# **AppWidgets**

### AppWidget

- ► Good news: Bardzo proste!
- AppWidget = specjalny BroadcastReciever
- ► a rozmiar etc, deklarujemy w res/xml/my widget.xml

### AppWidgetProvider

## **AppWidgetProvider**, musi zostać zarejestrowany w **AndroidManifest.xml** (w <application/>):

### res/xml/my widget.xml

```
<appwidget-provider xmlns:android="http://schemas.androi
android:minWidth="294dp"
android:minHeight="72dp"
android:updatePeriodMillis="86400000"
android:previewImage="@drawable/preview_widget"
android:initialLayout="@layout/widget">
</appwidget-provider>
```

Deklarowanie tego w XML jest wyg<mark>odniejsze - mamy filtrowanie</mark> folderów (-v11).

### AppWidget - implementacja

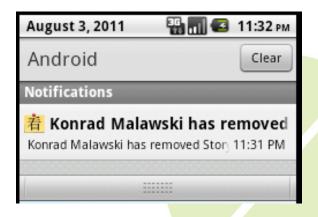
```
public class MyWidgetProvider extends AppWidgetProvider
  @Override
  public void onUpdate(Context context ,
                       AppWidgetManager appWidgetManager
                       int[] appWidgetIds) {
    // Provider obsluguje WIELE (N) widzetow!
    final int N = appWidgetlds.length;
    // aktualizujemy kazgego
    for (int i = 0; i < N; i++) {
      int appWidgetId = appWidgetIds[i];
      populateView (context, appWidgetManager,
                             appWidgetId);
```

### AppWidget - implementacja

```
private void populateView (Context context, AppWidget Mana
 // Przygotowujemy intent do odpalenia "on click"
  Intent intent = new Intent(context, ViewDetailsActivit
  PendingIntent pendingIntent = PendingIntent getActivit
 // rejestrujemy on Click Listener'a troszke inaczej:
  RemoteViews views = new RemoteViews(context.getPackage)
  views.setOnClickPendingIntent(R.id.container, pendingI
 // aktualizujemy widok widzetu (prosimy menagera d to)
 appWidgetManager.updateAppWidget(appWidgetId, views);
    end of class
```

### Notifications

#### Notificaion - przykład



### Norification Manager

```
class MyActivity extends RoboActivity {
    @Inject
    NotificationManager notificationManager;
}
```

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    @Inject
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```

Albo oczywiście Service.

### NorificationManager - 1/3

```
int icon = R.drawable.ic_kanbanery;
long when = System.currentTimeMillis();
Notification notification = new Notification(icon, title
```

### NorificationManager - 2/3

```
int icon = R.drawable.ic_kanbanery;
long when = System.currentTimeMillis();

Notification notification = new Notification(icon, title
Intent notificationIntent = new Intent(this, ColumnsAct
PendingIntent onClickIntent = PendingIntent.getActivity(
```

### NotificationManager - 3/3

```
int icon = R.drawable.ic kanbanery;
long when = System.currentTimeMillis();
Notification notification =
                 new Notification (icon, title, when);
Intent notificationIntent = new Intent(this,
                               Columns Activity . class);
PendingIntent contentIntent = PendingIntent
        . getActivity(this, 0, notificationIntent, 0);
notification.setLatestEventInfo(context, title,
                                 msg, contentIntent);
notification .flags = Notification .FLAG AUTO CANCEL;
notification Manager . notify (ACTION ID, // explain
                            notification);
```