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學習

android-asyncTask

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#android-
asyncTask

.....	1
1: android-asyncTask	2
.....	2
Examples	2
AsyncTask	2
2: AsyncTask	6
.....	6
Examples	6
AsyncTask	6
.....	9

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1: android-asynctask

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Examples

AsyncTask

AsyncTaskUI。 /。 AsyncTask。 AsyncTask。 。

AsyncTask。 4。 **onPreExecute** UI。 **doInBackground** UI。 **onProgressUpdate** UI。
onPostExecute。

AsyncTask。

1

```
public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Button button = (FloatingActionButton) findViewById(R.id.btn);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                executeAsyncTaskOperation();
            }
        });
    }

    private void executeAsyncTaskOperation() {
        new CustomAsyncTask(this).execute();
    }

    private static class CustomAsyncTask extends AsyncTask<Void, Void, String> {

        private Context context;
        private ProgressDialog progressDialog;

        public CustomAsyncTask(Context context) {
            this.context = context;
        }

        @Override
```

```

protected void onPreExecute() {
    progressDialog = ProgressDialog.show(context, "Please wait...", "Loading data from
web");
}

@Override
protected String doInBackground(Void... params) {
    String object = null;
    try {
        Log.d(CustomAsyncTask.class.getCanonicalName(), "doInBackground");
        Thread.sleep(500);
        //object = "new object";
    } catch (Exception exc) {
        Log.e(CustomAsyncTask.class.getCanonicalName(), "exception");
        object = null;
    }
    return object;
}

@Override
protected void onPostExecute(String s) {
    if (progressDialog != null && progressDialog.isShowing()) {
        progressDialog.dismiss();
    }
    if (s != null) {
        Toast.makeText(context, "finished successfully!", Toast.LENGTH_LONG).show();
    } else {
        Toast.makeText(context, "finished unsuccessfully!", Toast.LENGTH_LONG).show();
    }
}
}
}
}

```

2

AsyncTaskexecute。。

```

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);

        FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.fab);
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Snackbar.make(view, "Replace with your own action", Snackbar.LENGTH_LONG)
                    .setAction("Action", null).show();

                executeAsyncTaskOperation();
            }
        });
    }
}

```

```

private void executeAsyncTaskOperation() {
    Boolean[] bools = new Boolean[10];
    for (int k = 0; k < 10; k++) {
        if (k % 2 == 0) {
            bools[k] = true;
        } else {
            bools[k] = false;
        }
    }
    new CustomAsyncTask(this).execute(bools);
}

private static class CustomAsyncTask extends AsyncTask<Boolean, Void, Integer> {

    private Context context;
    private ProgressDialog progressDialog;

    public CustomAsyncTask(Context context) {
        this.context = context;
    }

    @Override
    protected void onPreExecute() {
        progressDialog = ProgressDialog.show(context, "Please wait...", "Loading data from
web");
    }

    @Override
    protected Integer doInBackground(Boolean... params) {
        int count = 0;
        try {
            Thread.sleep(1000);
            Log.d(CustomAsyncTask.class.getCanonicalName(), "doInBackground");
            for (Boolean param : params) {
                if (param) {
                    count++;
                }
            }
        } catch (Exception exc) {
            Log.e(CustomAsyncTask.class.getCanonicalName(), "exception");
            count = 0;
        }
        return count;
    }

    @Override
    protected void onPostExecute(Integer s) {
        if (progressDialog != null && progressDialog.isShowing()) {
            progressDialog.dismiss();
        }
        if (s != null && s > 0) {
            Toast.makeText(context, "finished loading: " + s + " tasks",
Toast.LENGTH_LONG).show();
        } else {
            Toast.makeText(context, "finished unsuccessfully!", Toast.LENGTH_LONG).show();
        }
    }
}
}

```

android-asyncTask <https://riptutorial.com/zh-TW/android-asyncTask/topic/8779/android-asyncTask>

2: AsyncTask

AsyncTask

Examples

AsyncTask

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```
public class MainActivity extends AppCompatActivity {

    private static AtomicBoolean inWork;
    private CustomAsyncTask asyncTask;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        inWork = new AtomicBoolean(false);
        FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.fab);
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Snackbar.make(view, "Replace with your own action", Snackbar.LENGTH_LONG)
                    .setAction("Action", null).show();

                executeAsyncTaskOperation();
            }
        });
    }

    private void executeAsyncTaskOperation() {
        Boolean[] bools = new Boolean[10];
        for (int k = 0; k < 10; k++) {
            if (k % 2 == 0) {
                bools[k] = true;
            } else {
                bools[k] = false;
            }
        }
        asyncTask = new CustomAsyncTask(this);
        asyncTask.execute(bools);
    }

    //pressing the home button while the task is running will trigger the onStop being called.
    @Override
    protected void onStop() {
        if (asyncTask.getStatus() == AsyncTask.Status.RUNNING) {
            asyncTask.cancel(true);
        }
        super.onStop();
    }
}
```



```

private static class CustomAsyncTask extends AsyncTask<Boolean, Void, Integer> {

    private Context context;
    private ProgressDialog progressDialog;

    public CustomAsyncTask(Context context) {
        this.context = context;
    }

    @Override
    protected void onCancelled() {
        inWork.set(false);
        if (progressDialog != null && progressDialog.isShowing()) {
            progressDialog.dismiss();
            Log.d(CustomAsyncTask.class.getCanonicalName(), "progressdialog is
dismissed.");
        }
    }

    @Override
    protected void onPreExecute() {
        progressDialog = ProgressDialog.show(context, "Please wait...", "Loading data from
web");
    }

    @Override
    protected Integer doInBackground(Boolean... params) {
        int count = 0;
        inWork.set(true);
        try {
            Thread.sleep(1000);
            Log.d(CustomAsyncTask.class.getCanonicalName(), "doInBackground");
            if (!isCancelled()) {
                for (Boolean param : params) {
                    if (param) {

                        count++;
                    }
                }
            } else {
                Log.d(CustomAsyncTask.class.getCanonicalName(), "doInBackground is
cancelled.");
            }

        } catch (Exception exc) {
            Log.e(CustomAsyncTask.class.getCanonicalName(), "exception");
            count = 0;
        }
        return count;
    }

    @Override
    protected void onPostExecute(Integer s) {
        if (!isCancelled()) {
            inWork.set(false);
            if (progressDialog != null && progressDialog.isShowing()) {
                progressDialog.dismiss();
            }
            if (s != null && s > 0) {
                Toast.makeText(context, "finished loading: " + s + " tasks",
Toast.LENGTH_LONG).show();
            }
        }
    }
}

```

```
        } else {
            Toast.makeText(context, "finished unsuccessfully!",
Toast.LENGTH_LONG).show();

        }
    } else {
        Log.d(CustomAsyncTask.class.getCanonicalName(), "onPostExecute is
cancelled.");
    }
}
}
}
```

AsyncTask <https://riptutorial.com/zh-TW/android-async-task/topic/8783/async-task>

S. No		Contributors
1	android-asyncTask	Andrei T , Community , rossettistone
2	AsyncTask	Andrei T