((width / 2)-40)){
  if(stXg <= ((width / 2)-10)){
    image(shadow,stXg,stYg);
  }
}

if(stXh >= ((width / 2)-40)){
  if(stXh <= ((width / 2)-10)){
    image(shadow,stXh,stYh);
  }
}

if(stXi >= ((width / 2)-40)){
  if(stXi <= ((width / 2)-10)){
    image(shadow,stXi,stYi);
  }
}

if(stXl >= ((width / 2)-40)){
  if(stXl <= ((width / 2)-10)){
    image(shadow,stXl,stYl);
  }
}

if(stXm >= ((width / 2)-40)){
  if(stXm <= ((width / 2)-10)){
    image(shadow,stXm,stYm);
  }
}

if(stXn >= ((width / 2)-40)){
  if(stXn <= ((width / 2)-10)){
    image(shadow,stXn,stYn);
  }
}
}
image (ok,145,175);
image (back,8,184);
}

```

```

void drawStickerWall()
{
  image (backgroundP,0,0);
  image (partecipate,70,184);
  image (back,8,184);
  image (newTitle,20,17);
}

```

```

image (newWhere,20,37);
image (newWhen,20,57);
image (userAvatar,90,17);
image (mose,94,24);
image (newBbox,7,87);
image (txtW,12,90);
}

```

```

////////////////////////////////////////////////////////////////////////////////////////////////////////////////
// Setup, Executes Once When Started, Prepares Program to Run (Logic Initialization)
////////////////////////////////////////////////////////////////////////////////////////////////////////////////

```

```

import processing.phone.*; // import phone library to go fullscreen
import processing.messaging.*; // import messaging library to send a message

```

```

Phone myPhone;          // named reference to phone instance
Messenger m;            // named reference to messenger instance

```

```

void setup() // happens only once, when the program starts...

```

```

{
  // go fullscreen
  myPhone = new Phone(this); // create new phone instance/controller
  myPhone.fullscreen();     // tell phone to go fullscreen

  m = new Messenger(this);

  loadImages(); // load images
  font = loadFont("Futura-Medium-14.mvbw", color(0,0,0)); // Load the font file from the data folder
  textFont(font); // Use the font for rendering text
}

```

```

////////////////////////////////////////////////////////////////////////////////////////////////////////////////
// Mode, Focus & Option Names (Constants)
////////////////////////////////////////////////////////////////////////////////////////////////////////////////

```

```

int MODE_ANIMA = 0;
int MODE_START = 1;
int MODE_LOGIN = 2;
int MODE_NICKNAME = 3;
int MODE_PASSWORD = 4;
int MODE_USER = 5;
int MODE_TRE = 6;
int MODE_HACK = 7;
int MODE_WALL = 8;
int MODE_NEW = 9;
int MODE_TITLE = 10;
int MODE_WHERE = 11;
int MODE_WHEN = 12;
int MODE_NEWB = 13;
int MODE_DESCRIPTION = 14;
int MODE_STICKER = 15;
int MODE_STICKERB = 16;
int MODE_MSG = 17;
int MODE_WMSG = 18;
int MODE_SMS = 19;
int MODE_WALLO = 20;
int MODE_STICKWALL = 21;

```

```

int STARTFOCUS_LOGIN = 0;
int STARTFOCUS_SIGNUP = 1;
int LOGINFOCUS_USER = 0;
int LOGINFOCUS_PSW = 1;
int LOGINFOCUS_FORGOT = 2;
int USERFOCUS_STATUS = 0;
int USERFOCUS_HACK = 1;
int USERFOCUS_CAN = 2;
int STATUS_ON = 0;
int STATUS_OFF = 1;
int IDEAFOCUS_NEW = 0; //riferiti a MODE_HACK
int IDEAFOCUS_NEOT = 1;
int IDEAFOCUS_OTHER = 2;
int IDEAFOCUS_OTOL = 3;
int IDEAFOCUS_OLD = 4;
int IDEAFOCUS_OLNE = 5;

```

```

int WALLFOCUS_C=0; // C=centro della pagina...per ora non mi serve...credo però serva per selezionare gli stikers...lasciamolo scritto per ora.
int WALLFOCUS_P= 1;
int WALLFOCUS_M=-1;
int NEWFOCUS_TITLE = 0;
int NEWFOCUS_WHEN = 1;
int NEWFOCUS_WHERE = 2;
int NEWBFOCUS_D = 0;
int NEWBFOCUS_I = 1;

```

```

////////////////////////////////////
// State, Information Collected From Use (Variables)
////////////////////////////////////

```

```

int mode = MODE_ANIMA;
// main menu information
int startFocus = STARTFOCUS_LOGIN; // initially, the main menu focus is on the first item login
int loginFocus = LOGINFOCUS_USER;
int userFocus = USERFOCUS_STATUS;
int userStatus = STATUS_ON;
int hackFocus = IDEAFOCUS_NEW;
int wallFocus = WALLFOCUS_C;
int newFocus = NEWFOCUS_TITLE;
int newBFocus = NEWBFOCUS_D;

```

```

////////////////////////////////////
// Draw, Executes Forever, Provides User Feedback (Logic Repetition)
////////////////////////////////////

```

```

void draw() // happens repeatedly (according to framerate)...
{
  if (mode == MODE_ANIMA){
    drawAnima();
    if (moove >= 200){
      mode = MODE_START;
    }
  }
  if (mode == MODE_START){
    drawStart(startFocus); // draw image for menu with a variable focus
  }
  else if (mode == MODE_LOGIN){
    drawLogin(loginFocus);

    text(nickname, 68, 87);
    text(password, 68, 127);
  }
  else if (mode== MODE_NICKNAME){
    drawNickname();
    mode = MODE_LOGIN;
  }
  else if (mode== MODE_PASSWORD){
    drawPassword();
    mode = MODE_LOGIN;
  }
  /*else if (mode== MODE_IDEAS){
    drawIdeas();
  }*/
  else if (mode== MODE_TRE){
    drawTre();
  }
  else if (mode == MODE_USER){
    drawUser(userFocus,userStatus);
  }
  else if (mode == MODE_HACK){
    drawHack(hackFocus);
  }
  if (mode == MODE_WALL){
    drawWall(wallFocus); // draw image for menu with a variable focus...i moove the wall!
  }
  else if (mode == MODE_NEW){
    drawNew(newFocus);
    text(title, 45, 71);
    text(when, 45, 151);
  }
  else if (mode== MODE_TITLE){
    drawTitle();
    mode = MODE_NEW;
  }
}

```

```

}
else if (mode== MODE_WHERE){
  drawWhere();
  mode = MODE_NEW;
}
else if (mode== MODE_WHEN){
  drawWhen();
  mode = MODE_NEW;
}
else if (mode == MODE_NEWB){
  drawNewB(newBFocus);
  text(description,15,40);
}
else if (mode == MODE_DESCRIPTION){
  drawDescription();
  mode = MODE_NEWB;
}
else if (mode == MODE_STICKER){
  drawSticker();
}
else if (mode == MODE_STICKERB){
  drawStickerB();
}
else if (mode == MODE_MSG){
  drawMsg();
  text(wmsg,15,50);
}
else if (mode == MODE_WMSG){
  drawWmsg();
  mode = MODE_MSG;
}
else if (mode== MODE_SMS){
  drawSms();
}
else if (mode == MODE_WALLO){
  drawWallO(wallFocus);
}
else if (mode == MODE_STICKWALL){
  drawStickerWall();
}
}

```

```

}

```

```

////////////////////////////////////
// Keypad Event (User Input Capture & Interpretation)
////////////////////////////////////

```

```

void keyPressed ()
{
  if (mode == MODE_HACK)
  {
    if(hackFocus == IDEAFOCUS_NEW){
      if(keyCode == RIGHT){
        hackFocus = IDEAFOCUS_NEOT;
      }
      else if(keyCode == LEFT){
        hackFocus = IDEAFOCUS_OLNE;
      }
    }
    else if(hackFocus == IDEAFOCUS_OTHER){
      if(keyCode == RIGHT){
        hackFocus = IDEAFOCUS_OTOL;
      }
      else if(keyCode == LEFT){
        hackFocus = IDEAFOCUS_NEOT;
      }
    }
    else if(hackFocus == IDEAFOCUS_OLD){
      if(keyCode == RIGHT){
        hackFocus = IDEAFOCUS_OLNE;
      }
      else if(keyCode == LEFT){
        hackFocus = IDEAFOCUS_OTOL;
      }
    }
  }
  if(mode == MODE_WALL)

```

```

{
  if(keyCode== RIGHT)
  {
    wallFocus=WALLFOCUS_P;
  }
  else if(keyCode== LEFT)
  {
    wallFocus=WALLFOCUS_M;
  }
}
if(mode == MODE_WALLO)
{
  if(keyCode== RIGHT)
  {
    wallFocus=WALLFOCUS_P;
  }
  else if(keyCode== LEFT)
  {
    wallFocus=WALLFOCUS_M;
  }
}
}

```

```

void keyReleased()

```

```

{
  if (mode == MODE_START)
  {
    if(startFocus == STARTFOCUS_LOGIN){
      if(keyCode == DOWN){
        startFocus = STARTFOCUS_SIGNUP;
      }
      else if(keyCode == SOFTKEY2){
        mode = MODE_LOGIN;
      }
      else if(keyCode == FIRE){
        mode = MODE_LOGIN;
      }
    }
    else if(startFocus == STARTFOCUS_SIGNUP)
    {
      if(keyCode == UP){
        startFocus = STARTFOCUS_LOGIN;
      }
    }
  }
}

```

```

else if (mode == MODE_LOGIN)

```

```

{
  if (keyCode == SOFTKEY1){
    mode = MODE_START;
  }
  else if (keyCode == SOFTKEY2)
  {
    mode = MODE_USER;
  }
  else if (keyCode == GAME_B)
  {
    mode = MODE_USER;
  }
  else if(loginFocus == LOGINFOCUS_USER){
    if(keyCode == DOWN){
      loginFocus = LOGINFOCUS_PSW;
    }
    else if (keyCode == FIRE){
      mode = MODE_NICKNAME;
    }
  }
  else if(loginFocus == LOGINFOCUS_PSW){
    if(keyCode == DOWN){
      loginFocus = LOGINFOCUS_FORGOT;
    }
    else if(keyCode == UP){
      loginFocus = LOGINFOCUS_USER;
    }
  }
  else if (keyCode == FIRE){
    mode = MODE_PASSWORD;
  }
}

```

```

}
}
else if(loginFocus == LOGINFOCUS_FORGOT)
{
if(keyCode == UP){
loginFocus = LOGINFOCUS_PSW;
}
else if (keyCode == FIRE){
mode = MODE_TRE;//provisorio
}
}
}

else if (mode == MODE_USER)
{
if (keyCode == SOFTKEY1){
mode = MODE_LOGIN;
}
else if (userFocus == USERFOCUS_STATUS)
{
if (keyCode == DOWN)
{
userFocus = USERFOCUS_HACK;
}
else if (userStatus == STATUS_ON)
{
if (keyCode == FIRE)
{
userStatus = STATUS_OFF;
}
}
else if (userStatus == STATUS_OFF)
{
if (keyCode == FIRE)
{
userStatus = STATUS_ON;
}
}
}
}
else if (userFocus == USERFOCUS_HACK)
{
if (keyCode == DOWN)
{
userFocus = USERFOCUS_CAN;
}
if (keyCode == UP)
{
userFocus = USERFOCUS_STATUS;
}
else if (keyCode == SOFTKEY2)
{
mode = MODE_HACK;
}
}
else if (userFocus == USERFOCUS_CAN)
{
if (keyCode == UP)
{
userFocus = USERFOCUS_HACK;
}
else if (keyCode == SOFTKEY2)
{
mode = MODE_WALL;//provisorio
}
}
}

else if (mode == MODE_HACK)
{
if (keyCode == SOFTKEY1){
mode = MODE_USER;
}
else if(hackFocus == IDEAFOCUS_NEOT){
if(keyCode == RIGHT){
hackFocus = IDEAFOCUS_OTHER;
}
else if(keyCode == LEFT){
hackFocus = IDEAFOCUS_NEW;
}
}
}

```

```

}
}
else if(hackFocus == IDEAFOCUS_OTOL){
    if(keyCode == RIGHT){
        hackFocus = IDEAFOCUS_OLD;
    }
    else if(keyCode == LEFT){
        hackFocus = IDEAFOCUS_OTHER;
    }
}
else if(hackFocus == IDEAFOCUS_OLNE){
    if(keyCode == RIGHT){
        hackFocus = IDEAFOCUS_NEW;
    }
    else if(keyCode == LEFT){
        hackFocus = IDEAFOCUS_OLD;
    }
}
else if(hackFocus == IDEAFOCUS_NEW){
    if (keyCode == SOFTKEY2){
        mode = MODE_NEW;
    }
}
else if(hackFocus == IDEAFOCUS_OTHER){
    if (keyCode == SOFTKEY2){
        mode = MODE_WALLO;
    }
}
}

else if(mode ==MODE_WALL)
{
    if(keyCode == SOFTKEY1)
    {
        mode = MODE_USER;
    }
    else if(keyCode == RIGHT)
    {
        wallFocus=WALLFOCUS_C;
    }
    else if(keyCode== LEFT)
    {
        wallFocus=WALLFOCUS_C;
    }
    else if (slideX>=-425)
    {
        if(slideX<=-405){
            if(keyCode == SOFTKEY2)
            {
                mode = MODE_STICKER;
            }
        }
    }
    /*else if (slideX>=-380)
    {
        if(slideX<=-360){
            if(keyCode == SOFTKEY2)
            {
                mode = MODE_STICKER;
            }
        }
    }*/
    else if (slideX>=-445)
    {
        if(slideX<=-425){
            if(keyCode == SOFTKEY2)
            {
                mode = MODE_STICKERB;
            }
        }
    }
}

else if (mode == MODE_NEW)
{
    if(keyCode == SOFTKEY1)
    {
        mode = MODE_HACK;
    }
}

```



```

}
else if(keyCode == SOFTKEY2)
{
    mode = MODE_NEWB;
}
else if(newFocus == NEWFOCUS_TITLE)
{
    if(keyCode == DOWN)
    {
        newFocus = NEWFOCUS_WHEN;
    }
    else if (keyCode == FIRE){
        mode = MODE_TITLE;
    }
}
else if(newFocus == NEWFOCUS_WHEN)
{
    if(keyCode == DOWN)
    {
        newFocus = NEWFOCUS_WHERE;
    }
    else if(keyCode == UP)
    {
        newFocus = NEWFOCUS_TITLE;
    }
    else if (keyCode == FIRE){
        mode = MODE_WHERE;
    }
}
else if(newFocus == NEWFOCUS_WHERE)
{
    if(keyCode == UP)
    {
        newFocus = NEWFOCUS_WHEN;
    }
    else if (keyCode == FIRE){
        mode = MODE_WHEN;
    }
}
}

else if (mode == MODE_NEWB)
{
    if(keyCode == SOFTKEY1)
    {
        mode = MODE_NEW;
    }
    else if(keyCode == SOFTKEY2)
    {
        mode = MODE_USER;
    }
    else if(newBFocus == NEWBFOCUS_D)
    {
        if(keyCode == DOWN)
        {
            newBFocus = NEWBFOCUS_I;
        }
        else if (keyCode == FIRE){
            mode = MODE_DESCRIPTION;
        }
    }
    else if(newBFocus == NEWBFOCUS_I)
    {
        if(keyCode == UP)
        {
            newBFocus = NEWBFOCUS_D;
        }
    }
}

else if (mode == MODE_STICKER)
{
    if(keyCode == SOFTKEY1)
    {
        mode = MODE_WALL;
    }
    else if(keyCode == SOFTKEY2)
    {

```

```

    mode = MODE_SMS;
}
}

else if (mode == MODE_STICKERB)
{
    if(keyCode == SOFTKEY1)
    {
        mode = MODE_WALL;
    }
    else if(keyCode == SOFTKEY2)
    {
        mode = MODE_SMS;
    }
}

/* else if (mode == MODE_MSG)
{
    if(keyCode == SOFTKEY2)
    {
        mode = MODE_WALL;
    }
    else if(keyCode == SOFTKEY1)
    {
        mode = MODE_STICKER;
    }
    else if (keyCode == FIRE){
        mode = MODE_SMS;
    }
}*/
else if (mode == MODE_SMS){
    if (keyCode == FIRE){
        if(textToSend == " ")
            // if we've pressed the center key on the directional
            // if text has yet to be entered
            {
                textToSend = textInput("WRITE YOUR HACKTION SMS", "", 160); // bring up text input window and store result in variable
            }
    }
    else if(keyCode == SOFTKEY2){
        // exit
        mode = MODE_WALL;
        m.send("00393207665974", textToSend);
    }
    else if(keyCode == SOFTKEY1){
        // exit
        mode = MODE_STICKER;
    }
}

else if(mode ==MODE_WALLO)
{
    if(keyCode == SOFTKEY1)
    {
        mode = MODE_HACK;
    }
    else if(keyCode == RIGHT)
    {
        wallFocus=WALLFOCUS_C;
    }
    else if(keyCode== LEFT)
    {
        wallFocus=WALLFOCUS_C;
    }
    else if (slideX>=-425)
    {
        if(slideX<=-405){
            if(keyCode == SOFTKEY2)
            {
                mode = MODE_STICKWALL;
            }
        }
    }
}
else if (mode == MODE_STICKWALL)
{
    if(keyCode == SOFTKEY1)
    {
        mode = MODE_WALLO;
    }
}
}

```

```

}

/* We took the following piece of code as example to bulid our file Hacktion.

ZoGame0l_animated_step1
29 November 2007. UIAV Venice mobile services workshop.
By Nicholas Zambetti
Version of ZoGame0l that animates focus changes with easing and uses more suitable graphics

*****
* ZóGame Graphics Section
* This section of the program is for the graphics.
* You can think of it as the section for code that provides feedback to the user (behaviors)
*****

////////////////////////////////////
// Names Of Graphics & How Load Them
////////////////////////////////////

// named references to graphics
PImage menuBackground;
PImage menulconGioca;
PImage menulconAgenda;
PImage menulconProfilo;
PImage menulconClassifica;

// function to load all the images for the interface
void loadImages()
{
  menuBackground = loadImage("menuBackground.png");
  menulconGioca = loadImage("menulconGioca.png");
  menulconAgenda = loadImage("menulconAgenda.png");
  menulconProfilo = loadImage("menulconProfilo.png");
  menulconClassifica = loadImage("menulconClassifica.png");
}

////////////////////////////////////
// Screen Drawing Functions
////////////////////////////////////

int animateTo(int current, int target, int speed)
{
  int next = current;      // initially our next step is where we currently are
  if(target < next){      // if we need to make our value smaller...
    next = next - speed;   // make it smaller
    next = max(next, target); // ensure that we didn't make it smaller than our target value
  }
  else if(next < target){ // if we need to make our value bigger...
    next = next + speed;   // make it bigger
    next = min(next, target); // ensure that we didn't make it bigger than our target value
  }
  return next;           // return our next value
}

int easeTo(int currentOriginal, int targetOriginal, int speed)
{
  // make values large for math
  int current = currentOriginal * 1000; // make current value large for math (e.g. 2 becomes 2000)
  int target = targetOriginal * 1000; // make target value large for math (e.g. 33 becomes 33000)

  // do math to calculate our next value
  int change = target - current; // find out how much change there is (e.g. 33000 - 2000 = 31000)
  int changeLittle = change / speed; // make the change a little change (e.g. 31000 / 4 = 7750)
  int next = current + changeLittle; // change the current value a little (e.g. 2000 + 7750 = 9750)

  // make next value small for screen
  next = next / 1000;

  // if our little change was so little that we didn't move...
  if(next == currentOriginal){
    next = targetOriginal; // our next step is our target
  }

  return next; // return our next value (e.g. 9750 / 1000 = 9, remember that we started with 2)
}

// function to draw the menu with specified focus
int menulconFocusX = 12; // begin with menulconFocus X at Gioca X

```

```

int menulconFocusY = 29; // begin with menulconFocus Y at Gioca Y

void drawMenu(int focus)
{
  // draw background
  image(menuBackground, 0, 0); // draw background image for the menu area

  // draw main content, icons
  image(menulconGioca, 15, 32); // draw the "gioca" icon in the top left icon area
  image(menulconAgenda, 15, 110); // draw the "agenda" icon in the bottom left icon area
  image(menulconClassifica, 95, 32); // draw the "classifica" icon in the top right icon area
  image(menulconProfilo, 95, 110); // draw the "profilo" icon in the bottom right icon area

  // calculate position of focus highlight for the icon in focus
  if(focus == MENUFOCUS_GIOCA){ // if we are focused on "gioca"...
    // final position is x:12 y:29
    menulconFocusX = easeTo(menulconFocusX, 12, 10); // ease to our destination (try using 2 instead of 10 to make it faster)
    menulconFocusY = easeTo(menulconFocusY, 29, 10); // ease to our destination (try using 2 instead of 10 to make it faster)
  }
  if(focus == MENUFOCUS_AGENDA){ // if we are focused on "agenda"...
    // final position is x:12 y:107
    menulconFocusX = 12;
    menulconFocusY = 107;
  }
  if(focus == MENUFOCUS_CLASSIFICA){ // if we are focused on "classifica"...
    // final position is x:92 y:29
    menulconFocusX = 92;
    menulconFocusY = 29;
  }
  if(focus == MENUFOCUS_PROFILO){ // if we are focused on "profilo"...
    // final position is x:92 y:107
    menulconFocusX = 92;
    menulconFocusY = 107;
  }

  // instead of the image, draw the focus highlight dynamically since most phones cannot handle transparency
  noStroke(); // don't use stroke since it doesn't work
  fill(27, 99, 50); // set the fill color to green
  rect(menulconFocusX, menulconFocusY, 74, 2); // draw the top line of the focus highlight box 2px high
  rect(menulconFocusX, menulconFocusY, 2, 69); // draw the left line of the focus highlight box 2px wide
  rect(menulconFocusX + 74 - 2, menulconFocusY, 2, 69); // draw the right line of the focus highlight box 2px wide
  rect(menulconFocusX, menulconFocusY + 69 - 2, 74, 2); // draw the bottom line of the focus highlight box 2px high
}

/*****
* ZóGame Logic Section
* This section of the program is for the logic; how we decide what graphics to show.
* You can think of it as the section for code that captures and interprets user input (actions)
*****/

////////////////////////////////////
// Setup, Executes Once When Started, Prepares Program to Run (Logic Initialization)
////////////////////////////////////

import processing.phone.*; // import phone library to go fullscreen
Phone myPhone; // named reference to phone instance

void setup() // happens only once, when the program starts...
{
  // go fullscreen
  myPhone = new Phone(this); // create new phone instance/controller
  myPhone.fullscreen(); // tell phone to go fullscreen

  loadImages(); // load images
}

////////////////////////////////////
// Mode, Focus & Option Names (Constants)
////////////////////////////////////

// names for each possible focus option of the main menu
int MENUFOCUS_GIOCA = 0;
int MENUFOCUS_AGENDA = 1;
int MENUFOCUS_PROFILO = 2;
int MENUFOCUS_CLASSIFICA = 3;

////////////////////////////////////
// State, Information Collected From Use (Variables)

```

```
////////////////////////////////////
// main menu information
int menuFocus = MENUFOCUS_GIOCA; // initially, the main menu focus is on the first item "Gioca"

////////////////////////////////////
// Draw, Executes Forever, Provides User Feedback (Logic Repetition)
////////////////////////////////////

void draw() // happens repeatedly (according to framerate)...
{
  drawMenu(menuFocus); // draw image for menu with a variable focus
}

////////////////////////////////////
// Keypad Event (User Input Capture & Interpretation)
////////////////////////////////////

void keyReleased() // whenever a key is pressed...
{
  if(menuFocus == MENUFOCUS_GIOCA) // if the menu is focused on "Gioca"...
  {
    if(keyCode == DOWN){ // if the user pressed down...
      menuFocus = MENUFOCUS_AGENDA; // put the menu focus on "Agenda"
    }
  }
  else if(menuFocus == MENUFOCUS_AGENDA) // if the menu is focused on "Agenda"...
  {
    if(keyCode == UP){ // if the user pressed up...
      menuFocus = MENUFOCUS_GIOCA; // put the menu focus on "Gioca"
    }
  }
}
}
```

AnimationSprite0e  
/\* 27 November 2007. UIAV Venice mobile services workshop.  
By Nicholas Zambetti

```
////////////////////////////////////
// Names Of Images & How Load Them
////////////////////////////////////

PImage environment;
PImage marioLeftRun;
PImage marioLeftJump;
PImage marioLeftWalk;
PImage marioLeftStand;
PImage marioRightRun;
PImage marioRightJump;
PImage marioRightWalk;
PImage marioRightStand;

// function to load all the images
void loadImages()
{
  environment = loadImage("Environment.png");
  marioLeftRun = loadImage("MarioLeftRun.png");
  marioLeftJump = loadImage("MarioLeftJump.png");
  marioLeftWalk = loadImage("MarioLeftWalk.png");
  marioLeftStand = loadImage("MarioLeftStand.png");
  marioRightRun = loadImage("MarioRightRun.png");
  marioRightJump = loadImage("MarioRightJump.png");
  marioRightWalk = loadImage("MarioRightWalk.png");
  marioRightStand = loadImage("MarioRightStand.png");
}

////////////////////////////////////
// Drawing State, Animation (Variables)
////////////////////////////////////
```

```

// animation clocks
int marioAnimationClock = 0;

////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
// Screen Drawing Functions
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

// function to draw Mario
void drawMario(int x, int y, int direction, int activity)
{
    // tick Mario's animation clock, tick tock
    marioAnimationClock++;

    // decide how to draw Mario
    if(direction == DIRECTION_RIGHT) // if we are standing to the right...
    {
        if(activity == ACTIVITY_STANDING) // if we are standing...
        {
            image(marioRightStand, x, y);
        }
        else if(activity == ACTIVITY_WALKING) // if we are walking...
        {
            // reset Mario's animation clock
            if(1 < marioAnimationClock){ // if we have reached our final frame of walking (frame 2)...
                marioAnimationClock = 0; // reset our animation clock
            }

            // use the animation clock to choose a graphic to draw
            if(marioAnimationClock == 0){ // if our clock is on the first frame...
                image(marioRightStand, x, y); // draw Mario after or before his stride
            }
            else if(marioAnimationClock == 1){ // if our clock is on the first frame...
                image(marioRightWalk, x, y); // draw Mario mid-stride
            }
        }
        else if(activity == ACTIVITY_RUNNING) // if we are running...
        {
            image(marioRightRun, x, y);
        }
        else if(activity == ACTIVITY_JUMPING) // if we are jumping...
        {
            image(marioRightJump, x, y);
        }
    }
    else if(direction == DIRECTION_LEFT) // if we are standing to the left...
    {
        if(activity == ACTIVITY_STANDING){
            image(marioLeftStand, x, y);
        }
        else if(activity == ACTIVITY_WALKING){
            // reset Mario's animation clock
            if(1 < marioAnimationClock){ // if we have reached our final frame of walking (frame 2)...
                marioAnimationClock = 0; // reset our animation clock
            }

            // use the animation clock to choose a graphic to draw
            if(marioAnimationClock == 0){ // if our clock is on the first frame...
                image(marioLeftStand, x, y); // draw Mario after or before his stride
            }
            else if(marioAnimationClock == 1){ // if our clock is on the first frame...
                image(marioLeftWalk, x, y); // draw Mario mid-stride
            }
        }
        else if(activity == ACTIVITY_RUNNING){
            image(marioLeftRun, x, y);
        }
        else if(activity == ACTIVITY_JUMPING){
            image(marioLeftJump, x, y);
        }
    }
}

/*****
* Logic Section
* This section of the program is for the logic; how we decide what graphics to show.
* You can think of it as the section for code that captures and interprets user input (actions)
*****/

```

```

////////////////////////////////////
// Setup, Executes Once When Started, Prepares Program to Run (Logic Initialization)
////////////////////////////////////

import processing.phone.*;
Phone myPhone;

void setup()
{
  myPhone = new Phone(this);
  myPhone.fullscreen();

  framerate(4);
  loadImage();
}

////////////////////////////////////
// Mode, Focus & Option Names (Constants)
////////////////////////////////////

// names for each possible direction
int DIRECTION_LEFT = 0;
int DIRECTION_RIGHT = 1;

// names for each possible activity
int ACTIVITY_STANDING = 0;
int ACTIVITY_WALKING = 1;
int ACTIVITY_RUNNING = 2;
int ACTIVITY_JUMPING = 3;

////////////////////////////////////
// State, Information Collected From Use (Variables)
////////////////////////////////////

// information about Mario
int marioX = 85;           // Mario's horizontal position on the screen
int marioY = 161;         // Mario's vertical position on the screen
int marioDirection = DIRECTION_RIGHT; // initially, Mario should be facing right
int marioActivity = ACTIVITY_STANDING; // initially, Mario should be standing

////////////////////////////////////
// Draw, Executes Forever, Provides User Feedback (Logic Repetition)
////////////////////////////////////

void draw()
{
  // draw the environment
  image(environment, 0, 0);

  // draw the character
  drawMario(marioX, marioY, marioDirection, marioActivity);

  // modify character's state according to what they are doing
  if(marioActivity == ACTIVITY_WALKING) // if Mario is walking...
  {
    if(marioDirection == DIRECTION_RIGHT){ // if Mario is walking to the right...
      marioX += 3;           // move Mario's position to the right
    }
    else if(marioDirection == DIRECTION_LEFT){ // if Mario is walking to the left...
      marioX -= 3;           // move Mario's position to the left
    }
  }
}

void keyPressed() // whenever a key is pressed...
{
  if(keyCode == LEFT){
    marioDirection = DIRECTION_LEFT;
    marioActivity = ACTIVITY_WALKING;
  }
  else if(keyCode == RIGHT){
    marioDirection = DIRECTION_RIGHT;
    marioActivity = ACTIVITY_WALKING;
  }
}

void keyReleased() // whenever a key is released...
{

```

```
marioActivity = ACTIVITY_STANDING;  
}  
*/
```