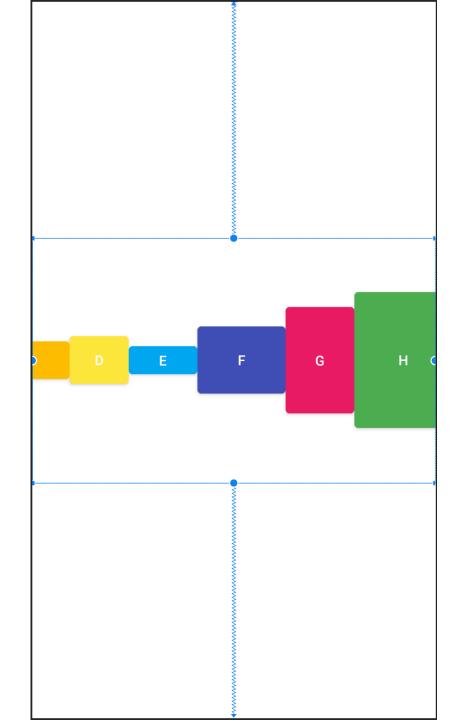
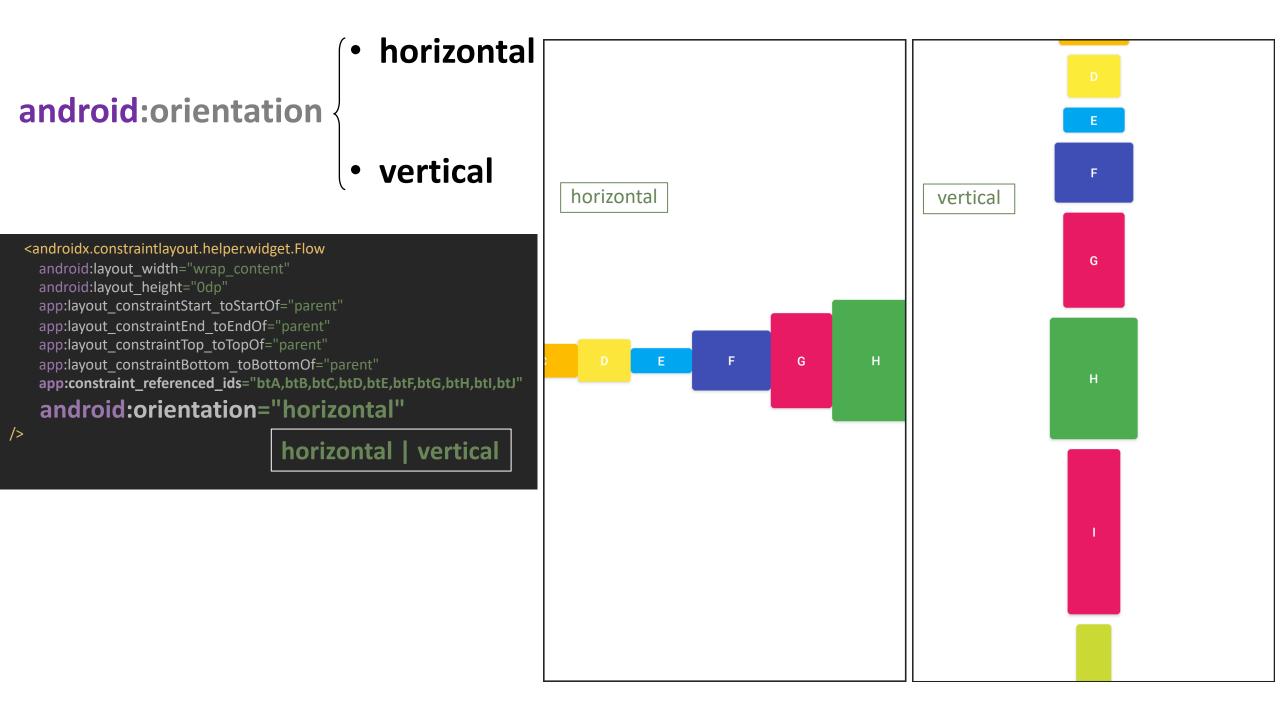
ConstraintLayout

Flows

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:tools="http://schemas.android.com/tools"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 <Button
   android:layout width="35dp"
   android:layout_height="60dp"
   android:backgroundTint="#FF5722"
   android:text="A" />
 <Button
   android:layout_width="40dp"
   android:layout_height="80dp"
   android:backgroundTint="#FF9800"
   android:text="B" />
 <Button
   android:id="@+id/btJ"
   android:layout_width="40dp"
   android:layout_height="250dp"
   android:backgroundTint="#CDDC39"
   android:text="J" />
  <androidx.constraintlayout.helper.widget.Flow
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     app:layout_constraintStart_toStartOf="parent"
     app:layout constraintEnd toEndOf="parent"
     app:layout_constraintTop_toTopOf="parent"
     app:layout_constraintBottom_toBottomOf="parent"
    app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
</androidx.constraintlayout.widget.ConstraintLayout>
```





app:flow_wrapMode <

<androidx.constraintlayout.helper.widget.Flow android:layout width="wrap content"

app:layout constraintStart toStartOf="parent" app:layout constraintEnd toEndOf="parent" app:layout_constraintTop_toTopOf="parent"

app:layout constraintBottom toBottomOf="parent"

app:flow_wrapMode="none"

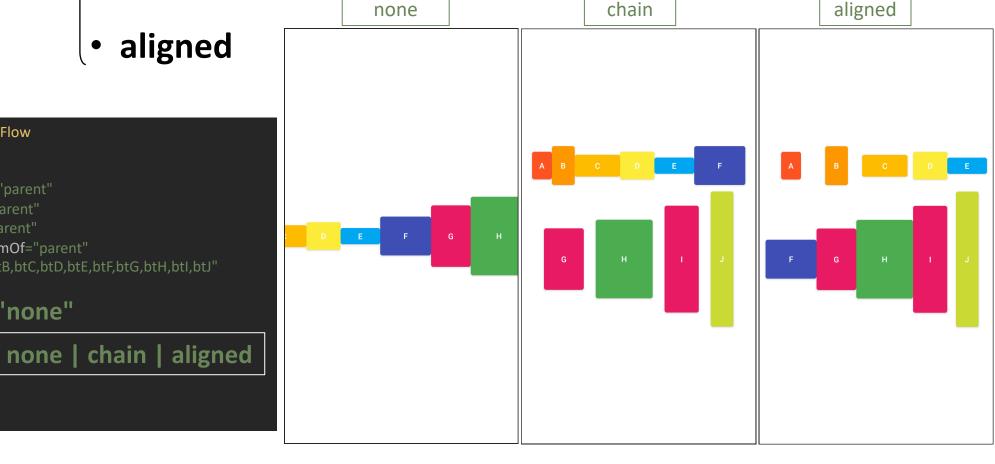
app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"

android:layout_height="0dp"

android:orientation="horizontal"

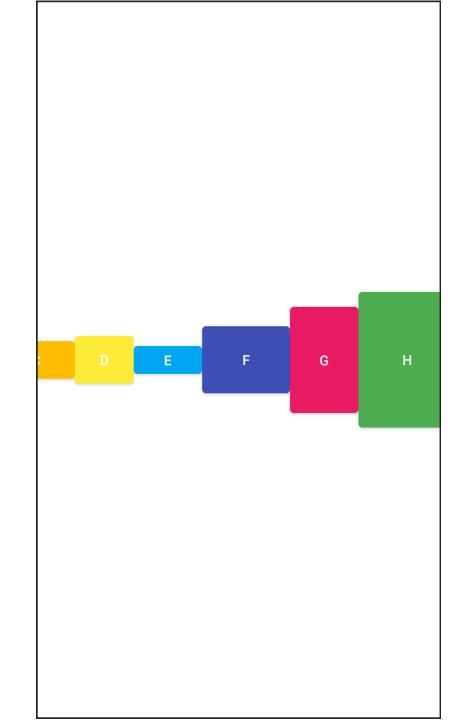
none

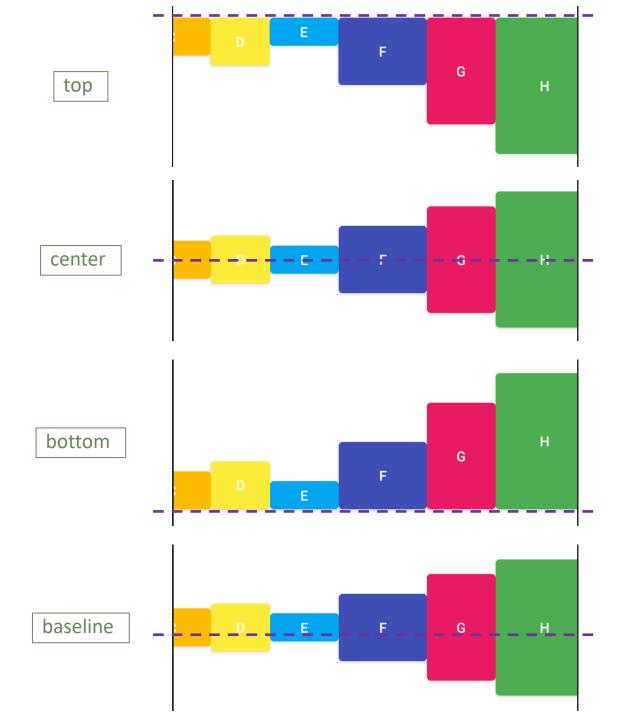
aligned



- none

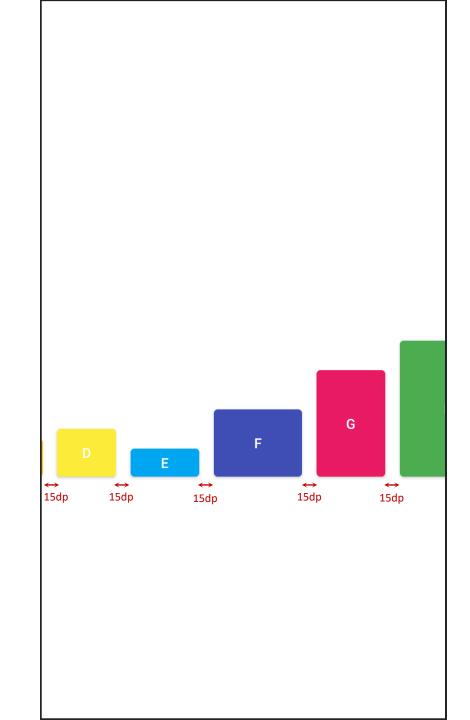
```
<androidx.constraintlayout.helper.widget.Flow
  android:layout width="wrap content"
  android:layout_height="0dp"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintTop toTopOf="parent"
  app:layout constraintBottom toBottomOf="parent"
  app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
  android:orientation="horizontal"
  app:flow_wrapMode="none"
                                    none | chain | aligned
```

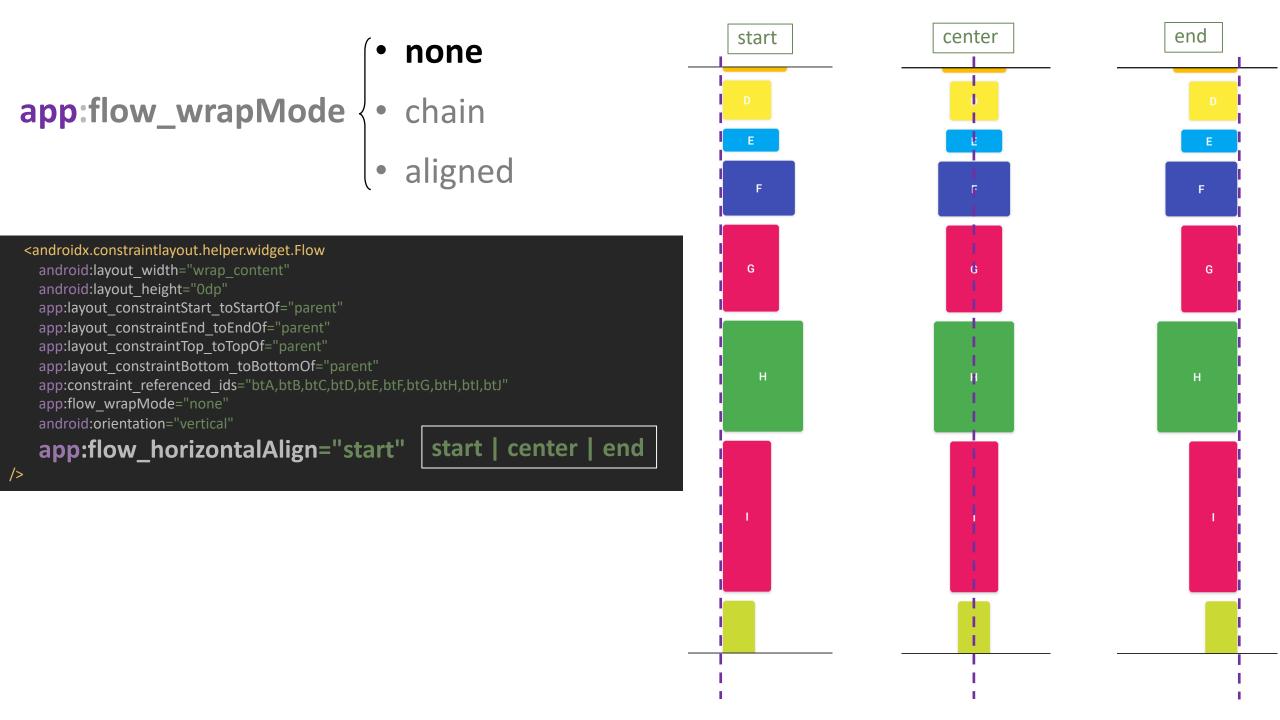




- none

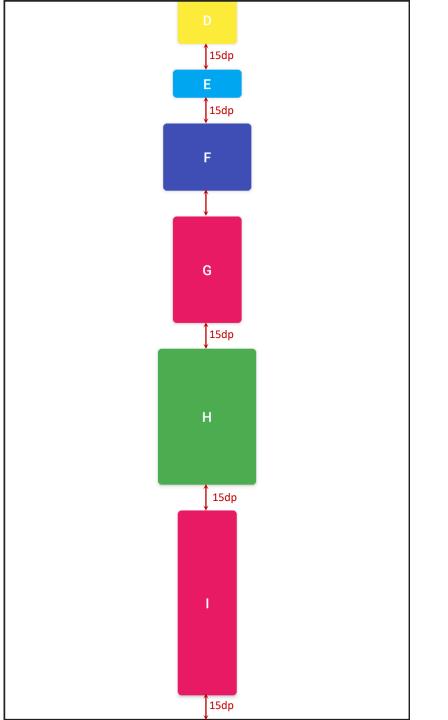
```
<androidx.constraintlayout.helper.widget.Flow
android:layout width="wrap content"
android:layout height="0dp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout constraintTop toTopOf="parent"
app:layout constraintBottom toBottomOf="parent"
app:constraint referenced ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
app:flow_wrapMode="none"
android:orientation="horizontal"
app:flow verticalAlign="bottom"
app:flow_horizontalGap="15dp"
```





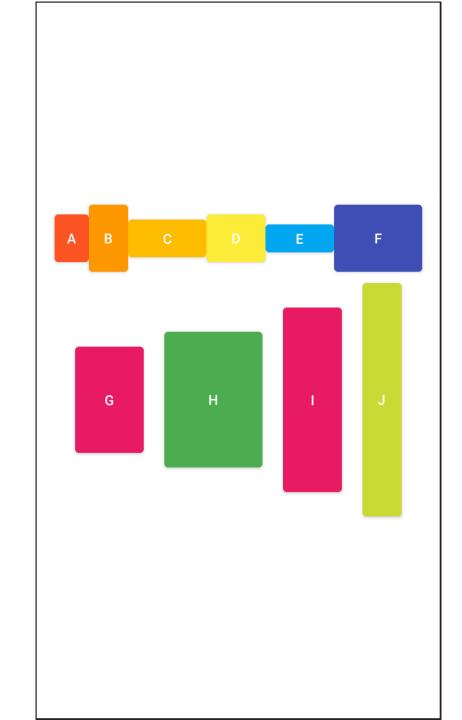
- none

```
<androidx.constraintlayout.helper.widget.Flow</pre>
 android:layout width="wrap content"
 android:layout_height="0dp"
 app:layout_constraintStart_toStartOf="parent"
 app:layout constraintEnd toEndOf="parent"
 app:layout constraintTop toTopOf="parent"
 app:layout constraintBottom toBottomOf="parent"
 app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
 app:flow_wrapMode="none"
 android:orientation="vertical"
 app:flow_verticalGap="15dp"
```



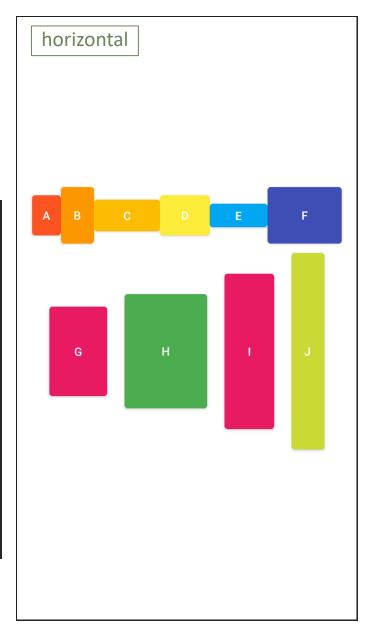
none

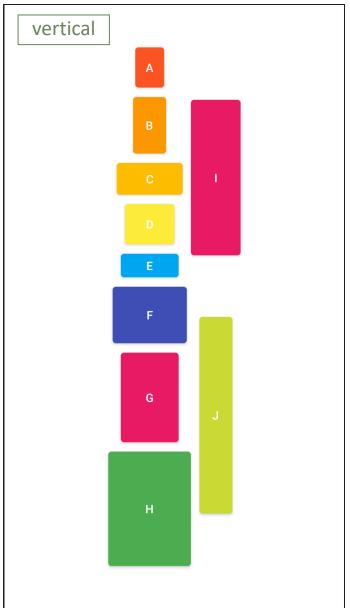
```
<androidx.constraintlayout.helper.widget.Flow
  android:layout width="wrap content"
  android:layout_height="0dp"
  app:layout_constraintStart_toStartOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout_constraintBottom_toBottomOf="parent"
  app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btl,btJ"
 app:flow_wrapMode="chain"
                                    none | chain | aligned
```



- none

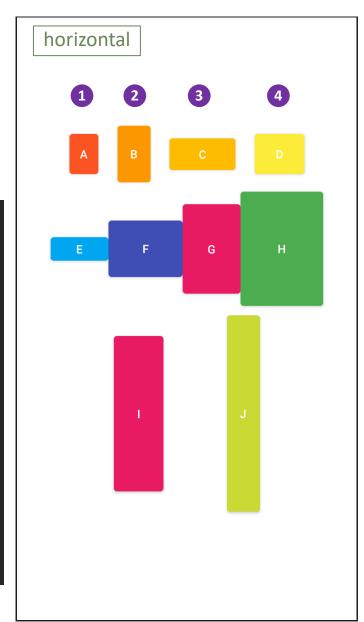
```
<androidx.constraintlayout.helper.widget.Flow
  android:layout width="wrap content"
  android:layout_height="0dp"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintTop toTopOf="parent"
  app:layout constraintBottom toBottomOf="parent"
  app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
  app:flow_wrapMode="chain"
  android:orientation="horizontal"
                                  horizontal | vertical
```

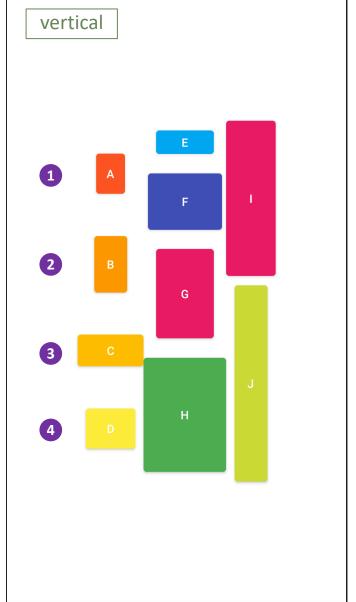




- none

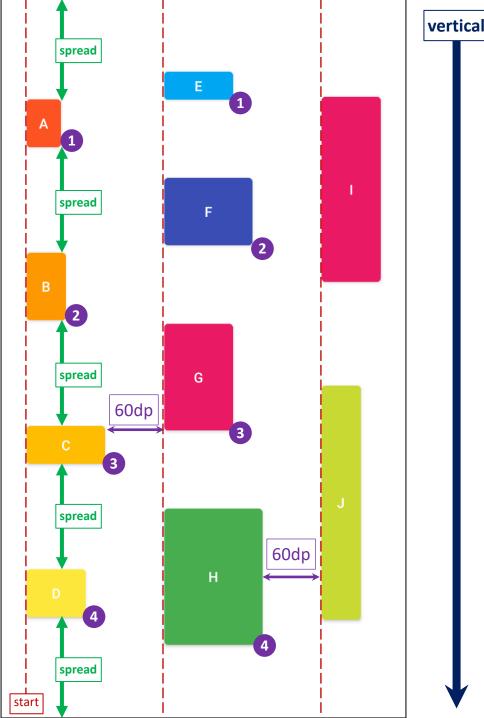
```
<androidx.constraintlayout.helper.widget.Flow
  android:layout width="wrap content"
  android:layout_height="0dp"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintTop toTopOf="parent"
  app:layout constraintBottom toBottomOf="parent"
  app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
  app:flow_wrapMode="chain"
  app:flow_maxElementsWrap="4"
  android:orientation=" horizontal | vertical "
```





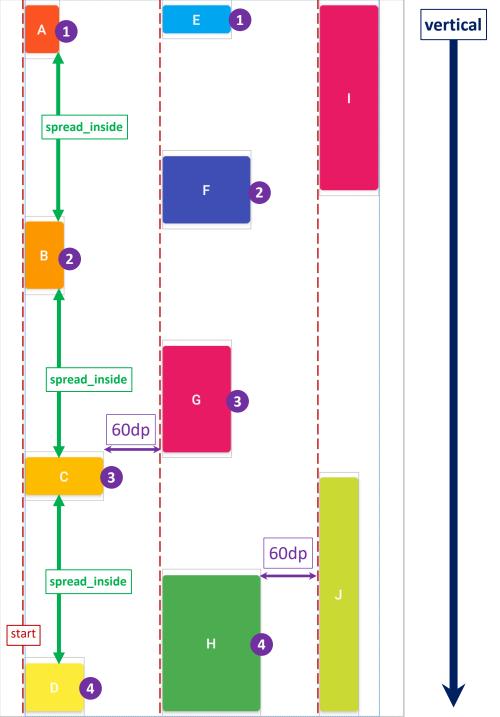
```
app:flow_wrapModechainaligned
```

```
<androidx.constraintlayout.helper.widget.Flow</pre>
     android:layout width="wrap content"
     android:layout height="0dp"
     app:layout constraintStart toStartOf="parent"
     app:layout constraintEnd toEndOf="parent"
     app:layout constraintTop toTopOf="parent"
     app:layout constraintBottom toBottomOf="parent"
     app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
     android:orientation="vertical"
     app:flow_wrapMode="chain"
     app:flow maxElementsWrap="4"
     app:flow_horizontalAlign="start"
     app:flow_horizontalGap="60dp"
     app:flow_verticalStyle="spread"
                                       spread | spread_inside | packed
```



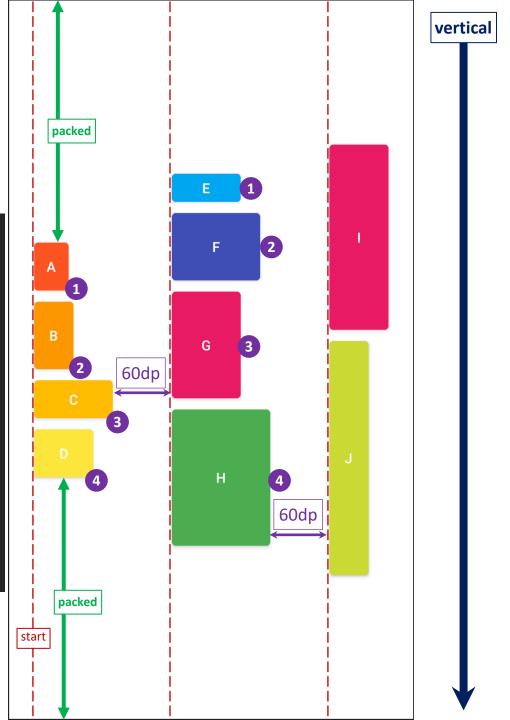
app:flow_wrapModechainaligned

```
<androidx.constraintlayout.helper.widget.Flow</pre>
     android:layout width="wrap content"
     android:layout height="0dp"
     app:layout constraintStart toStartOf="parent"
     app:layout constraintEnd toEndOf="parent"
     app:layout constraintTop toTopOf="parent"
     app:layout constraintBottom toBottomOf="parent"
     app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
     android:orientation="vertical"
     app:flow_wrapMode="chain"
     app:flow_maxElementsWrap="4"
     app:flow_horizontalAlign="start"
     app:flow_horizontalGap="60dp"
     app:flow_verticalStyle="spread_inside"
                                      spread | spread_inside | packed
```



app:flow_wrapModechainaligned

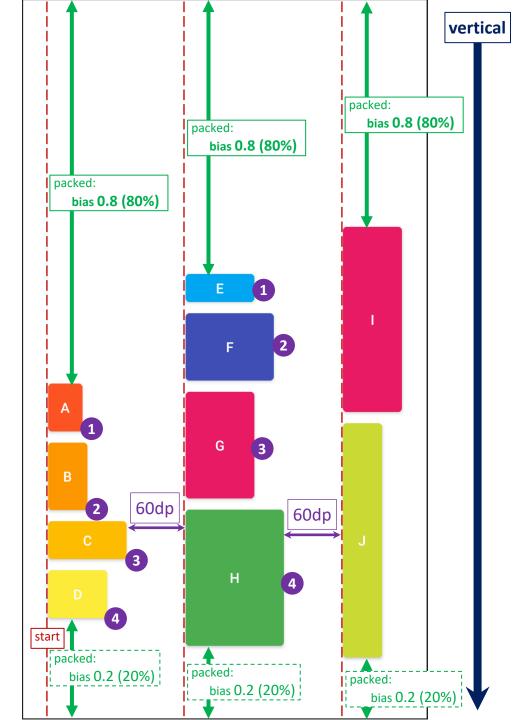
```
<androidx.constraintlayout.helper.widget.Flow</pre>
     android:layout width="wrap content"
     android:layout height="0dp"
     app:layout constraintStart toStartOf="parent"
     app:layout constraintEnd toEndOf="parent"
     app:layout constraintTop toTopOf="parent"
     app:layout constraintBottom toBottomOf="parent"
     app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
     android:orientation="vertical"
     app:flow_wrapMode="chain"
     app:flow_maxElementsWrap="4"
     app:flow_horizontalAlign="start"
     app:flow_horizontalGap="60dp"
     app:flow_verticalStyle="packed"
                                       spread | spread_inside | packed
```



app:flow_wrapMode

- none
- chain
- aligned

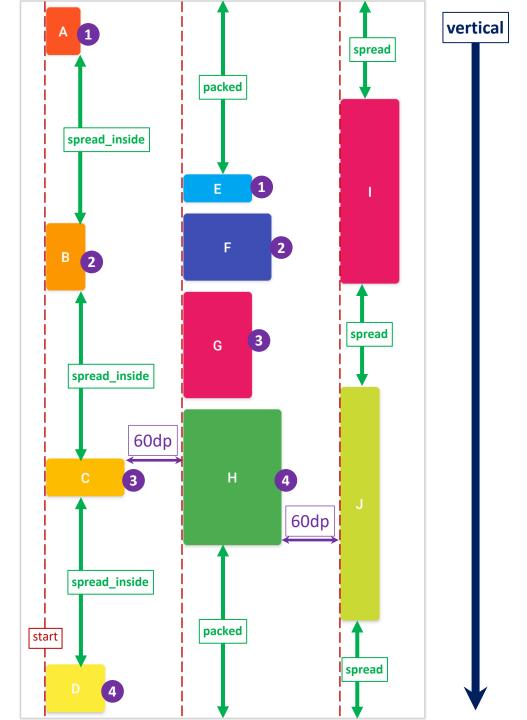
```
<androidx.constraintlayout.helper.widget.Flow</pre>
         android:layout width="wrap content"
         android:layout height="0dp"
         app:layout constraintStart toStartOf="parent"
         app:layout_constraintEnd_toEndOf="parent"
         app:layout constraintTop toTopOf="parent"
         app:layout constraintBottom toBottomOf="parent"
         app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
         android:orientation="vertical"
         app:flow_wrapMode="chain"
         app:flow maxElementsWrap="4"
         app:flow_horizontalAlign="start"
         app:flow_horizontalGap="60dp"
                                                   spread | spread_inside | packed
         app:flow_verticalStyle="packed"
         app:flow_verticalBias="0.8"
/>
```



app:flow_wrapMode

- none
- chair
- aligned

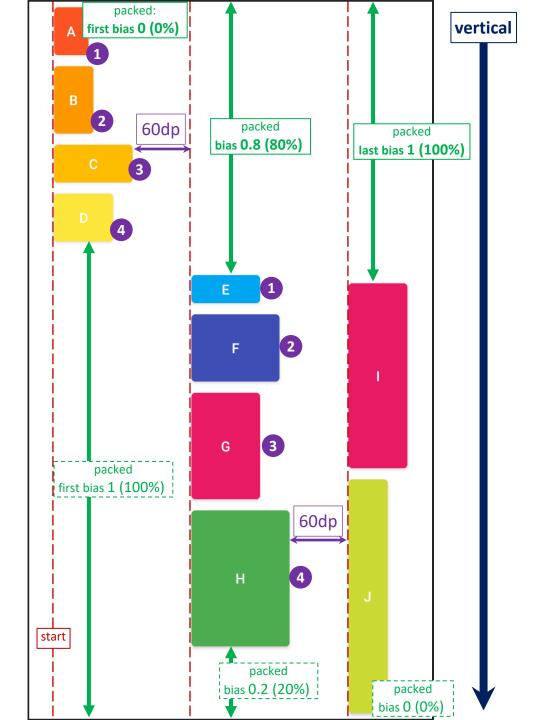
```
<androidx.constraintlayout.helper.widget.Flow</p>
 android:layout width="wrap content"
 android:layout height="0dp"
 app:layout constraintStart toStartOf="parent"
 app:layout constraintEnd toEndOf="parent"
 app:layout constraintTop toTopOf="parent"
 app:layout constraintBottom toBottomOf="parent"
 app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
  android:orientation="vertical"
  app:flow wrapMode="chain"
  app:flow maxElementsWrap="4"
  app:flow horizontalAlign="start"
  app:flow horizontalGap="60dp"
  app:flow_firstVerticalStyle="spread_inside"
 app:flow_verticalStyle="packed"
 app:flow_lastVerticalStyle="spread"
/>
```



app:flow_wrapMode <-

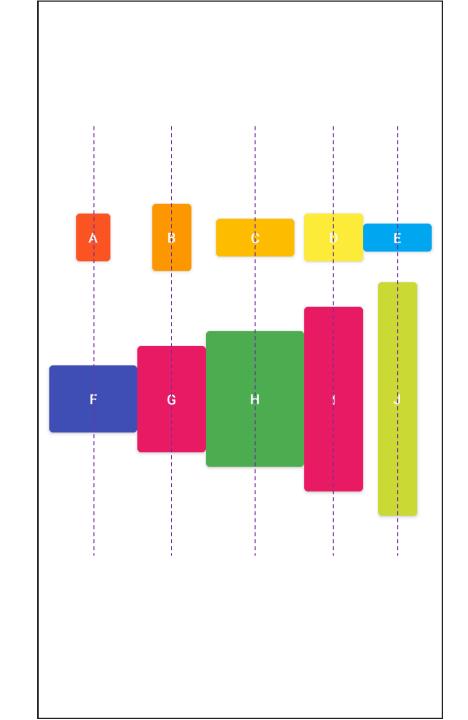
- none
- chain
- aligned

```
<androidx.constraintlayout.helper.widget.Flow
 android:layout width="wrap content"
 android:layout height="0dp"
 app:layout constraintStart toStartOf="parent"
 app:layout constraintEnd toEndOf="parent"
 app:layout constraintTop toTopOf="parent"
 app:layout constraintBottom toBottomOf="parent"
 app:constraint referenced ids="btA,btB,btC,btD,btE,btF,btG,btH,btl,btJ"
 android:orientation="vertical"
 app:flow wrapMode="chain"
 app:flow maxElementsWrap="4"
 app:flow_horizontalAlign="start"
 app:flow_horizontalGap="60dp"
  app:flow_firstVerticalStyle="packed"
  app:flow_firstVerticalBias="0"
  app:flow_verticalStyle="packed"
  app:flow_verticalBias="0.8"
  app:flow_lastVerticalStyle="packed"
  app:flow_lastVerticalBias="1"
```



- none

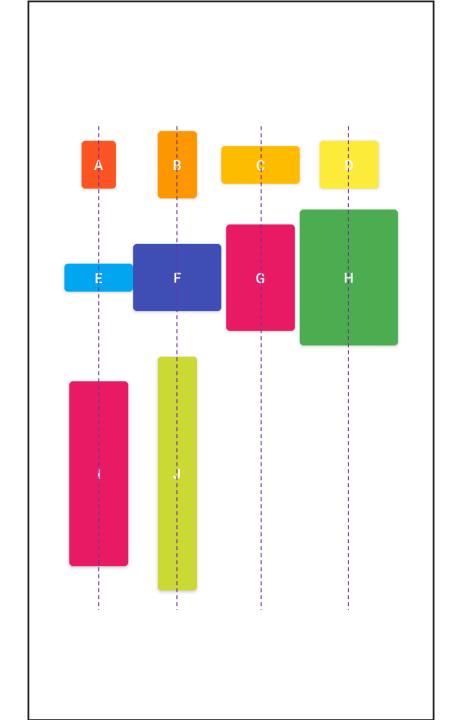
```
<androidx.constraintlayout.helper.widget.Flow
  android:layout width="wrap content"
  android:layout_height="0dp"
  app:layout_constraintStart_toStartOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout constraintBottom toBottomOf="parent"
  app:constraint referenced ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
  android:orientation="horizontal"
  app:flow_wrapMode="aligned"
                                    none | chain | aligned
```



app:flow_wrapMode <- chain</pre>

- none

```
<androidx.constraintlayout.helper.widget.Flow
  android:layout width="wrap content"
  android:layout_height="0dp"
  app:layout_constraintStart_toStartOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout constraintBottom toBottomOf="parent"
  app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
  android:orientation="horizontal"
  app:flow_wrapMode="aligned"
  app:flow_maxElementsWrap="4"
```



- none

```
<androidx.constraintlayout.helper.widget.Flow
  android:layout width="wrap_content"
  android:layout_height="0dp"
  app:layout_constraintStart_toStartOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintTop toTopOf="parent"
  app:layout constraintBottom toBottomOf="parent"
  app:constraint_referenced_ids="btA,btB,btC,btD,btE,btF,btG,btH,btI,btJ"
  android:orientation="horizontal"
 app:flow_wrapMode="aligned"
 app:flow_maxElementsWrap="4"
 android:orientation=" horizontal | vertical
```

