Text Library Testing Plan

Plan Progress: Complete

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Testing Progress: Complete

Tested by: Zhihao Ma

Module Version: TextBox v3.0:

| Test Case | Test Criteria | Input value | Expected Result | Actual Result | Pass/Fail |
| --- | --- | --- | --- | --- | --- |
| TextBox |  |  | testGetWidth() = 100,  testGetHeight() = 100,  testGetX() = 0,  testGetY() = 0,  testGetFontSize = 10, |  | Pass |
| setBoxWidth | successful modified value | 200 | testGetWidth() = 200 |  | Pass |
| catch incorrect value | -10 | testGetWidth() = 100 |  | Fail |
| setBoxHeight | successful modified value | 200 | testGetHeight = 200 |  | Pass |
| catch incorrect value | -10 | testGetHeight = 100 |  | Fail |
| setPositionX | successful modified value | 200 | testGetX() = 200 |  | Pass |
| catch incorrect value | -10 | testGetX() = 0 | 100 | Fail |
| setPositionY | successful modified value | 200 | testGetY() = 200 |  | Pass |
| catch incorrect value | -10 | testGetY() = 0 | 100 | Fail |
| setOrigin | Centre | TextBox.Origin.CENTRE | testGetX() = -50,  testGetY() = -50 | 50 | Fail |
| Corner | TextBox.Origin.CORNER | testGetX() = 0,  testGetY() = 0, |  | Pass |
| setContent | String short enough to fit box | “Hello” | testGetFontSize = 10 |  | Pass |
| String too long to fit box | You pick | testGetFontSize < 10 |  | Pass |
| setFontName | Valid font name | “Calibri” | testGetFontName = “calibri” |  | Pass |
| Invalid font name | “qwerty” | testGetFontName = “system regular” |  | Pass |
| setFontColour(String) | Valid Hexadecimal | “#fcba03” | testGetFontColour = “0xfcba03ff” |  | Pass |
| Invalid hexadecimal | “Hello” | testGetFontColour = “0x000000ff” |  | Pass |
| setFontColour(Color) | Valid JavaFX Color | Color.BLUE | testGetFontColour = “0x0000ffff” |  | Pass |
| setFontSize | Font size which fits in the box | 12 | testGetFontSize = 12 |  | Pass |
| Font size too large for the box | 200 | testGetFontSize < 200 |  | Pass |
| Invalid value | -15 | testGetFontSize = 10 |  | Fail |
| setBoxLineSpacing | Value which fits the box | 5 | testGetFontSize = 10 |  | Pass |
| Value which does not fit the box | 10 | testGetFontSize < 10 |  | Pass |
| Invalid value | -5 | testGetLineSpacing = 1.5 |  | Fail |
| addContent | String short enough to fit box | “Hello” | testGetFontSize = 10 |  | Pass |
| String too long to fit box | You pick | testGetFontSize < 10 |  | Pass |
| setTextOrigin | Centre | TextBox.Origin.CENTRE | Text Shown in centre |  | Pass |
| Corner | TextBox.Origin.CORNER | Text Shown in corner |  | Pass |
| addBackground | Box drawn with background | N/A | testGetBackgroundColour = “0xffffffff” |  | Pass |
| removeBackground | Box drawn without background | N/A | testGetBackgroundColour = “0xffffff00” |  | Pass |
| setBackgroundColour(String) | Valid Hexadecimal | “#fcba03” | testGetBackgroundColour = “0xfcba03ff” |  | Pass |
| Invalid hexadecimal | “Hello” | testGetBackgroundColour = “0xffffffff” |  | Pass |
| setBackgroundColour(Color) | Valid JavaFX Color | Color.BLUE | testGetBackgroundColour = “0x0000ffff” |  | Pass |
| addBorder | Box drawn without border | N/A | testGetBorderColour = 0x000000ff |  | Pass |
| removeBorder | Box drawn with border | N/A | testGetBorderColour = “0x00000000” |  | Pass |
| setBorderWidth | Valid value | 10 | testGetStrokeWidth = 10 |  | Pass |
| Invalid value | -4 | testGetStrokeWidth = 1 | 0 | Fail |
| setBorderColour(String) | Valid Hexadecimal | “#fcba03” | testGetBorderColour = “0xfcba03ff” |  | Pass |
| Invalid hexadecimal | “Hello” | testGetBorderColour = “0x000000ff” |  | Pass |
| setBorderColour(Color) | Valid JavaFX Color | Color.BLUE | testGetBorderColour = “0x0000ffff” |  | Pass |
| setMargin | Valid Margin | 4 | testGetMargin = 4 |  | Pass |
| Invalid Value, too large | 100 | testGetMargin = 0 |  | Pass |
| Invalid Value, negative | -10 | testGetMargin = 0 |  | Fail |
| setCornerRadius | Valid Corner radius | 30 | testGetCornerRadius = 30 |  | Pass |
| Invalid Value, too large | 51 | testGetCornerRadius = 0 |  | Pass |
| Invalid Value, negative | -5 | testGetCornerRadius = 0 |  | Fail |
| setDelay | Valid On time, off time | (1 , 2) | Text appears /disappears as expected |  | Pass |
| Invalid On time | (-1, 2) | Text shown from start |  | Pass |
| Invalid off time | (1, -2) | Text remains shown |  | Pass |

Module Version: TextBox v3.1:

| Test Case | Test Criteria | Input value | Expected Result | Actual Result | Pass/Fail |
| --- | --- | --- | --- | --- | --- |
| setBoxWidth | catch incorrect value | -10 | testGetWidth() = 100 |  | Pass |
| setBoxHeight | catch incorrect value | -10 | testGetHeight = 100 |  | Pass |
| setPositionX | catch incorrect value | -10 | testGetX() = 0 |  | Pass |
| setPositionY | catch incorrect value | -10 | testGetY() = 0 |  | Pass |
| setFontSize | Invalid value | -15 | testGetFontSize = 10 |  | Pass |
| setCornerRadius | Invalid Value, negative | -5 | testGetCornerRadius = 0 |  | Pass |