## Compétences

Je sais utiliser les Intent pour faire communiquer deux activités.

Play: AvatarSelectorActivity:

```
Bundle extras = getIntent().getExtras();

if (extras != null) {
    int value = extras.getInt( key: "difficulty");
    Intent i = new Intent( packageContext this, Play.class);
    i.putExtra( name: "difficulty", value);
    i.putExtra( name: "avatar", avatar);
    startActivity(i);
    Log.e( tag: "Start", msg: "Start OK");
}else{
    Log.e( tag: "ERROR", msg: "Start failed.");
}

if (extras != null) {
    difficulty = extras.getInt( key: "difficulty");
    avatar = extras.getInt( key: "avatar");
}
```

On envoie à l'activité Play depuis l'activité AvatarSelectorActivity, la difficulté ainsi que l'avatar séléctioné, puis dans l'activité AvatarSelectorActivity, on récupère les variables difficulty et avatar.

Je sais développer en utilisant le SDK le plus bas possible.



Nous utilisons android 4.1 avec l'API 16.

Je sais distinguer mes ressources en utilisant les qualifier

```
★ 25 ^
<string name="app_name">GooseGame</string>
<string name="the_adventurer_2">The Adventurer</string>
<string name="nouvelle_partie">Nouvelle partie</string>
<string name="scores">Scores</string>
<string name="textview">TextView</string>
<string name="retour">Retour</string>
<string name="affichage" />
<string name="nop" />
<string name="Retour_Menu">Retour Menu</string>
<string name="radiobutton">RadioButton</string>
<string name="difficulty_1">Difficulté Facile</string>
<string name="difficulty_2">Difficulté Moyen</string>
<string name="difficulty_3">Difficulté Hardcore</string>
<string name="avatar_1">Darius</string>
<string name="avatar_2">Geralt</string>
<string name="avatar_3">Xera</string>
<string name="ImagePerso">ImagePerso</string>
<string name="seconde">s</string>
<string name="lancerDe">Lancer le dé</string>
<string name="updateTime">Time : 0</string>
<string name="next">Suivant</string>
<string name="difficulty_choice">Choisir votre difficulté</string>
<string name="avatar_choice">Choix de l\'avatar</string>
<string name="about_label">About ?</string>
<string name="about_shortcut">shortcut</string>
<string name="exit_label">exit</string>
<string name="exit_shortcut">shortcut-exit</string>
<string name="score0">0</string>
<string name="end_game">End Game</string>
<string name="menu">Menu</string>
<string name="enter_name">Entrer votre nom</string>
<string name="score">Score :</string>
```

Je sais faire des vues xml en utilisant layouts et composants adéquats

```
c?xml version="1.0" encoding="utf-8"?>
candroidx.constraintlayout.widget.Constraintlayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:toots="http://schemas.android.com/tools"
    android:a="elid/constlayout6ame"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_midith="match_parent"
    android:layout_height="match_parent"
    tools:ignore="Hissing@efaultResource">
caudroid:layout_height="match_parent"
    android:layout_height="map_content"
    android:layout_height="map_content"
    android:layout_constraintSottom_toBettomof="parent"
    app:layout_constraintSottom_toBettomof="parent"
    app:layout_constraintSottom_toBettomof="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    android:layout_height="map_content"
    android:layout_height="map_content"
    android:layout_height="map_content"
    android:layout_height="map_content"
    android:layout_height="map_content"
    android:layout_height="map_content"
    android:layout_height="map_content"
    android:layout_height="map_content"
    android:layout_height="map_content"
    android:layout_midth="map_content"
    app:layout_constraintBottom_toBettomof="parent"
    app:layout_constraintBottom_toBettomof="parent"
    app:layout_constraintBottom_toBettomof="parent"
    app:layout_constraintDottom_toBettomof="parent"
    app:layout_constraintDottom_toBettomof="parent"
    app:layout_constraintDottom_toBettomof="parent"
    app:layout_constraintDottom_toBettomof="parent"
    app:layout_constraintTop_toTopof="parent"
    app:layout_constraintTop_toTopof="parent"
    app:layout_constraintTop_toTopof="parent"
    app:layout_constraintSottom_toBettomof="parent"
    app:layout_constraintSottom_toBettomof="parent"
    app:layout_constraintSottom_toBettomof="parent"
    app:layout_constraintSottom_toBettomof="parent"
    app:layout_constraintSottom_toBe
```

Je sais coder proprement mes activités, en m'assurant qu'elles ne font que relayer les évènements

```
* Lancement de la vue principale pour soit se redirigar vers le menu de selection de la difficulté soit vers le menu des scores.

* @param savedinstanceState

* Suppressiint("tonglogTag")

**Boveride

* protected void enCreate(Bundle savedInstanceState) {

* super.onCreate(savedInstanceState);

* setContentView(R.layout.activity.main);

* Butten buttonScore = findViewById(R.id.buttonScores);

* Butten buttonScore.setOnClicklistener(view -> switchActivities( adming "scoreActivity"));

* buttonScore.setOnClickListener(view -> switchActivities( adming "gameActivity"));

* * Switch entre * norivité* du menu des scores ou * getivité* du choix des difficulté*

* * Reparam * activity*

* private void switchActivities(String activity) {

Intent switchActivityIntent;

if(activity.equals("scoreActivity")){

switchActivityIntent = new Intent( packageConnect this, ScoresActivity.class);
}

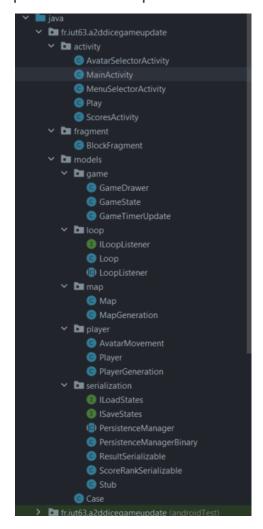
* else {

* switchActivityIntent = new Intent( packageConnect this, MenuSelectorActivity.class);
}

* startActivity(switchActivityIntent);
}

* startActivity(switchActivityIntent);
```

Je sais coder une application en ayant un véritable métier et Je sais parfaitement séparer vue et modèle



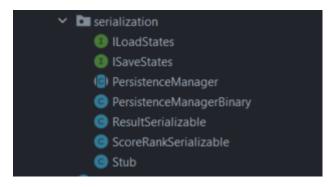
Je maîtrise le cycle de vie de mon application (voir Activités)

Je sais utiliser le findViewByld à bon escient

```
Button buttonScore = findViewById(R.id.buttonScores);
Button buttonPartie = findViewById(R.id.buttonNouvellePartie);
buttonScore.setOnClickListener(view -> switchActivities( activity: "scoreActivity"));
buttonPartie.setOnClickListener(view -> switchActivities( activity: "gameActivity"));
}
```

Je sais gérer les permissions dynamiques de mon application

Je sais gérer la persistance légère et profonde de mon application



Je sais afficher une collection de données

```
PersistenceManager pb = new PersistenceManagerBinary();
ScoreRankSerializable scoreList = pb.load( context this);
String score = "Top Scores : \n \n \n";

int i = 0;

if(scoreList.getRank() != null){
    for(ResultSerializable re : scoreList.getRank()){
        if(i == 10) break;
        score += re.getPseudo() + " " + re.getLevel() + " " + re.getScore() + " " + re.getTime() + "\n";
        i++;
    }
}
TextView Textview = findViewById(R.id.textViewScore);
Textview.setText(score);
```

Je sais coder mon propre adaptateur

```
public abstract class LoopListener {
    private LinkedList<ILoopListener> observatory = new LinkedList<>();

public void subscribe(ILoopListener listener) { observatory.add(listener); }

public void unsubscribe(ILoopListener listener) { observatory.remove(listener); }

/**
    * Notification de tout Observer sur la boucle
    * @param timer
    */
protected void notify(int timer){
    for(ILoopListener observer: observatory){
        observer.update(timer);
    }
}
```

## Je maîtrise l'usage des fragments

```
<androidx.fragment.app.FragmentContainerView
    android:id="@+id/fragmentContainerView"
    android:name="fr.iut63.a2ddicegameupdate.fragment.BlockFragment"
    android:layout_width="235dp"
    android:layout_height="184dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.431"
    tools:layout="@layout/fragment" />
```

Je maîtrise l'utilisation de Git (Projet sur git)