

按钮与进度条类组件

1 单选按钮组件(RadioButton)

```
<RadioContainer
  ohos:id="$+id:rc"
  ohos:height="match_content"
  ohos:width="match_content"
  ohos:top_margin="25vp">

  <RadioButton
    ohos:height="match_content"
    ohos:width="match_content"
    ohos:layout_alignment="left"
    ohos:marked="true"
    ohos:text="中文"
    ohos:text_size="45vp"
    ohos:text_color_off="#ffffff"
    ohos:text_color_on="#ff7f27"
  />

  <RadioButton
    ohos:height="match_content"
    ohos:width="match_content"
    ohos:layout_alignment="left"
    ohos:text="English"
    ohos:text_size="45vp"
    ohos:text_color_off="#ffffff"
    ohos:text_color_on="#ff7f27"
  />

  <RadioButton
    ohos:height="match_content"
    ohos:width="match_content"
    ohos:layout_alignment="left"
    ohos:text="日本語"
    ohos:text_size="45vp"
    ohos:text_color_off="#ffffff"
    ohos:text_color_on="#ff7f27"
  />

</RadioContainer>
```

```
((RadioContainer)findViewById(ResourceTable.Id_rc))
    .setMarkChangeListener(new CheckedStateChangedListener() {
        @Override
        public void onCheckedChanged(RadioContainer radioContainer, int i) {
            switch (i) {
                case 0:
                    text.setText("选择语言: 中文");
                    break;
                case 1:
                    text.setText("Select Language: English");
                    break;
                case 2:
                    text.setText("言語を選択: 日本語");
                    break;
            }
        }
    });
```

例程: RadioButton

...\RadioButton\entry\src\main\resources\base\layout\ability_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<DirectionalLayout
  xmlns:ohos="http://schemas.huawei.com/res/ohos"
  ohos:height="match_parent"
  ohos:width="match_parent"
  ohos:alignment="center"
  ohos:orientation="vertical"
  ohos:background_element="#0000ff">

  <Text
    ohos:id="$+id:txt"
    ohos:height="match_content"
    ohos:width="match_content"
    ohos:text_size="24vp"
    ohos:text_color="#ffffff"
  />

  <RadioContainer
    ohos:id="$+id:rc"
    ohos:height="match_content"
    ohos:width="match_content"
    ohos:top_margin="24vp">

    <RadioButton
      ohos:height="match_content"
      ohos:width="match_content"
      ohos:layout_alignment="left"
      ohos:marked="true"
      ohos:text="中文"
      ohos:text_size="24vp"
      ohos:text_color_off="#ffffff"
      ohos:text_color_on="#ff7f27"
    />

    <RadioButton
      ohos:height="match_content"
      ohos:width="match_content"
      ohos:layout_alignment="left"
      ohos:text="English"
      ohos:text_size="24vp"
      ohos:text_color_off="#ffffff"
      ohos:text_color_on="#ff7f27"
    />

    <RadioButton
      ohos:height="match_content"
      ohos:width="match_content"
      ohos:layout_alignment="left"
      ohos:text="日本語"
      ohos:text_size="24vp"
      ohos:text_color_off="#ffffff"
      ohos:text_color_on="#ff7f27"
    />

  </RadioContainer>

</DirectionalLayout>
```

```
</RadioContainer>
```

```
</LinearLayout>
```

...\RadioButton\entry\src\main\java\com\minwei\radiobutton\slice>MainAbilitySlice.java

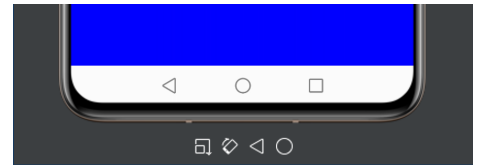
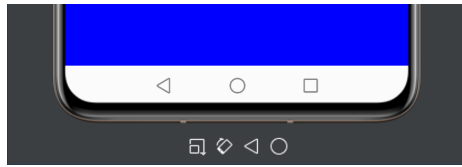
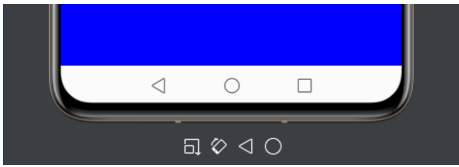
```
public class MainAbilitySlice extends AbilitySlice {
    @Override
    public void onStart(Intent intent) {
        ...
        String[] languages = new String[] {
            "选择语言： 中文",
            "Select Language: English",
            "言語を選択： 日本語"};

        Text text = ((Text)findViewById(ResourceTable.Id_txt));
        text.setText(languages[((RadioContainer)findViewById(
            ResourceTable.Id_rc)).getMarkedButtonId()]);

        ((RadioContainer)findViewById(ResourceTable.Id_rc))
            .setMarkChangeListener(new CheckedStateChangeListener() {
                @Override
                public void onCheckedChanged(
                    RadioContainer radioContainer, int i) {
                    text.setText(languages[i]);
                }
            });
    }
    ...
}
```

运行效果如下图所示：





2 复选框组件(Checkbox)

```
<DirectionalLayout
  ohos:height="match_content"
  ohos:width="match_content"
  ohos:top_margin="25vp">

  <Checkbox
    ohos:id="$+id:cbplusplus"
    ohos:height="match_content"
    ohos:width="match_content"
    ohos:layout_alignment="left"
    ohos:marked="true"
    ohos:text="C++"
    ohos:text_size="45vp"
    ohos:text_color_off="#ffffff"
    ohos:text_color_on="#ff7f27"
  />

  <Checkbox
    ohos:id="$+id:cbJava"
    ohos:height="match_content"
    ohos:width="match_content"
    ohos:layout_alignment="left"
    ohos:marked="true"
    ohos:text="Java"
    ohos:text_size="45vp"
    ohos:text_color_off="#ffffff"
    ohos:text_color_on="#ff7f27"
  />

  <Checkbox
    ohos:id="$+id:cbPyhon"
    ohos:height="match_content"
    ohos:width="match_content"
    ohos:layout_alignment="left"
    ohos:marked="true"
    ohos:text="Python"
    ohos:text_size="45vp"
    ohos:text_color_off="#ffffff"
    ohos:text_color_on="#ff7f27"
  />

</DirectionalLayout>
```

```
cbCplusplus.setClickedListener(new ClickedListener() {
    @Override
    public void onClick(Component component) {
        updateCourses(true, false, false);
    }
});
cbJava.setClickedListener(new ClickedListener() {
    @Override
    public void onClick(Component component) {
        updateCourses(false, true, false);
    }
});
cbPython.setClickedListener(new ClickedListener() {
    @Override
    public void onClick(Component component) {
        updateCourses(false, false, true);
    }
});
```

例程: Checkbox

...\Checkbox\entry\src\main\resources\base\layout\lability_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<DirectionalLayout
  xmlns:ohos="http://schemas.huawei.com/res/ohos"
  ohos:height="match_parent"
  ohos:width="match_parent"
  ohos:alignment="center"
  ohos:orientation="vertical"
  ohos:background_element="#0000ff">

  <Text
    ohos:id="$+id:txt"
    ohos:height="match_content"
    ohos:width="match_content"
    ohos:text_size="24vp"
    ohos:text_color="#ffffff"
  />

  <DirectionalLayout
    ohos:height="match_content"
    ohos:width="match_content"
    ohos:top_margin="24vp">

    <Checkbox
      ohos:id="$+id:cbplusplus"
      ohos:height="match_content"
      ohos:width="match_content"
      ohos:layout_alignment="left"
      ohos:marked="true"
      ohos:text="C++"
      ohos:text_size="24vp"
      ohos:text_color_off="#ffffff"
      ohos:text_color_on="#ff7f27"
    />

    <Checkbox
      ohos:id="$+id:cbJava"
      ohos:height="match_content"
      ohos:width="match_content"
      ohos:layout_alignment="left"
      ohos:marked="true"
      ohos:text="Java"
      ohos:text_size="24vp"
      ohos:text_color_off="#ffffff"
      ohos:text_color_on="#ff7f27"
    />

    <Checkbox
      ohos:id="$+id:cbPyhon"
      ohos:height="match_content"
      ohos:width="match_content"
      ohos:layout_alignment="left"
      ohos:marked="true"
      ohos:text="Python"
      ohos:text_size="24vp"
    />
  </DirectionalLayout>
</DirectionalLayout>
```

```
ohos:text_color_off="#ffffff"  
ohos:text_color_on="#ff7f27"  
</>
```

```
</DirectionalLayout>
```

```
</DirectionalLayout>
```

...\Checkbox\entry\src\main\java\com\minwei\checkbox\slice\MainAbilitySlice.java


```

public class MainAbilitySlice extends AbilitySlice {
    private Text text = null;
    private Checkbox cbCplusplus = null;
    private Checkbox cbJava = null;
    private Checkbox cbPython = null;

    @Override
    public void onStart(Intent intent) {
        ...
        text = ((Text)findViewById(ResourceTable.Id_txt));
        cbCplusplus = (Checkbox)findViewById(
            ResourceTable.Id_cbCplusplus);
        cbJava = (Checkbox)findViewById(
            ResourceTable.Id_cbJava);
        cbPython = (Checkbox)findViewById(
            ResourceTable.Id_cbPyhon);

        updateCourses(false, false, false);

        cbCplusplus.setClickedListener(new ClickedListener() {
            @Override
            public void onClick(Component component) {
                updateCourses(true, false, false);
            }
        });
        cbJava.setClickedListener(new ClickedListener() {
            @Override
            public void onClick(Component component) {
                updateCourses(false, true, false);
            }
        });
        cbPython.setClickedListener(new ClickedListener() {
            @Override
            public void onClick(Component component) {
                updateCourses(false, false, true);
            }
        });
    }
    ...
    private void updateCourses(
        Boolean cplusplus, Boolean java, Boolean python) {
        String courses = "选择课程: ";
        if (cplusplus) {
            if (!cbCplusplus.isChecked()) courses += "C++ ";
        }
        else if (cbCplusplus.isChecked()) courses += "C++ ";
        if (java) {
            if (!cbJava.isChecked()) courses += "Java ";
        }
        else if (cbJava.isChecked()) courses += "Java ";
        if (python) {
            if (!cbPython.isChecked()) courses += "Python";
        }
        else if (cbPython.isChecked()) courses += "Python";
    }
}

```

```
text.setText(courses);  
}  
}
```

运行效果如下图所示:



3 进度条组件(ProgressBar)

直线进度条:

```
<ProgressBar  
  ohos:id="$+id:pb"  
  ohos:height="100vp"  
  ohos:width="800vp"  
  ohos:progress_width="20vp"  
  ohos:progress_color="#00a2e8"  
  ohos:min="0"  
  ohos:max="30"  
>
```

(椭圆)圆进度条:

```
<RoundProgressBar  
  ohos:id="$+id:rpb"  
  ohos:height="200vp"  
  ohos:width="300vp"  
  ohos:progress_width="20vp"  
  ohos:progress_color="#ff7f27"  
  ohos:min="0"  
  ohos:max="60"  
>
```

```
int[] progs = {
    progressBar.getProgress() + steps[0],
    roundProgressBar.getProgress() + steps[1]};

progressBar.setProgressValue(progs[0]);
roundProgressBar.setProgressValue(progs[1]);

if (progs[0] == progressBar.getMax() ||
    progs[0] == progressBar.getMin())
    steps[0] *= -1;
if (progs[1] == roundProgressBar.getMax() ||
    progs[1] == roundProgressBar.getMin())
    steps[1] *= -1;
```

例程: ProgressBar

...\ProgressBar\entry\src\main\resources\base\layout\ability_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<DirectionalLayout
  xmlns:ohos="http://schemas.huawei.com/res/ohos"
  ohos:height="match_parent"
  ohos:width="match_parent"
  ohos:left_padding="30vp"
  ohos:top_padding="12vp"
  ohos:right_padding="30vp"
  ohos:alignment="center"
  ohos:orientation="vertical"
  ohos:background_element="#000000">

  <Text
    ohos:id="$+id:txt"
    ohos:height="match_content"
    ohos:width="match_content"
    ohos:text_size="28fp"
    ohos:text_color="#ffffff"
  />

  <ProgressBar
    ohos:id="$+id:pb"
    ohos:height="match_content"
    ohos:width="match_parent"
    ohos:top_margin="10vp"
    ohos:progress_width="10vp"
    ohos:progress_color="#00a2e8"
    ohos:min="0"
    ohos:max="30"
  />

  <RoundProgressBar
    ohos:id="$+id:rpb"
    ohos:height="match_parent"
    ohos:width="match_parent"
    ohos:top_margin="20vp"
    ohos:bottom_margin="40vp"
    ohos:progress_width="10vp"
    ohos:progress_color="#ff7f27"
    ohos:min="0"
    ohos:max="60"
  />

</DirectionalLayout>
```

...\ProgressBar\entry\src\main\java\com\minwei\progressbar\slice>MainAbilitySlice.java

```

public class MainAbilitySlice extends AbilitySlice {
    private Text text = null;
    private ProgressBar progressBar = null;
    private RoundProgressBar roundProgressBar = null;
    private Timer timer = null;

    @Override
    public void onStart(Intent intent) {
        ...
        text = (Text)findViewById(ResourceTable.Id_txt);
        progressBar = (ProgressBar)findViewById(
            ResourceTable.Id_pb);
        roundProgressBar = (RoundProgressBar)findViewById(
            ResourceTable.Id_rpb);

        startTimer();
    }
    ...
    @Override
    public void onStop() {
        stopTimer();
    }
    ...
    private void startTimer() {
        timer = new Timer();

        timer.schedule(new TimerTask() {
            private int hour = 0, min = 0, sec = 0;
            private int[] steps = {1, 1};

            @Override
            public void run() {
                if (++sec == 60) {
                    sec = 0;
                    if (++min == 60) {
                        min = 0;
                        if (++hour == 100)
                            hour = 0;
                    }
                }
            }
        });

        int[] progs = {
            progressBar.getProgress() + steps[0],
            roundProgressBar.getProgress() + steps[1]};

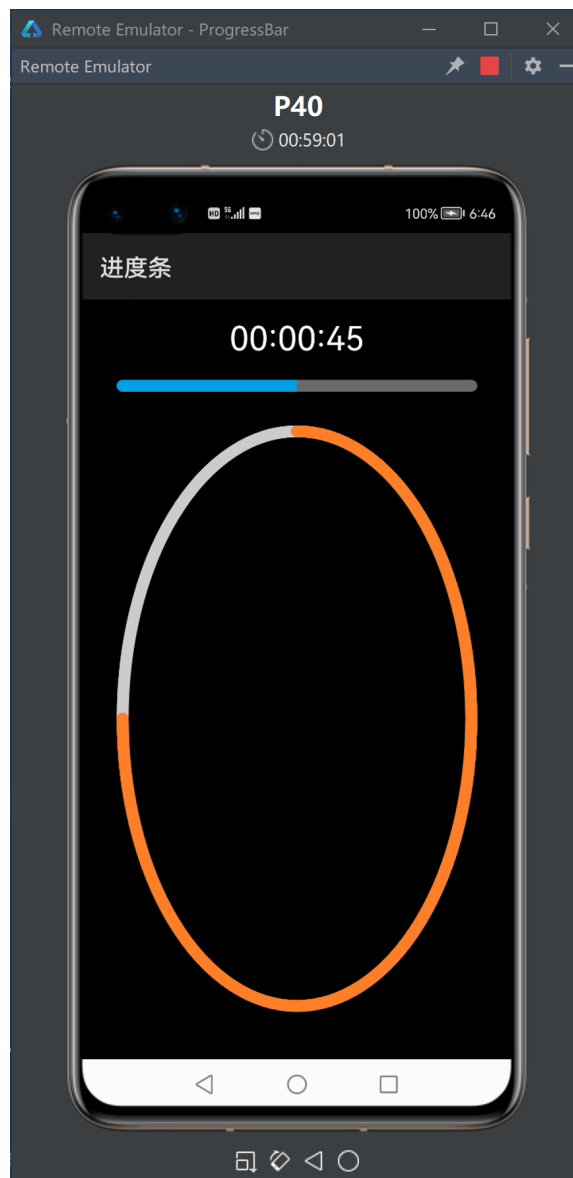
        getUITaskDispatcher().asyncDispatch(new Runnable() {
            @Override
            public void run() {
                text.setText(String.format(
                    "%02d:%02d:%02d", hour, min, sec));
                progressBar.setProgressValue(progs[0]);
                roundProgressBar.setProgressValue(progs[1]);
            }
        });
    }
}

```

```
        if (progs[0] == progressBar.getMax() ||
            progs[0] == progressBar.getMin())
            steps[0] *= -1;
        if (progs[1] == roundProgressBar.getMax() ||
            progs[1] == roundProgressBar.getMin())
            steps[1] *= -1;
    }
}, 1000, 1000);
}

private void stopTimer() {
    timer.cancel();
    timer = null;
}
}
```

运行效果如下图所示：



4 滑竿组件(Slider)

```
<Slider
    ohos:id="$+id:sldRed"
    ohos:height="80vp"
    ohos:width="400vp"
    ohos:progress_width="20vp"
    ohos:progress_color="#ff0000"
    ohos:min="0"
    ohos:max="255"
/>
```

```
((Slider)findViewById(ResourceTable.Id_sldRed))
    .setValueChangedListener(new ValueChangeListener() {
    @Override
    public void onProgressUpdated(Slider slider, int i, boolean b) {
        red = i;
        updateBackground();
    }

    @Override
    public void onTouchStart(Slider slider) {
    }

    @Override
    public void onTouchEnd(Slider slider) {
    }
    });
```

例程：Slider

...\Slider\entry\src\main\resources\base\layout\ability_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<DirectionalLayout
  xmlns:ohos="http://schemas.huawei.com/res/ohos"
  ohos:id="$+id:layout"
  ohos:height="match_parent"
  ohos:width="match_parent"
  ohos:left_padding="40vp"
  ohos:right_padding="40vp"
  ohos:alignment="center"
  ohos:orientation="vertical"
  ohos:background_element="#000000">

  <Slider
    ohos:id="$+id:sldRed"
    ohos:height="match_content"
    ohos:width="match_parent"
    ohos:progress_width="20vp"
    ohos:progress_color="#ff0000"
    ohos:min="0"
    ohos:max="255"
  />

  <Slider
    ohos:id="$+id:sldGreen"
    ohos:height="match_content"
    ohos:width="match_parent"
    ohos:top_margin="30vp"
    ohos:progress_width="20vp"
    ohos:progress_color="#00ff00"
    ohos:min="0"
    ohos:max="255"
  />

  <Slider
    ohos:id="$+id:sldBlue"
    ohos:height="match_content"
    ohos:width="match_parent"
    ohos:top_margin="30vp"
    ohos:progress_width="20vp"
    ohos:progress_color="#0000ff"
    ohos:min="0"
    ohos:max="255"
  />

</DirectionalLayout>
```

...\Slider\entry\src\main\java\com\minwei\slider\slice>MainAbilitySlice.java


```

public class MainAbilitySlice extends AbilitySlice {
    private int red = 0, green = 0, blue = 0;

    @Override
    public void onStart(Intent intent) {
        ...
        ((Slider)findViewById(ResourceTable.Id_sldRed))
            .setValueChangeListener(new ValueChangeListener() {
                @Override
                public void onProgressUpdated(Slider slider, int i, boolean b) {
                    red = i;
                    updateBackground();
                }

                @Override
                public void onTouchStart(Slider slider) {
                }

                @Override
                public void onTouchEnd(Slider slider) {
                }
            });

        ((Slider)findViewById(ResourceTable.Id_sldGreen))
            .setValueChangeListener(new ValueChangeListener() {
                @Override
                public void onProgressUpdated(Slider slider, int i, boolean b) {
                    green = i;
                    updateBackground();
                }

                @Override
                public void onTouchStart(Slider slider) {
                }

                @Override
                public void onTouchEnd(Slider slider) {
                }
            });

        ((Slider)findViewById(ResourceTable.Id_sldBlue))
            .setValueChangeListener(new ValueChangeListener() {
                @Override
                public void onProgressUpdated(Slider slider, int i, boolean b) {
                    blue = i;
                    updateBackground();
                }

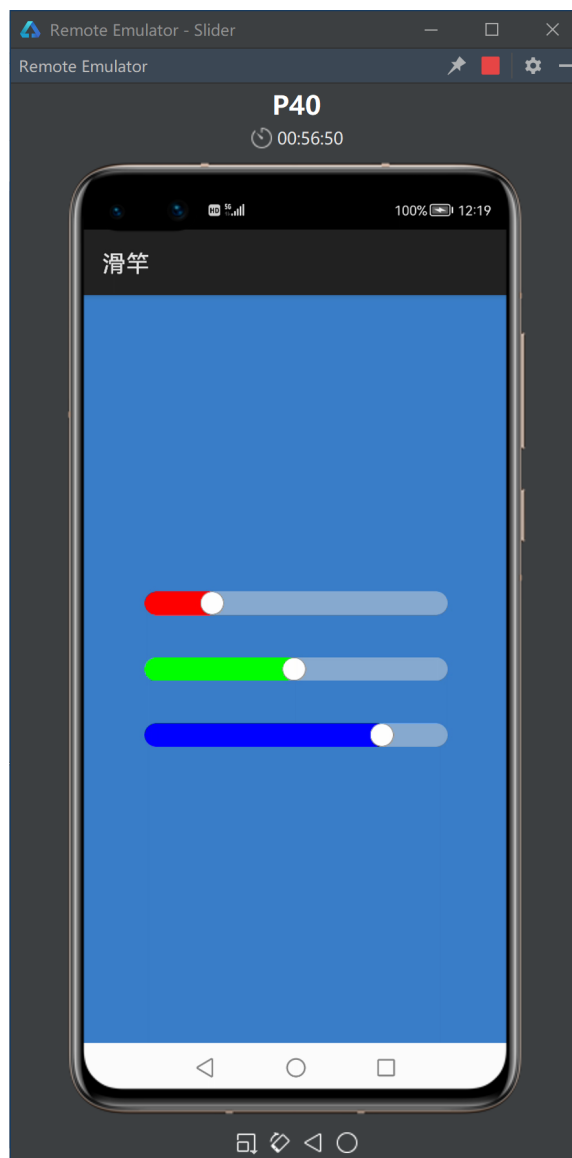
                @Override
                public void onTouchStart(Slider slider) {
                }

                @Override
                public void onTouchEnd(Slider slider) {

```

```
        }  
    });  
}  
...  
private void updateBackground() {  
    ((ShapeElement)findComponentById(ResourceTable.Id_layout)  
        .getBackgroundElement()).setRgbColor(  
        new RgbColor(red, green, blue));  
}  
}
```

运行效果如下图所示：



更多精彩，敬请期待.....