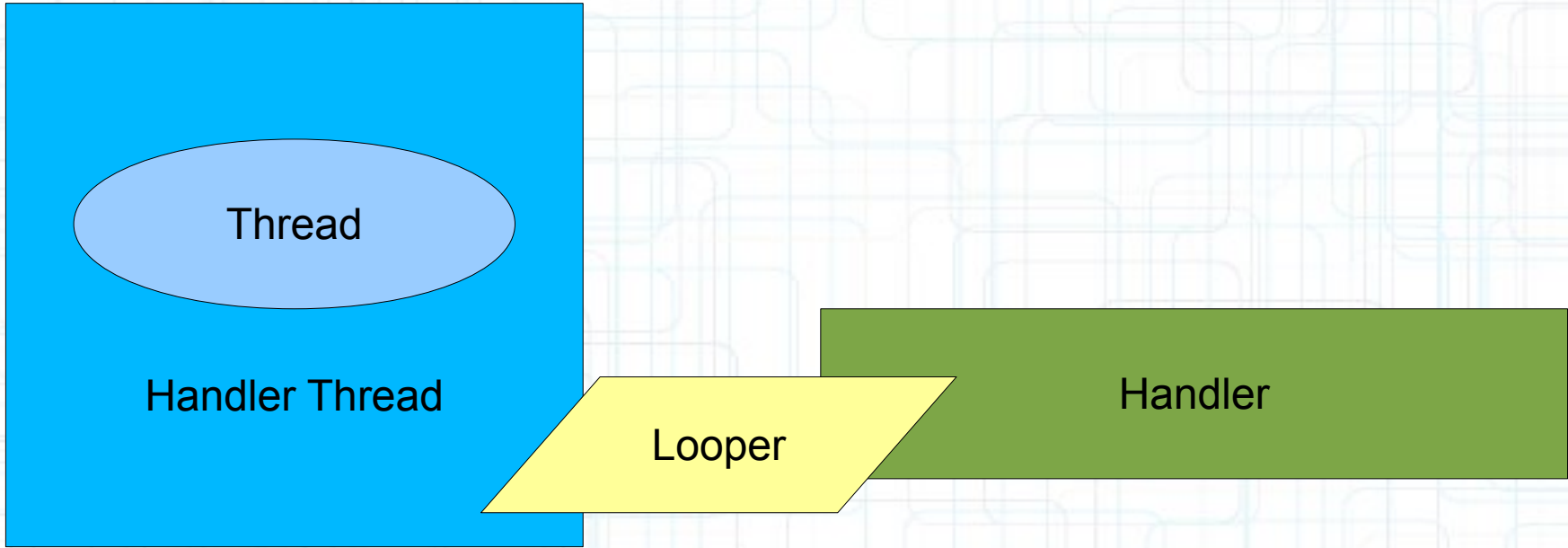


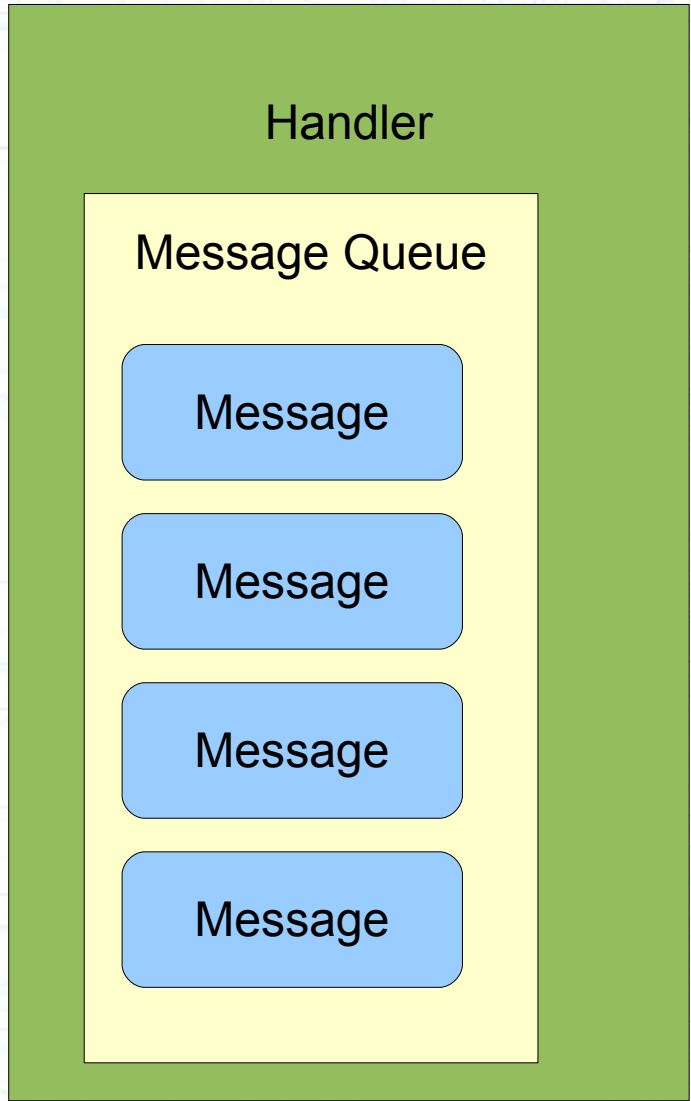
Handler Howto

(by Tobias Fiebiger)



Message

sendMessage



Background Handler Class

```
private class BackgroundHandler extends Handler {  
    public BackgroundHandler(Looper looper) {  
        super(looper);  
    }  
  
    @Override  
    public void handleMessage(Message msg) {  
        // do heavy work here  
    }  
}
```

Foreground Handler Class

```
private class ForegroundHandler extends Handler {  
    public ForegroundHandler() {  
        super(Looper.getMainLooper());  
    }  
  
    @Override  
    public void handleMessage(Message msg) {  
        // handle ui operations here  
    }  
}
```

Instantiate Handler(s)

```
worker = new BackgroundHandler(  
    ThreadTool.getInstance().getBackgroundLooper());  
  
notifier = new ForegroundHanlder();  
  
worker.sendMessage(R.id.msg_load);
```

Create Handler Thread

```
backgroundHandlerThread = new HandlerThread(  
    "Background Thread", Process.THREAD_PRIORITY_LOWEST);  
  
backgroundHandlerThread.setDaemon(true);  
backgroundHandlerThread.start();
```


Notify Foreground Handler

```
Message m = notifier.obtainMessage(what);  
m.obj = o;  
notifier.sendMessage(m);
```


Or do the notify Stuff nice

```
public void notify(int what, Object o) {  
    if (notifier != null) {  
        Message m = notifier.obtainMessage(what);  
        m.obj = o;  
        notifier.sendMessage(m);  
    } else {  
        Log.i(TAG, "Handler is null");  
    }  
}
```

Real world Background Handler

```
@Override
public void handleMessage(Message msg) {
    try {
        Log.i(TAG, "Loading Bitmap from Network on Thread: " + Thread.currentThread().getName());
        // Load Bitmap
        String url = "http://farm6.static.flickr.com/5214/5386641369_9b7f305ea3_o.jpg";
        Bitmap b = NetworkTool.getInstance().loadImage(url);
        // Send Bitmap to Foreground Handler
        notify(R.id.msg_success, b);
    } catch (Exception e) {
        notify(R.id.msg_fail, e.getMessage());
    }
}
```

Real World Foreground Handler

```
@Override
public void handleMessage(Message msg) {
    Log.i(TAG, "Notifier called on Thread: " + Thread.currentThread().getName());
    imageView.setVisibility(View.VISIBLE);
    progressBar.setVisibility(View.GONE);

    switch (msg.what) {
        case R.id.msg_success:
            Log.i(TAG, "Obtained Bitmap");
            image = (Bitmap) msg.obj;
            imageView.setImageBitmap(image);
            break;
        case R.id.msg_fail:
            Log.i(TAG, "Obtained Error: " + (String) msg.obj);
            imageView.setImageResource(R.drawable.icon);
            break;
    }
}
```