

# VG100 — Introduction to Engineering

## Project 1 Report (Team 1)

### Rubric

- Game Design (10 pts)
- Code Quality (50 pts)
- Readme (15 pts)
- Personal work (20 pts)

## 1 Game Design

Not included in this report.

## 2 Code Quality

Your total score of this part is 46/50.

All related information is listed below:

1 point(s) **deduction**, duplicate code , in file [Model.elm](#), lines [60-118](#).

```
60  setBlockPos : (Float, Float) -> Block
61  setBlockPos (x,y) =
62      { category = SimpleBlock
63      , color = Color.fromName "red"
64      , rect =
65          { width = 90
66          , height = 45
67          , centerPos = ( x , y )
68          }
69      , isDestroyed = False
```

...

```
109 setBallBlockPos (x,y) =
110     { category = BallBlock
111     , color = Color.fromName "red"
112     , rect =
113         { width = 90
114         , height = 45
115         , centerPos = ( x , y )
116         }
117     , isDestroyed = False
118     }
```

1 point(s) **deduction**, hard-coded contents, in file [Model.elm](#), lines [144-168](#).

```
144 loadStage : Int -> Model -> Model
145 loadStage stage model =
146     let
147         x =
148             case stage of
149                 2 ->
```

150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168

```
[setBlockPos (45,22.5), setStrongBlock-
  → Pos (136,22.5), setBlockPos (227, 22.5), setSolidBlockPos (318, 22.5), setBlockPos (409, 22.5), setBlockPos (500,
  → 22.5),setBlockPos(591,22.5),setStrongBlockPos(682,22.5),setBlockPos(773,22.5),setBlockPos(864,22.5),setTreasureBlockPos(95
,setBlockPos (45,71.5), setBlockPos (136,71.5), setBlockPos (227, 71.5), setBlockPos (318, 71.5),
  → setTreasureBlockPos (409, 71.5), setBlockPos (500,
  → 71.5),setTreasureBlockPos(591,71.5),setBlockPos(682,71.5),setBlockPos(773,71.5),setBlockPos(864,71.5),setStrongBlockPos(95
,setBlockPos (45,120.5), setTreasureBlockPos (136,120.5), setBlockPos (227, 120.5), setStrongBlockPos (318, 120.5),
  → setBlockPos (409, 120.5), setBlockPos (500,
  → 120.5),setBlockPos(591,120.5),setBlockPos(682,120.5),setTreasureBlockPos(773,120.5),setBlockPos(864,120.5),setStrongBlockP
,setTreasureBlockPos (45,169.5), setStrongBlockPos (136,169.5), setBallBlockPos (227, 169.5), setBlockPos (318,
  → 169.5), setTreasureBlockPos (409, 169.5), setBlockPos (500,
  → 169.5),setBlockPos(591,169.5),setSolidBlockPos(682,169.5),setStrongBlockPos(773,169.5),setBlockPos(864,169.5),setBlockPos(
,setStrongBlockPos (45,218.5), setTreasureBlockPos (136,218.5), setBlockPos (227, 218.5), setSolidBlockPos (318,
  → 218.5), setBlockPos (409, 218.5), setStrongBlockPos (500,
  → 218.5),setBlockPos(591,218.5),setStrongBlockPos(682,218.5),setTreasureBlockPos(773,218.5),setBlockPos(864,218.5),setBlockP
  → ]

3 ->
[setSolidBlockPos (45,22.5), setTreasureBlock-
  → Pos (136,22.5), setBlockPos (227, 22.5), setBlockPos (318, 22.5), setBlockPos (409, 22.5), setSolidBlockPos (500,
  → 22.5),setBlockPos(591,22.5),setStrongBlockPos(682,22.5),setBlockPos(773,22.5),setBlockPos(864,22.5),setStrongBlockPos(955,
,setBlockPos (45,71.5), setBlockPos (136,71.5), setStrongBlockPos (227, 71.5), setBlockPos (318, 71.5), setBlockPos
  → (409, 71.5), setBlockPos (500,
  → 71.5),setStrongBlockPos(591,71.5),setTreasureBlockPos(682,71.5),setBlockPos(773,71.5),setStrongBlockPos(864,71.5),setBlock
,setBlockPos (45,120.5), setTreasureBlockPos (136,120.5), setBlockPos (227, 120.5), setBlockPos (318, 120.5),
  → setTreasureBlockPos (409, 120.5), setBlockPos (500,
  → 120.5),setBallBlockPos(591,120.5),setBlockPos(682,120.5),setSolidBlockPos(773,120.5),setTreasureBlockPos(864,120.5),setBlock
,setBlockPos (45,169.5), setStrongBlockPos (136,169.5), setTreasureBlockPos (227, 169.5), setBlockPos (318, 169.5),
  → setBlockPos (409, 169.5), setStrongBlockPos (500,
  → 169.5),setTreasureBlockPos(591,169.5),setBlockPos(682,169.5),setBlockPos(773,169.5),setBlockPos(864,169.5),setBlockPos(955,2
,setSolidBlockPos (45,218.5), setBlockPos (136,218.5), set-
  → StrongBlockPos (227, 218.5), setBlockPos (318, 218.5), setTreasureBlockPos (409, 218.5), setSolidBlockPos (500,
  → 218.5),setBlockPos(591,218.5),setBlockPos(682,218.5),setStrongBlockPos(773,218.5),setBlockPos(864,218.5),setBlockPos(955,2
  → ]

4 ->
[setTreasureBlockPos (45,22.5), setStrongBlockPos (136,22.5), setBlockPos (227, 22.5), setBlockPos (318, 22.5),
  → setTreasureBlockPos (409, 22.5), setBlockPos (500,
  → 22.5),setSolidBlockPos(591,22.5),setBlockPos(682,22.5),setBlockPos(773,22.5),setTreasureBlockPos(864,22.5),setTreasureBlock
,setStrongBlockPos (45,71.5), setBlockPos (136,71.5), setStrongBlockPos (227, 71.5), setBallBlockPos (318, 71.5),
  → setBlockPos (409, 71.5), setBlockPos (500,
  → 71.5),setBlockPos(591,71.5),setBlockPos(682,71.5),setBlockPos(773,71.5),setBlockPos(864,71.5),setBlockPos(955,71.5),setBlock
,setBlockPos (45,120.5), setTreasureBlockPos (136,120.5), setBlockPos (227, 120.5), setSolidBlockPos (318, 120.5),
  → setBlockPos (409, 120.5), setTreasureBlockPos (500,
  → 120.5),setBlockPos(591,120.5),setBlockPos(682,120.5),setBlockPos(773,120.5),setTreasureBlockPos(864,120.5),setBlockPos(955
,setTreasureBlockPos (45,169.5), setStrongBlockPos (136,169.5), setBlockPos (227, 169.5), setSolidBlockPos (318,
  → 169.5), setBlockPos (409, 169.5), setStrongBlockPos (500,
  → 169.5),setSolidBlockPos(591,169.5),setBlockPos(682,169.5),setStrongBlockPos(773,169.5),setStrongBlockPos(864,169.5),setBlo
,setStrongBlockPos (45,218.5), setBlockPos (136,218.5), setSolidBlockPos (227, 218.5), setBlockPos (318, 218.5),
  → setStrongBlockPos (409, 218.5), setBlockPos (500,
  → 218.5),setBlockPos(591,218.5),setStrongBlockPos(682,218.5),setTreasureBlockPos(773,218.5),setBlockPos(864,218.5),setBlockP
  → ]

- ->
initialBlocks
```

1 point(s) deduction, too long function, in file [Update.elm](#), lines 11-160.

11 update msg model =



2 point(s) **deduction**, elm-stuff in git repo.

2 point(s) **bonus**, some documentations found.

### **3 Readme**

Not included in this report.

### **4 Personal work**

Not included in this report.