

# Week 5: Date, Time, Tabs

## Date

- Some AndroidView for selecting date/time:
  - DatePicker
  - TimePicker
- Dialog form:
  - DatePickerDialog
  - TimePickerDialog
- Values of month range from 0 (January) → 11 (December)
- These views all have event handlers: `onDateChangeListener` and `onDateSetListener`

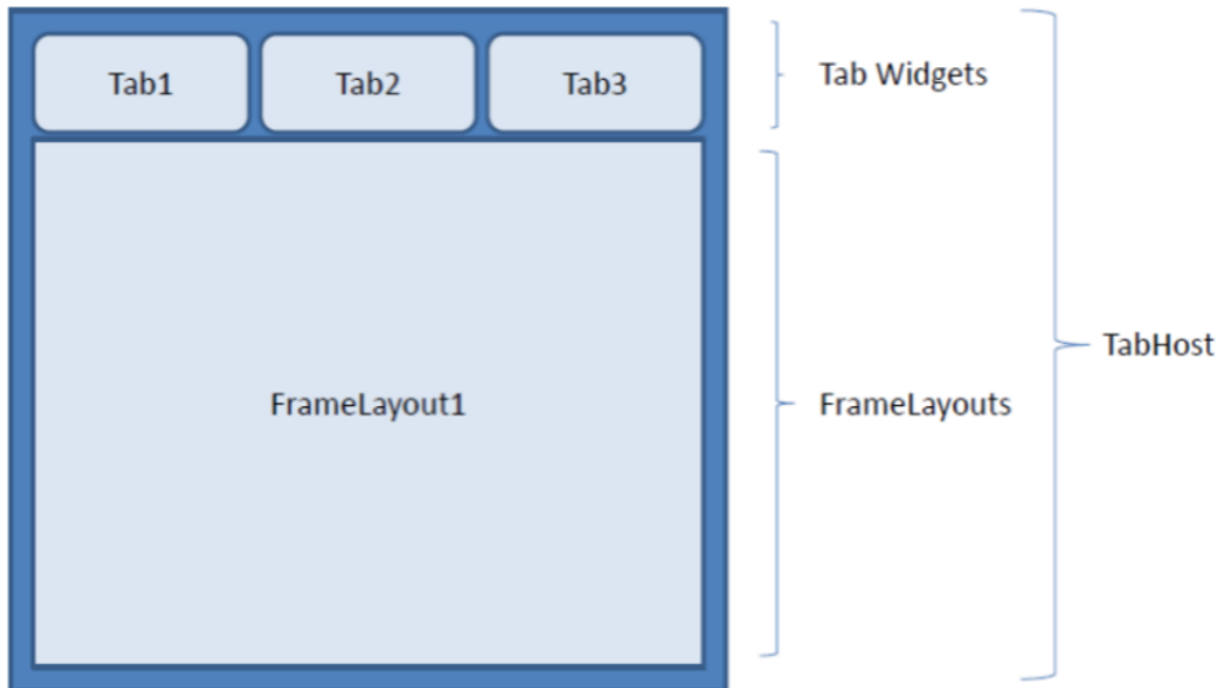
## Time

- `TimePicker` and `TimePickerDialog`
  - Hour: 0 → 23
  - Minute: 0 → 59
  - Display time in 12h or 24h
  - Event handlers: `onTimeChangeListener` and `onTimeSetListener`

## Tab Selector

- Includes: `Tab Host`, `Tab Widgets` and `FrameLayout`
- Tab Host: the container for Tab Widget and FrameLayout

- Tab Widget: row of tab button, can have text label or symbols
- FrameLayout: contains the content of each tab



```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">
    <TabHost android:id="@+id/tabhost"
        android:layout_width="fill_parent"
        android:layout_height="fill_parent">
        <TabWidget android:id="@android:id/tabs"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            />
        <FrameLayout
            android:id="@android:id/tabcontent"
            android:layout_width="fill_parent"
            android:layout_height="fill_parent"
            android:paddingTop="62px">
            <!-- PUT HERE FrameLayout1 -->
            <!-- PUT HERE FrameLayout2 -->
        </FrameLayout>
    </TabHost>
</LinearLayout>

```

- Setup tab selector in XML:

```

@Override
public void onCreate(Bundle icle) {
    super.onCreate(icle);
    setContentView(R.layout.main);
    TabHost tabs=(TabHost)findViewById(R.id.tabhost);
    tabs.setup();
    TabHost.TabSpec spec;
    spec =tabs.newTabSpec("tag1");
    spec.setContent(R.id.tab1);
    spec.setIndicator("1-Clock");
    tabs.addTab(spec);

    spec=tabs.newTabSpec("tag2");
    spec.setContent(R.id.tab2);
    spec.setIndicator("2-Login");
    tabs.addTab(spec);
    tabs.setCurrentTab(0);
}

```

Set Tab1

Set Tab2

