Федеральное государственное бюджетное образовательное учреждение   
высшего образования

|  |  |
| --- | --- |
| Gerb-BMSTU_01 | «Московский государственный технический университет  им. Н.Э. Баумана (национальный исследовательский университет)» (МГТУ им. Н.Э. Баумана) |

ФАКУЛЬТЕТ – Информатика и управления

КАФЕДРА – Информационные системы и телекоммуникации

РАСЧЁТНО-ПОЯСНИТЕЛЬНАЯ ЗАПИСКА

к курсовой работе на тему

«Разработка прототипа табличного веб-редактора свойств с использованием технологии TeaVM»

Студент группы ИУ3-72 (подпись) 06.02.2017 Ф.М.Ковальский

Руководитель курсовой работы (подпись) 06.02.2017 А. М. Иванов

Москва, 2017

Код разработанной программы Client.java:

**package** com.mydomain.MyCode;

**import** org.teavm.jso.dom.html.HTMLButtonElement;

**import** org.teavm.jso.dom.html.HTMLDocument;

**import** org.teavm.jso.dom.html.HTMLElement;

**public** **class** Client {

**public** **static** HTMLDocument *document* = HTMLDocument.*current*();

**public** **static** HTMLButtonElement *arrangebutton* = *document*.getElementById("ArnBtn").cast();

**public** **static** HTMLButtonElement *textbutton* = *document*.getElementById("TxtBtn").cast();

**public** **static** HTMLButtonElement *stylebutton* = *document*.getElementById("StlBtn").cast();

**public** **static** HTMLButtonElement *leftbutton* = *document*.getElementById("LftBtn").cast();

**public** **static** HTMLButtonElement *rightbutton* = *document*.getElementById("RghtBtn").cast();

**public** **static** HTMLButtonElement *color1button* = *document*.getElementById("clr1").cast();

**public** **static** HTMLButtonElement *color2button* = *document*.getElementById("clr2").cast();

**public** **static** HTMLButtonElement *color3button* = *document*.getElementById("clr3").cast();

**public** **static** HTMLButtonElement *color4button* = *document*.getElementById("clr4").cast();

**public** **static** HTMLButtonElement *color5button* = *document*.getElementById("clr5").cast();

**public** **static** HTMLButtonElement *color6button* = *document*.getElementById("clr6").cast();

**public** **static** HTMLButtonElement *color7button* = *document*.getElementById("clr7").cast();

**public** **static** HTMLButtonElement *color8button* = *document*.getElementById("clr8").cast();

**public** **static** HTMLButtonElement *checker* = *document*.getElementById("chk").cast();

**public** **static** HTMLButtonElement *checkergrad* = *document*.getElementById("chkgrad").cast();

**public** **static** HTMLButtonElement *checkerline* = *document*.getElementById("chkline").cast();

**public** **static** HTMLButtonElement *btnup* = *document*.getElementById("btnup").cast();

**public** **static** HTMLButtonElement *btndown* = *document*.getElementById("btndown").cast();

**public** **static** HTMLButtonElement *btnup1* = *document*.getElementById("btnup1").cast();

**public** **static** HTMLButtonElement *btndown1* = *document*.getElementById("btndown1").cast();

**public** **static** HTMLButtonElement *btnup2* = *document*.getElementById("btnup2").cast();

**public** **static** HTMLButtonElement *btndown2* = *document*.getElementById("btndown2").cast();

**public** **static** HTMLElement *background* = *document*.createElement("div");

**public** **static** HTMLElement *perimeter* = *document*.createElement("div");

**public** **static** HTMLElement *topbar* = *document*.createElement("div");

**public** **static** HTMLElement *style* = *document*.createElement("div");

**public** **static** HTMLElement *text* = *document*.createElement("div");

**public** **static** HTMLElement *arrange* = *document*.createElement("div");

**public** **static** HTMLElement *left* = *document*.createElement("div");

**public** **static** HTMLElement *right* = *document*.createElement("div");

**public** **static** HTMLElement *allblock* = *document*.createElement("div");

**public** **static** HTMLElement *clrinbtn* = *document*.createElement("div");

**public** **static** HTMLElement *allcolorblock* = *document*.createElement("div");

**public** **static** HTMLElement *onlycolor* = *document*.createElement("div");

**public** **static** HTMLElement *clrsettingsblok* = *document*.createElement("div");

**public** **static** HTMLElement *fillblock* = *document*.createElement("div");

**public** **static** HTMLElement *gradientblock* = *document*.createElement("div");

**public** **static** HTMLElement *selectgrad* = *document*.createElement("select");

**public** **static** HTMLElement *fill* = *document*.createElement("splan");

**public** **static** HTMLElement *grad* = *document*.createElement("splan");

**public** **static** HTMLElement *line* = *document*.createElement("splan");

**public** **static** HTMLElement *per* = *document*.createElement("splan");

**public** **static** HTMLElement *shad* = *document*.createElement("splan");

**public** **static** HTMLElement *option1* = *document*.createElement("option");

**public** **static** HTMLElement *option2* = *document*.createElement("option");

**public** **static** HTMLElement *option3* = *document*.createElement("option");

**public** **static** HTMLElement *option4* = *document*.createElement("option");

**public** **static** HTMLElement *linebar* = *document*.createElement("div");

**public** **static** HTMLElement *lineblock* = *document*.createElement("div");

**public** **static** HTMLElement *linemid* = *document*.createElement("div");

**public** **static** HTMLElement *pattern* = *document*.createElement("a");

**public** **static** HTMLElement *inpattern* = *document*.createElement("div");

**public** **static** HTMLElement *inpattern1* = *document*.createElement("div");

**public** **static** HTMLElement *patternbtn* = *document*.createElement("div");

**public** **static** HTMLElement *arrow* = *document*.createElement("img");

**public** **static** HTMLElement *linewidth* = *document*.createElement("input");

**public** **static** HTMLElement *perim* = *document*.createElement("input");

**public** **static** HTMLElement *opacityinput* = *document*.createElement("input");

**public** **static** HTMLElement *linewidthblock* = *document*.createElement("div");

**public** **static** HTMLElement *perimeterblock* = *document*.createElement("div");

**public** **static** HTMLElement *opacity* = *document*.createElement("div");

**public** **static** HTMLElement *opacityblock* = *document*.createElement("div");

**public** **static** HTMLElement *shadowblock* = *document*.createElement("div");

**public** **static** HTMLElement *buttonblock* = *document*.createElement("div");

**public** **static** HTMLElement *button1* = *document*.createElement("button");

**public** **static** HTMLElement *button2* = *document*.createElement("button");

**public** **static** HTMLElement *button3* = *document*.createElement("button");

**public** **static** HTMLElement *button4* = *document*.createElement("button");

**public** **static** HTMLElement *br* = *document*.createElement("br");

**public** **static** HTMLElement *br1* = *document*.createElement("br");

**public** **static** HTMLElement *b2* = *document*.createElement("br");

**public** **static** String *color1* = "background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);";

**public** **static** String *color2* = "background-color: rgb(238, 238, 238); border: 1px solid rgb(54, 57, 61);";

**public** **static** String *color3* = "background-color: rgb(249, 247, 237); border: 1px solid rgb(54, 57, 61);";

**public** **static** String *color4* = "background-color: rgb(255, 204, 153); border: 1px solid rgb(54, 57, 61);";

**public** **static** String *color5* = "background-color: rgb(204, 229, 255); border: 1px solid rgb(54, 57, 61);";

**public** **static** String *color6* = "background-color: rgb(255, 255, 136); border: 1px solid rgb(54, 57, 61);";

**public** **static** String *color7* = "background-color: rgb(205, 235, 139); border: 1px solid rgb(54, 57, 61);";

**public** **static** String *color8* = "background-color: rgb(255, 204, 204); border: 1px solid rgb(54, 57, 61);";

**public** **static** String *color9* = "background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);";

**public** **static** String *color10* =

"background-image: linear-gradient(rgb(245, 245, 245) 0px, rgb(179, 179, 179) 100%); border: 1px solid rgb(102, 102, 102);";

**public** **static** String *color11* =

"background-image: linear-gradient(rgb(218, 232, 252) 0px, rgb(126, 166, 224) 100%); border: 1px solid rgb(108, 142, 191);";

**public** **static** String *color12* =

"background-image: linear-gradient(rgb(213, 232, 212) 0px, rgb(151, 208, 119) 100%); border: 1px solid rgb(130, 179, 102);";

**public** **static** String *color13* =

"background-image: linear-gradient(rgb(255, 205, 40) 0px, rgb(255, 165, 0) 100%); border: 1px solid rgb(215, 155, 0);";

**public** **static** String *color14* =

"background-image: linear-gradient(rgb(255, 242, 204) 0px, rgb(255, 217, 102) 100%); border: 1px solid rgb(214, 182, 86);";

**public** **static** String *color15* =

"background-image: linear-gradient(rgb(248, 206, 204) 0px, rgb(234, 107, 102) 100%); border: 1px solid rgb(184, 84, 80);";

**public** **static** String *color16* =

"background-image: linear-gradient(rgb(230, 208, 222) 0px, rgb(213, 115, 157) 100%); border: 1px solid rgb(153, 97, 133);";

**public** **static** String *color17* = "background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);";

**public** **static** String *color18* = "background-color: rgb(245, 245, 245); border: 1px solid rgb(102, 102, 102);";

**public** **static** String *color19* = "background-color: rgb(218, 232, 252); border: 1px solid rgb(108, 142, 191);";

**public** **static** String *color20* = "background-color: rgb(213, 232, 212); border: 1px solid rgb(130, 179, 102);";

**public** **static** String *color21* = "background-color: rgb(255, 230, 204); border: 1px solid rgb(215, 155, 0);";

**public** **static** String *color22* = "background-color: rgb(255, 242, 204); border: 1px solid rgb(214, 182, 86);";

**public** **static** String *color23* = "background-color: rgb(248, 206, 204); border: 1px solid rgb(184, 84, 80);";

**public** **static** String *color24* = "background-color: rgb(225, 213, 231); border: 1px solid rgb(150, 115, 166);";

**public** **static** String *SubButton* = "background-color:";

**public** **static** String *SubBorder* = "border";

**public** **static** String *SubSolid* = "solid";

**static** **int** *i* = 2;

**static** **int** *width* = 6;

**static** **int** *perimeterint* = 0;

**static** **int** *opacityint* = 100;

**public** **static** **void** main(String[] args) {

/\* String color1 = "background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);";

String color2 = "background-color: rgb(238, 238, 238); border: 1px solid rgb(54, 57, 61);";

String color3 = "background-color: rgb(249, 247, 237); border: 1px solid rgb(54, 57, 61);";

String color4 = "background-color: rgb(255, 204, 153); border: 1px solid rgb(54, 57, 61);";

String color5 = "background-color: rgb(204, 229, 255); border: 1px solid rgb(54, 57, 61);";

String color6 = "background-color: rgb(255, 255, 136); border: 1px solid rgb(54, 57, 61);";

String color7 = "background-color: rgb(205, 235, 139); border: 1px solid rgb(54, 57, 61);";

String color8 = "background-color: rgb(255, 204, 204); border: 1px solid rgb(54, 57, 61);";

String color9 = "background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);";

String color10 =

"background-image: linear-gradient(rgb(245, 245, 245) 0px, rgb(179, 179, 179) 100%); border: 1px solid rgb(102, 102, 102);";

String color11 =

"background-image: linear-gradient(rgb(218, 232, 252) 0px, rgb(126, 166, 224) 100%); border: 1px solid rgb(108, 142, 191);";

String color12 =

"background-image: linear-gradient(rgb(213, 232, 212) 0px, rgb(151, 208, 119) 100%); border: 1px solid rgb(130, 179, 102);";

String color13 =

"background-image: linear-gradient(rgb(255, 205, 40) 0px, rgb(255, 165, 0) 100%); border: 1px solid rgb(215, 155, 0);";

String color14 =

"background-image: linear-gradient(rgb(255, 242, 204) 0px, rgb(255, 217, 102) 100%); border: 1px solid rgb(214, 182, 86);";

String color15 =

"background-image: linear-gradient(rgb(248, 206, 204) 0px, rgb(234, 107, 102) 100%); border: 1px solid rgb(184, 84, 80);";

String color16 =

"background-image: linear-gradient(rgb(230, 208, 222) 0px, rgb(213, 115, 157) 100%); border: 1px solid rgb(153, 97, 133);";

String color17 = "background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);";

String color18 = "background-color: rgb(245, 245, 245); border: 1px solid rgb(102, 102, 102);";

String color19 = "background-color: rgb(218, 232, 252); border: 1px solid rgb(108, 142, 191);";

String color20 = "background-color: rgb(213, 232, 212); border: 1px solid rgb(130, 179, 102);";

String color21 = "background-color: rgb(255, 230, 204); border: 1px solid rgb(215, 155, 0);";

String color22 = "background-color: rgb(255, 242, 204); border: 1px solid rgb(214, 182, 86);";

String color23 = "background-color: rgb(248, 206, 204); border: 1px solid rgb(184, 84, 80);";

String color24 = "background-color: rgb(225, 213, 231); border: 1px solid rgb(150, 115, 166);";\*/

*document*.getBody().setAttribute("class", "geEditor");

ColorButton b1 = **new** ColorButton("clr1", *color1*, *onlycolor*);

ColorButton b2 = **new** ColorButton("clr2", *color2*, *onlycolor*);

ColorButton b3 = **new** ColorButton("clr3", *color3*, *onlycolor*);

ColorButton b4 = **new** ColorButton("clr4", *color4*, *onlycolor*);

ColorButton b5 = **new** ColorButton("clr5", *color5*, *onlycolor*);

ColorButton b6 = **new** ColorButton("clr6", *color6*, *onlycolor*);

ColorButton b7 = **new** ColorButton("clr7", *color7*, *onlycolor*);

ColorButton b8 = **new** ColorButton("clr8", *color8*, *onlycolor*);

CreateAttributes.*insert*(*background*, "geBackgroundPage", "", **null**, "");

CreateAttributes.*insert*(*topbar*, "",

"white-space: nowrap; color: rgb(112, 112, 112); text-align: left; cursor: default;",

*background*, "");

CreateAttributes.*insert*(*style*, "",

"border: 0px solid rgb(192, 192, 192); text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%;",

*topbar*, "Style");

CreateAttributes.*insert*(*text*, "",

"border-width: 0px 0px 1px 1px; border-style: solid; border-color: rgb(192, 192, 192); border-image: initial; text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%; background-color: rgb(215, 215, 215);",

*topbar*, "Text");

CreateAttributes.*insert*(*arrange*, "",

"border-width: 0px 0px 1px 1px; border-style: solid; border-color: rgb(192, 192, 192); border-image: initial; text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%; background-color: rgb(215, 215, 215);",

*topbar*, "Arrange");

CreateAttributes.*insert*(*allblock*, "",

"white-space: nowrap; color: rgb(112, 112, 112); text-align: left; cursor: default; height:411.77px;",

*background*, "");

CreateAttributes.*insert*(*allcolorblock*, "",

"padding: 12px 0px 6px 16px; border-bottom: 1px solid rgb(192, 192, 192); position: relative;height:90.21px;",

*allblock*,

"");

CreateAttributes.*insert*(*onlycolor*, "",

"white-space: normal; padding-left: 24px; padding-right: 20px;height:71.11px;",

*allcolorblock*, "");

CreateAttributes.*insert*(*left*, "geLeftBtn", "", *allcolorblock*, "");

CreateAttributes.*insert*(*right*, "geRightBtn", "", *allcolorblock*, "");

CreateAttributes.*insert*(*clrsettingsblok*, "",

"padding: 6px 0px 6px 18px; border-bottom: 1px solid rgb(192, 192, 192);", *allblock*,

"");

CreateAttributes.*insert*(*fillblock*, "",

"padding: 6px 0px 1px; white-space: nowrap; overflow: hidden; width: 200px; height: 18px; font-weight: bold;",

*clrsettingsblok*, "");

CreateAttributes.*insert*(*gradientblock*, "",

"padding: 6px 0px 1px; white-space: nowrap; overflow: hidden; width: 200px; height: 18px;", *clrsettingsblok*,

"");

CreateAttributes.*insert*(*linebar*, "",

"padding: 4px 0px 4px 18px; border-bottom: 1px solid rgb(192, 192, 192); white-space: normal; width:240px; heihgt: 82.142px;",

*allblock*, "");

CreateAttributes.*insert*(*lineblock*, "",

"padding: 6px 0px 1px; white-space: nowrap; overflow: hidden; width: 200px; height: 18px;font-weight: bold;",

*linebar*, "");

CreateAttributes.*insert*(*linemid*, "geToolbarContainer",

"font-weight: normal; white-space: nowrap; position: relative; padding-left: 16px; margin-bottom: 2px; margin-top: 2px;",

*linebar*, "");

CreateAttributes.*fora*(*pattern*, "geButton geColorBtn",

"opacity: 1; border: 1px solid rgb(160, 160, 160); background-color: white; background-image: none; width: auto; border-radius: 3px; height: 15px;",

*linemid*, "Pattern");

CreateAttributes.*insert*(*inpattern*, "geIcon",

"padding-right: 6px; margin-left: 4px; margin-top: -1px; display: inline-block; opacity: 0.6; width: 84px;",

*pattern*, "");

CreateAttributes.*insert*(*inpattern1*, "",

"width: 85px; height: 1px; border-bottom: 1px dotted black; margin-bottom: 9px;",

*inpattern*, "");

CreateAttributes.*insert*(*patternbtn*, "",

"display: inline-block; padding: 5px 4px 6px 6px; height: 9px; border-left: 1px solid rgb(160, 160, 160); opacity: 0.7;",

*pattern*, "");

CreateAttributes.*forimg*(*arrow*, "0", "margin-bottom:4px;", *pattern*,

"");

CreateAttributes.*forinput*(*linewidth*, "",

"text-align: right; margin-top: 2px; width: 41px; position: absolute; right: 32px; height: 15px;", *pattern*,

"6pt", "Linewidth");

CreateAttributes.*forinput*(*perim*, "",

"text-align: right; margin-top: 2px; width: 41px; position: absolute; right: 32px; height: 15px;",

*perimeter*,

"0pt", "Perimeter");

CreateAttributes.*forinput*(*opacityinput*, "",

"text-align: right; margin-top: -3px; width: 41px; position: absolute; right: 32px; height: 15px;", *opacity*,

"100%", "Opacity");

CreateAttributes.*insert*(*linewidthblock*, "",

"border-radius: 3px; border: 1px solid rgb(192, 192, 192); position: absolute; margin-top: 2px; right: 20px;",

*linemid*, "");

CreateAttributes.*insert*(*perimeterblock*, "",

"border-radius: 3px; border: 1px solid rgb(192, 192, 192); position: absolute; margin-top: 2px; right: 20px;",

*perimeter*, "");

CreateAttributes.*insert*(*perimeter*, "",

"font-weight: normal; position: relative; padding-left: 16px; margin-bottom: 2px; margin-top: 6px; border-width: 0px; padding-bottom: 18px;",

*linebar*, "");

CreateAttributes.*insert*(*opacity*, "",

"padding: 8px 0px 8px 18px; border-bottom: 1px solid rgb(192, 192, 192); font-weight: bold;", *allblock*,

"Opacity");

CreateAttributes.*insert*(*opacityblock*, "",

"border-radius: 3px; border: 1px solid rgb(192, 192, 192); position: absolute; margin-top: -17px; right: 20px;",

*opacity*, "");

CreateAttributes.*insert*(*shadowblock*, "",

"padding: 0px 0px 2px 18px; border-bottom: 1px solid rgb(192, 192, 192);", *allblock*,

"");

CreateAttributes.*insert*(*buttonblock*, "",

"padding: 10px 0px 10px 18px; border-bottom: 1px solid rgb(192, 192, 192);", *allblock*,

"");

CreateAttributes.*insert*(*button1*, "", "width: 202px; margin-bottom: 2px;", *buttonblock*, "Edit Style");

CreateAttributes.*insert*(*br*, "", "", *buttonblock*, "");

CreateAttributes.*insert*(*button2*, "", "margin-bottom: 2px; width: 100px; margin-right: 2px;", *buttonblock*,

"Copy Style");

CreateAttributes.*insert*(*br1*, "", "", *buttonblock*, "");

CreateAttributes.*insert*(*button3*, "", "margin-bottom: 2px; width: 100px;", *buttonblock*, "Paste Style");

CreateAttributes.*insert*(*br1*, "", "", *buttonblock*, "");

CreateAttributes.*insert*(*button4*, "", "width: 202px;", *buttonblock*, "Set as Default Style");

Child.*child*(*linewidthblock*, "btnup");

Child.*child*(*linewidthblock*, "btndown");

Child.*child*(*perimeterblock*, "btnup1");

Child.*child*(*perimeterblock*, "btndown1");

Child.*child*(*opacityblock*, "btnup2");

Child.*child*(*opacityblock*, "btndown2");

Child.*child*(*fillblock*, "chk");

Child.*child*(*gradientblock*, "chkgrad");

Child.*child*(*lineblock*, "chkline");

Child.*child*(*shadowblock*, "chkshadow");

CreateAttributes.*insert*(*fill*, "", "", *fillblock*, "Fill");

CreateAttributes.*insert*(*grad*, "", "", *gradientblock*, "Gradient");

CreateAttributes.*insert*(*line*, "", "", *lineblock*, "Line");

CreateAttributes.*insert*(*per*, "", "", *perimeter*, "Perimeter");

CreateAttributes.*insert*(*shad*, "", "", *shadowblock*, "Shadow");

Child.*child*(*fillblock*, "clrbtn");

Child.*childbyid*("clrbtn", "clrinbtn");

Child.*child*(*gradientblock*, "clrbtngrd");

Child.*childbyid*("clrbtngrd", "clrinbtngrd");

Child.*child*(*lineblock*, "clrbtnline");

Child.*childbyid*("clrbtnline", "clrinbtnline");

CreateAttributes.*foroption*(*option1*, "south", *selectgrad*, "South");

CreateAttributes.*foroption*(*option2*, "east", *selectgrad*, "East");

CreateAttributes.*foroption*(*option3*, "West", *selectgrad*, "West");

CreateAttributes.*foroption*(*option4*, "North", *selectgrad*, "North");

//Child.child(onlycolor, "clr1");

//Child.child(onlycolor, "clr2");

//Child.child(onlycolor, "clr3");

//Child.child(onlycolor, "clr4");

//Child.child(onlycolor, "clr5");

//Child.child(onlycolor, "clr6");

//Child.child(onlycolor, "clr7");

//Child.child(onlycolor, "clr8");

*arrangebutton*.listenClick(evt -> Buttons.*arnBtn*());

*textbutton*.listenClick(evt -> Buttons.*txtBtn*());

*stylebutton*.listenClick(evt -> Buttons.*stlBtn*());

*leftbutton*.listenMouseOver(evt -> Buttons.*lshineBtn*());

*leftbutton*.listenClick(evt -> {

**if** (*i* == 1)

{

*i* = 3;

}

**else**

{

*i*--;

}

**switch** (*i*) {

**case** 2: {

b1.setColors(*color1*);

b2.setColors(*color2*);

b3.setColors(*color3*);

b4.setColors(*color4*);

b5.setColors(*color5*);

b6.setColors(*color6*);

b7.setColors(*color7*);

b8.setColors(*color8*);

**break**;

}

**case** 1: {

b1.setColors(*color9*);

b2.setColors(*color10*);

b3.setColors(*color11*);

b4.setColors(*color12*);

b5.setColors(*color13*);

b6.setColors(*color14*);

b7.setColors(*color15*);

b8.setColors(*color16*);

**break**;

}

**case** 3: {

b1.setColors(*color17*);

b2.setColors(*color18*);

b3.setColors(*color19*);

b4.setColors(*color20*);

b5.setColors(*color21*);

b6.setColors(*color22*);

b7.setColors(*color23*);

b8.setColors(*color24*);

**break**;

}

}

});

*rightbutton*.listenClick(evt -> {

**if** (*i* == 3)

{

*i* = 1;

}

**else**

{

*i*++;

}

**switch** (*i*) {

**case** 2: {

b1.setColors(*color1*);

b2.setColors(*color2*);

b3.setColors(*color3*);

b4.setColors(*color4*);

b5.setColors(*color5*);

b6.setColors(*color6*);

b7.setColors(*color7*);

b8.setColors(*color8*);

**break**;

}

**case** 1: {

b1.setColors(*color9*);

b2.setColors(*color10*);

b3.setColors(*color11*);

b4.setColors(*color12*);

b5.setColors(*color13*);

b6.setColors(*color14*);

b7.setColors(*color15*);

b8.setColors(*color16*);

**break**;

}

**case** 3: {

b1.setColors(*color17*);

b2.setColors(*color18*);

b3.setColors(*color19*);

b4.setColors(*color20*);

b5.setColors(*color21*);

b6.setColors(*color22*);

b7.setColors(*color23*);

b8.setColors(*color24*);

**break**;

}

}

});

*leftbutton*.listenMouseOut(evt -> Buttons.*lnoshineBtn*());

*rightbutton*.listenMouseOver(evt -> Buttons.*rshineBtn*());

*rightbutton*.listenMouseOut(evt -> Buttons.*rnoshineBtn*());

*checker*.listenClick(evt -> CheckBoxes.*checkornot*("chk"));

*checkergrad*.listenClick(evt -> CheckBoxes.*checkornot*("chkgrad"));

*checkerline*.listenClick(evt -> CheckBoxes.*checkornot*("chkline"));

//color1button.listenClick(evt -> Buttons.colorbutton1());

//color2button.listenClick(evt -> Buttons.colorbutton2());

//color3button.listenClick(evt -> Buttons.colorbutton3());

//color4button.listenClick(evt -> Buttons.colorbutton4());

//color5button.listenClick(evt -> Buttons.colorbutton5());

//color6button.listenClick(evt -> Buttons.colorbutton6());

//color7button.listenClick(evt -> Buttons.colorbutton7());

b1.add(evt -> {

b1.changeColor();

b1.changeColorLine();

b1.changeColorGrad();

});

b2.add(evt -> {

b2.changeColor();

b2.changeColorLine();

b2.changeColorGrad();

});

b3.add(evt -> {

b3.changeColor();

b3.changeColorLine();

b3.changeColorGrad();

});

b4.add(evt -> {

b4.changeColor();

b4.changeColorLine();

b4.changeColorGrad();

});

b5.add(evt -> {

b5.changeColor();

b5.changeColorLine();

b5.changeColorGrad();

});

b6.add(evt -> {

b6.changeColor();

b6.changeColorLine();

b6.changeColorGrad();

});

b7.add(evt -> {

b7.changeColor();

b7.changeColorLine();

b7.changeColorGrad();

});

b8.add(evt -> {

b8.changeColor();

b8.changeColorLine();

b8.changeColorGrad();

});

*btnup*.listenClick(evt -> Buttons.*buttonup*());

*btndown*.listenClick(evt -> Buttons.*buttondown*());

*btnup1*.listenClick(evt -> Buttons.*buttonup1*());

*btndown1*.listenClick(evt -> Buttons.*buttondown1*());

*btnup2*.listenClick(evt -> Buttons.*buttonup2*());

*btndown2*.listenClick(evt -> Buttons.*buttondown2*());

}

/\* public void foradd(){

HTMLElement Clrinbtn = document.getElementById("clrinbtn");

HTMLElement Clrline = document.getElementById("clrinbtnline");

Clrinbtn.setAttribute("style",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color:" + b1.getColorButton());

Clrline.setAttribute("style",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color:" + b1.getColorLine());

}\*/

}

Index.html:

<!DOCTYPE html>

<html>

<head>

<title>Main page</title>

<meta http-equiv="Content-Type" content="text/html;charset=utf-8">

<script type="text/javascript" charset="utf-8" src="teavm/runtime.js"></script>

<script type="text/javascript" charset="utf-8" src="teavm/classes.js"></script>

<link rel="stylesheet" type="text/css" href="https://jgraph.github.io/mxgraph/javascript/examples/grapheditor/www/styles/grapheditor.css">

<script src="https://www.draw.io/js/app.min.js"></script>

<style type="text/css">

.bgimg{

width:65px;

height:65px;

display: inline-block;

background-color: #808080;

background: #000 url(sidebar.jpg) no-repeat;

}

.geBackgroundPage{

position: absolute;

right:0px;

z-index:1;

background-color: whitesmoke;

overflow-x: hidden;

overflow-y: auto;

font-size: 12px;

top: 95px;

width: 240px;

bottom: 46px;

}

.geTopbar{

top: 95px;

width: 240px;

bottom: 46px;

}

.geLeftBtn{

position: absolute;

left: 10px;

top: 8px;

bottom: 8px;

width: 20px;

margin: 4px;

opacity: 0.5;

background-repeat: no-repeat;

background-position: center center;

background-image: url("");

}

.geRightBtn{

position: absolute;

left: 202px;

top: 8px;

bottom: 8px;

width: 20px;

margin: 4px;

opacity: 0.5;

background-repeat: no-repeat;

background-position: center center;

background-image: url("");

}

</style>

</head>

<body onload="main()">

<button class="geBackgroundPage" id="ArnBtn"style="top: 95px;width: 79.91px; height: 34.1px; opacity:0;z-index:10"></button>

<button class="geBackgroundPage" id="TxtBtn"style="top: 95px;right:79.91px;width: 79.91px; height: 34.1px; opacity:0;z-index:10"></button>

<button class="geBackgroundPage" id="StlBtn"style="top: 95px;right:159.82px;width: 79.91px; height: 34.1px; opacity:0;z-index:10"></button>

<button class="geBackgroundPage" id="LftBtn"style="top: 140px;right:205.73px;width: 20px; height: 84.24px; opacity:0;z-index:10"></button>

<button class="geBackgroundPage" id="RghtBtn"style="top: 140px;right:14.017px;width: 20px; height: 84.24px; opacity:0;z-index:10"></button>

<input type="checkbox", style="margin: 0px 6px 0px 0px;" id="chk" checked>

<input type="checkbox", style="margin: 0px 6px 0px 0px;" id="chkgrad">

<input type="checkbox", style="margin: 0px 6px 0px 0px;" id="chkline" checked>

<input type="checkbox", style="margin: 0px 6px 0px 0px;" id="chkshadow" checked>

<button class="geColorBtn" style="position: absolute; margin-top: -4px; right: 20px; height: 22px;" id="clrbtn"></button>

<div style="width:36px;height:12px;margin:3px;border:1px solid black;background-color:#e6d0de;" id="clrinbtn"></div>

<button class="geColorBtn" style="display: none;" id="clrbtngrd"></button>

<div style="width:36px;height:12px;margin:3px;border:1px solid black;background-color:#97d077;" id="clrinbtngrd"></div>

<button class="geColorBtn" style="position: absolute; margin-top: -4px; right: 20px; height: 22px;" id="clrbtnline"></button>

<div style="width:36px;height:12px;margin:3px;border:1px solid black;background-color:#000000;" id="clrinbtnline"></div>

<div class= "geBtnUp" style="border-bottom: 1px solid rgb(192, 192, 192); position: relative; height: 9px; width: 10px;" id="btnup"></div>

<div class= "geBtnDown" style="border: none; position: relative; height: 9px; width: 10px;" id="btndown"></div>

<div class= "geBtnUp" style="border-bottom: 1px solid rgb(192, 192, 192); position: relative; height: 9px; width: 10px;" id="btnup1"></div>

<div class= "geBtnDown" style="border: none; position: relative; height: 9px; width: 10px;" id="btndown1"></div>

<div class= "geBtnUp" style="border-bottom: 1px solid rgb(192, 192, 192); position: relative; height: 9px; width: 10px;" id="btnup2"></div>

<div class= "geBtnDown" style="border: none; position: relative; height: 9px; width: 10px;" id="btndown2"></div>

<!-- TODO: add HTML content -->

</body>

</html>

Buttons.java:

**import** org.teavm.jso.dom.html.HTMLElement;

**public** **class** Buttons

**extends** Client {

**public** **static** **void** buttonup() {

HTMLElement Element = *linewidth*;

*width*++;

String str = Integer.*toString*(*width*);

Element.setAttribute("value", str + "pt");

}

**public** **static** **void** buttondown() {

HTMLElement Element = *linewidth*;

*width*--;

String str = Integer.*toString*(*width*);

Element.setAttribute("value", str + "pt");

}

**public** **static** **void** buttonup2() {

HTMLElement Element = *opacityinput*;

*opacityint*++;

String str = Integer.*toString*(*opacityint*);

Element.setAttribute("value", str + "%");

}

**public** **static** **void** buttondown2() {

HTMLElement Element = *opacityinput*;

*opacityint*--;

String str = Integer.*toString*(*opacityint*);

Element.setAttribute("value", str + "%");

}

**public** **static** **void** buttonup1() {

HTMLElement Element = *perim*;

*perimeterint*++;

String str = Integer.*toString*(*perimeterint*);

Element.setAttribute("value", str + "pt");

}

**public** **static** **void** buttondown1() {

HTMLElement Element = *perim*;

*perimeterint*--;

String str = Integer.*toString*(*perimeterint*);

Element.setAttribute("value", str + "pt");

}

**public** **static** **void** arnBtn() {

CreateAttributes.*insert*(*style*, "",

"border-width: 0px 0px 1px 1px; border-style: solid; border-color: rgb(192, 192, 192); border-image: initial; text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%; background-color: rgb(215, 215, 215);",

*topbar*, "");

CreateAttributes.*insert*(*text*, "",

"border-width: 0px 0px 1px 1px; border-style: solid; border-color: rgb(192, 192, 192); border-image: initial; text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%; background-color: rgb(215, 215, 215);",

*topbar*, "");

CreateAttributes.*insert*(*arrange*, "",

"border: 0px solid rgb(192, 192, 192); text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%;",

*topbar*, "");

}

**public** **static** **void** txtBtn() {

CreateAttributes.*insert*(*style*, "",

"border-width: 0px 0px 1px 1px; border-style: solid; border-color: rgb(192, 192, 192); border-image: initial; text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%; background-color: rgb(215, 215, 215);",

*topbar*, "");

CreateAttributes.*insert*(*text*, "",

"border: 0px solid rgb(192, 192, 192); text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%;",

*topbar*, "");

CreateAttributes.*insert*(*arrange*, "",

"border-width: 0px 0px 1px 1px; border-style: solid; border-color: rgb(192, 192, 192); border-image: initial; text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%; background-color: rgb(215, 215, 215);",

*topbar*, "");

}

**public** **static** **void** stlBtn() {

CreateAttributes.*insert*(*style*, "",

"border: 0px solid rgb(192, 192, 192); text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%;",

*topbar*, "");

CreateAttributes.*insert*(*text*, "",

"border-width: 0px 0px 1px 1px; border-style: solid; border-color: rgb(192, 192, 192); border-image: initial; text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%; background-color: rgb(215, 215, 215);",

*topbar*, "");

CreateAttributes.*insert*(*arrange*, "",

"border-width: 0px 0px 1px 1px; border-style: solid; border-color: rgb(192, 192, 192); border-image: initial; text-align: center; font-weight: bold; overflow: hidden; display: inline-block; padding-top: 8px; height: 25px; width: 33.3%; background-color: rgb(215, 215, 215);",

*topbar*, "");

}

**public** **static** **void** changeclr(String ElementId, String Color) {

HTMLElement Element = *document*.getElementById(ElementId);

Element.removeAttribute("style");

Element.setAttribute("style", Color);

}

**public** **static** **void** lshineBtn() {

CreateAttributes.*insert*(*left*, "geLeftBtn", "opacity:1;", *allcolorblock*, "");

}

**public** **static** **void** rshineBtn() {

CreateAttributes.*insert*(*right*, "geRightBtn", "opacity:1;", *allcolorblock*, "");

}

**public** **static** **void** lnoshineBtn() {

CreateAttributes.*insert*(*left*, "geLeftBtn", "opacity:0.5;", *allcolorblock*, "");

}

**public** **static** **void** rnoshineBtn() {

CreateAttributes.*insert*(*right*, "geRightBtn", "opacity:0.5;", *allcolorblock*, "");

}

**public** **static** **void** left() {

**if** (*i* == 1)

{

*i* = 3;

}

**else**

{

*i*--;

}

**switch** (*i*) {

**case** 2: {

*changeclr*("clr1",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);");

*changeclr*("clr2",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(238, 238, 238); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr3",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(249, 247, 237); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr4",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 204, 153); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr5",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(204, 229, 255); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr6",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 255, 136); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr7",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(205, 235, 139); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr8",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 204, 204); border: 1px solid rgb(54, 57, 61);");

**break**;

}

**case** 1: {

*changeclr*("clr1",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);");

*changeclr*("clr2",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(245, 245, 245) 0px, rgb(179, 179, 179) 100%); border: 1px solid rgb(102, 102, 102);");

*changeclr*("clr3",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(218, 232, 252) 0px, rgb(126, 166, 224) 100%); border: 1px solid rgb(108, 142, 191);");

*changeclr*("clr4",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(213, 232, 212) 0px, rgb(151, 208, 119) 100%); border: 1px solid rgb(130, 179, 102);");

*changeclr*("clr5",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(255, 205, 40) 0px, rgb(255, 165, 0) 100%); border: 1px solid rgb(215, 155, 0);");

*changeclr*("clr6",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(255, 242, 204) 0px, rgb(255, 217, 102) 100%); border: 1px solid rgb(214, 182, 86);");

*changeclr*("clr7",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(248, 206, 204) 0px, rgb(234, 107, 102) 100%); border: 1px solid rgb(184, 84, 80);");

*changeclr*("clr8",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(230, 208, 222) 0px, rgb(213, 115, 157) 100%); border: 1px solid rgb(153, 97, 133);");

**break**;

}

**case** 3: {

*changeclr*("clr1",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);");

*changeclr*("clr2",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(245, 245, 245); border: 1px solid rgb(102, 102, 102);");

*changeclr*("clr3",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(218, 232, 252); border: 1px solid rgb(108, 142, 191);");

*changeclr*("clr4",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(213, 232, 212); border: 1px solid rgb(130, 179, 102);");

*changeclr*("clr5",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 230, 204); border: 1px solid rgb(215, 155, 0);");

*changeclr*("clr6",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 242, 204); border: 1px solid rgb(214, 182, 86);");

*changeclr*("clr7",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(248, 206, 204); border: 1px solid rgb(184, 84, 80);");

*changeclr*("clr8",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(225, 213, 231); border: 1px solid rgb(150, 115, 166);");

**break**;

}

}

}

**public** **static** **void** right() {

**if** (*i* == 3)

{

*i* = 1;

}

**else**

{

*i*++;

}

**switch** (*i*) {

**case** 2: {

*changeclr*("clr1",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);");

*changeclr*("clr2",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(238, 238, 238); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr3",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(249, 247, 237); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr4",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 204, 153); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr5",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(204, 229, 255); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr6",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 255, 136); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr7",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(205, 235, 139); border: 1px solid rgb(54, 57, 61);");

*changeclr*("clr8",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 204, 204); border: 1px solid rgb(54, 57, 61);");

**break**;

}

**case** 1: {

*changeclr*("clr1",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);");

*changeclr*("clr2",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(245, 245, 245) 0px, rgb(179, 179, 179) 100%); border: 1px solid rgb(102, 102, 102);");

*changeclr*("clr3",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(218, 232, 252) 0px, rgb(126, 166, 224) 100%); border: 1px solid rgb(108, 142, 191);");

*changeclr*("clr4",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(213, 232, 212) 0px, rgb(151, 208, 119) 100%); border: 1px solid rgb(130, 179, 102);");

*changeclr*("clr5",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(255, 205, 40) 0px, rgb(255, 165, 0) 100%); border: 1px solid rgb(215, 155, 0);");

*changeclr*("clr6",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(255, 242, 204) 0px, rgb(255, 217, 102) 100%); border: 1px solid rgb(214, 182, 86);");

*changeclr*("clr7",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(248, 206, 204) 0px, rgb(234, 107, 102) 100%); border: 1px solid rgb(184, 84, 80);");

*changeclr*("clr8",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-image: linear-gradient(rgb(230, 208, 222) 0px, rgb(213, 115, 157) 100%); border: 1px solid rgb(153, 97, 133);");

**break**;

}

**case** 3: {

*changeclr*("clr1",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);");

*changeclr*("clr2",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(245, 245, 245); border: 1px solid rgb(102, 102, 102);");

*changeclr*("clr3",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(218, 232, 252); border: 1px solid rgb(108, 142, 191);");

*changeclr*("clr4",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(213, 232, 212); border: 1px solid rgb(130, 179, 102);");

*changeclr*("clr5",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 230, 204); border: 1px solid rgb(215, 155, 0);");

*changeclr*("clr6",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(255, 242, 204); border: 1px solid rgb(214, 182, 86);");

*changeclr*("clr7",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(248, 206, 204); border: 1px solid rgb(184, 84, 80);");

*changeclr*("clr8",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; background-color: rgb(225, 213, 231); border: 1px solid rgb(150, 115, 166);");

**break**;

}

}

}

**public** **static** **void** colorbutton1() {

**switch** (*i*) {

**case** 2: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255, 255, 255);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #000000;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 1: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255, 255, 255);");

*changeclr*("clrinbtngrd",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255, 255, 255);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #000000;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 3: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255, 255, 255);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #000000;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

}

}

**public** **static** **void** colorbutton2() {

**switch** (*i*) {

**case** 2: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(238, 238, 238);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #000000;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 1: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(245,245,245);");

*changeclr*("clrinbtngrd",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #b3b3b3;");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #666666;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 3: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(245,245,245);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #666666;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

}

}

**public** **static** **void** colorbutton3() {

**switch** (*i*) {

**case** 2: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(249,247,237);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #000000;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 1: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(218,232,252);");

*changeclr*("clrinbtngrd",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #7ea6e0;");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #6c8ebf;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 3: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(218,232,252);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #6c8ebf;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

}

}

**public** **static** **void** colorbutton4() {

**switch** (*i*) {

**case** 2: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255,204,153);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #000000;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 1: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(213,232,212);");

*changeclr*("clrinbtngrd",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #97d077;");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #82b366;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 3: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(213,232,212);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #82b366;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

}

}

**public** **static** **void** colorbutton5() {

**switch** (*i*) {

**case** 2: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(204,229,255);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #000000;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 1: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255,205,40);");

*changeclr*("clrinbtngrd",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #ffa500;");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #d79b00;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 3: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255,230,204);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #d79b00;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

}

}

**public** **static** **void** colorbutton6() {

**switch** (*i*) {

**case** 2: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255,255,136);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #000000;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 1: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255,242,204);");

*changeclr*("clrinbtngrd",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #ffd966;");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #d6b656;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 3: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255,242,204);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #d6b656;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

}

}

**public** **static** **void** colorbutton7() {

**switch** (*i*) {

**case** 2: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(205,235,139);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #000000;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 1: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(248,206,204);");

*changeclr*("clrinbtngrd",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #ea6b66;");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #b85450;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 3: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(248,206,204);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #b85450;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

}

}

**public** **static** **void** colorbutton8() {

**switch** (*i*) {

**case** 2: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255,204,204);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #000000;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 1: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(230,208,222);");

*changeclr*("clrinbtngrd",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #d5739d;");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #996185;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

**case** 3: {

*changeclr*("clrinbtn",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: rgb(255,213,231);");

*changeclr*("clrinbtnline",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color: #996185;");

CheckBoxes.*checkforcolor*("chk");

CheckBoxes.*checkforline*("chkline");

**break**;

}

}

}

}

CheckBoxes.java:

**package** com.mydomain.MyCode;

**import** org.teavm.jso.dom.html.HTMLElement;

/\*\*

\* **@author** User

\*

\*/

**public** **class** CheckBoxes

**extends** Client {

**public** **static** **void** checkornot(String ElementId) {

HTMLElement Element = *document*.getElementById(ElementId);

**if** (Element.hasAttribute("checked"))

{

Element.removeAttribute("checked");

**if** (ElementId == "chkline")

{

HTMLElement LineElement = *document*.getElementById("clrbtnline");

LineElement.setAttribute("style", "display: none;");

}

**if** (ElementId == "chk")

{

HTMLElement GradElement = *document*.getElementById("chkgrad");

GradElement.setAttribute("style", "display: none;");

HTMLElement GradText = *grad*;

GradText.setAttribute("style", "display: none;");

HTMLElement ClrBtn = *document*.getElementById("clrbtn");

ClrBtn.setAttribute("style", "display: none;");

HTMLElement GrdBtn = *document*.getElementById("clrbtngrd");

GrdBtn.setAttribute("style", "display: none;");

HTMLElement Sel = *selectgrad*;

Sel.setAttribute("style", "display: none;");

}

**if** (ElementId == "chkgrad")

{

CreateAttributes.*insert*(*selectgrad*, "",

"position: absolute; margin-top: -2px; right: 72px; width: 70px;", *gradientblock*,

"South");

HTMLElement GrdBtn = *document*.getElementById("clrbtngrd");

GrdBtn.setAttribute("style", "display: none;");

HTMLElement Sel = *selectgrad*;

Sel.setAttribute("style", "display: none;");

}

}

**else**

{

Element.setAttribute("checked", "");

**if** (ElementId == "chkline")

{

HTMLElement LineElement = *document*.getElementById("clrbtnline");

LineElement.setAttribute("style", "position: absolute; margin-top: -4px; right: 20px; height: 22px;");

}

**if** (ElementId == "chk")

{

HTMLElement GradElement = *document*.getElementById("chkgrad");

GradElement.setAttribute("style", "margin: 0px 6px 0px 0px;");

HTMLElement GradText = *grad*;

GradText.setAttribute("style", "");

HTMLElement ClrBtn = *document*.getElementById("clrbtn");

ClrBtn.setAttribute("style", "position: absolute; margin-top: -4px; right: 20px; height: 22px;");

**if** (GradElement.hasAttribute("checked"))

{

HTMLElement GrdBtn = *document*.getElementById("clrbtngrd");

GrdBtn.setAttribute("style", "position: absolute; margin-top: -4px; right: 20px; height: 22px;");

CreateAttributes.*insert*(*selectgrad*, "",

"position: absolute; margin-top: -2px; right: 72px; width: 70px;",

*gradientblock*, "South");

}

}

**if** (ElementId == "chkgrad")

{

HTMLElement GrdBtn = *document*.getElementById("clrbtngrd");

GrdBtn.setAttribute("style", "position: absolute; margin-top: -4px; right: 20px; height: 22px;");

CreateAttributes.*insert*(*selectgrad*, "",

"position: absolute; margin-top: -2px; right: 72px; width: 70px;", *gradientblock*,

"South");

}

}

}

**public** **static** **void** checkforcolor(String ElementId) {

HTMLElement Element = *document*.getElementById(ElementId);

**if** (Element.hasAttribute("checked"))

{

Element.setAttribute("checked", "");

HTMLElement GradElement = *document*.getElementById("chkgrad");

**if** (GradElement.hasAttribute("checked"))

{

GradElement.click();

}

}

**else**

{

Element.click();

HTMLElement GradElement = *document*.getElementById("chkgrad");

**if** (GradElement.hasAttribute("checked"))

{

GradElement.click();

}

}

**if** (*i* == 1)

{

HTMLElement GradElement = *document*.getElementById("chkgrad");

**if** (GradElement.hasAttribute("checked"))

{

}

**else**

{

GradElement.click();

}

}

}

**public** **static** **void** checkforline(String ElementId) {

HTMLElement Element = *document*.getElementById(ElementId);

**if** (Element.hasAttribute("checked"))

{

Element.setAttribute("checked", "");

}

**else**

{

Element.click();

}

}

}

Child.java:

**package** com.mydomain.MyCode;

**import** org.teavm.jso.dom.html.HTMLElement;

/\*\*

\* **@author** User

\*

\*/

**public** **class** Child

**extends** Client {

**public** **static** **void** child(HTMLElement Child, String IdElement) {

HTMLElement Element = *document*.getElementById(IdElement);

**if** (Child != **null**)

{

Child.appendChild(Element);

}

**else**

{

*document*.getBody().appendChild(Element);

}

}

**public** **static** **void** childbyid(String IdChild, String IdElement) {

HTMLElement Child = *document*.getElementById(IdChild);

HTMLElement Element = *document*.getElementById(IdElement);

**if** (Child != **null**)

{

Child.appendChild(Element);

}

**else**

{

*document*.getBody().appendChild(Element);

}

}

}

CreateAttributes.java:

**package** com.mydomain.MyCode;

**import** org.teavm.jso.dom.html.HTMLElement;

/\*\*

\* **@author** User

\*

\*/

**public** **class** CreateAttributes

**extends** Client {

**public** **static** **void** insert(HTMLElement Element, String Class, String Style, HTMLElement Child, String Text) {

Element.setAttribute("class", Class);

Element.setAttribute("style", Style);

Element.setAttribute("href", "javascript:void(0)");

Element.appendChild(*document*.createTextNode(Text));

**if** (Child != **null**)

{

Child.appendChild(Element);

}

**else**

{

*document*.getBody().appendChild(Element);

}

}

**public** **static** **void** forinput(HTMLElement Element, String Class, String Style, HTMLElement Child, String Text,

String Title) {

Element.setAttribute("class", Class);

Element.setAttribute("style", Style);

Element.setAttribute("value", Text);

Element.setAttribute("title", Title);

**if** (Child != **null**)

{

Child.appendChild(Element);

}

**else**

{

*document*.getBody().appendChild(Element);

}

}

**public** **static** **void** fora(HTMLElement Element, String Class, String Style, HTMLElement Child, String Text) {

Element.setAttribute("href", "javascript:void(0)");

Element.setAttribute("title", Text);

Element.setAttribute("class", Class);

Element.setAttribute("style", Style);

**if** (Child != **null**)

{

Child.appendChild(Element);

}

**else**

{

*document*.getBody().appendChild(Element);

}

}

**public** **static** **void** forimg(HTMLElement Element, String Class, String Style, HTMLElement Child, String Text) {

Element.setAttribute("src", Text);

Element.setAttribute("border", Class);

Element.setAttribute("style", Style);

**if** (Child != **null**)

{

Child.appendChild(Element);

}

**else**

{

*document*.getBody().appendChild(Element);

}

}

**public** **static** **void** foroption(HTMLElement Element, String Value, HTMLElement Child, String Text) {

Element.setAttribute("value", Value);

Element.appendChild(*document*.createTextNode(Text));

**if** (Child != **null**)

{

Child.appendChild(Element);

}

**else**

{

*document*.getBody().appendChild(Element);

}

}

}

ColorButton.java:

**package** com.mydomain.MyCode;

**import** org.teavm.jso.dom.events.EventListener;

**import** org.teavm.jso.dom.events.MouseEvent;

**import** org.teavm.jso.dom.events.MouseEventTarget;

**import** org.teavm.jso.dom.html.HTMLDocument;

**import** org.teavm.jso.dom.html.HTMLElement;

/\*\*

\* **@author** User

\*

\*/

**public** **class** ColorButton {

**public** **static** HTMLDocument document = HTMLDocument.current();

String color = "";

String colorLine = "";

String colorGrad = "";

/\*"background-color: rgb(255, 255, 255); border: 1px solid rgb(0, 0, 0);";\*/

HTMLElement NewButton;

ColorButton(String IdElement, String Color, HTMLElement Parent) {

NewButton = document.createElement("button");

NewButton.setAttribute("id", IdElement);

NewButton.setAttribute("style", "width: 36px; height: 30px; margin: 0px 6px 6px 0px;" + Color);

color = Color.substring(Color.indexOf("background-color:") + 17, Color.indexOf("border"));

colorLine = Color.substring(Color.indexOf("solid") + 5);

**if** (Color.indexOf("gradient") != -1)

{

colorGrad = Color.substring(Color.indexOf("0px") + 4, Color.indexOf("100%"));

color = Color.substring(Color.indexOf("background:") + 33, Color.indexOf("0px"));

}

**else**

{

colorGrad = "rgb(255,255,255)";

}

**if** (Parent != **null**)

{

Parent.appendChild(NewButton);

}

**else**

{

document.getBody().appendChild(NewButton);

}

// ((MouseEventTarget)NewButton.cast()).listenClick();

}

**public** **void** setColors(String Color) {

NewButton.setAttribute("style",

"width: 36px; height: 30px; margin: 0px 6px 6px 0px; " + Color);

color = Color.substring(Color.indexOf("background-color:") + 17, Color.indexOf("border"));

colorLine = Color.substring(Color.indexOf("solid") + 5);

**if** (Color.indexOf("gradient") != -1)

{

colorGrad = Color.substring(Color.indexOf("0px") + 4, Color.indexOf("100%"));

color = Color.substring(Color.indexOf("background:") + 33, Color.indexOf("0px"));

}

**else**

{

colorGrad = "rgb(255,255,255)";

}

}

**public** **void** add(EventListener<MouseEvent> listener) {

((MouseEventTarget)NewButton.cast()).listenClick(evt -> {

listener.handleEvent(evt);

});

};

**public** String getAttribute() {

String Name = NewButton.getAttribute("style");

**return** Name;

}

**public** String getColorButton() {

**return** color;

}

**public** String getColorLine() {

**return** colorLine;

}

**public** **void** changeColor() {

HTMLElement Clrinbtn = document.getElementById("clrinbtn");

Clrinbtn.setAttribute("style",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color:" + color);

}

**public** **void** changeColorLine() {

HTMLElement Clrline = document.getElementById("clrinbtnline");

Clrline.setAttribute("style",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color:" + colorLine);

}

**public** **void** changeColorGrad() {

HTMLElement Clrline = document.getElementById("clrinbtngrd");

Clrline.setAttribute("style",

"width:36px;height:12px;margin:3px;border:1px solid black;background-color:" + colorGrad);

}

}

Итоговая веб-страница:

