完整版

clockLayer.cpp

```
lloWorld' (16 个项目)
redefinedTargets
                                                                                                             Size size = Director::getInstance()->getWinSize();
                                                                                                                              //wisti
/
                                                                                                                              _hour->setAnchorPoint(Vec2(0.5, 0));
this->addChild(_hour, 1);
                                                                                                                               _minute = Sprite::create("fen.png");
_minute->setPosition(Vec2(size.width / 2, size.height / 2));
                                                                                                                               minute->setScale(0.3);
                                                                                                                              _minute->setAnchorPoint(Vec2(0.5, 0));
this->addChild(_minute, 2);
                                                                                                                              __second = Sprite::create("miao.png");
__second->setPosition(Vec2(size.width / 2, size.height / 2));
__second->setAnchorPoint(Vec2(0.5, 0));
                                                                                                                              _second->setScale(0.3);
this->addChild(_second,3);
                                                                                                                               // Hysophice
backgroud = Sprite::create("background.jpg");
_backgroud->setPosition(Vec2(size.width / 2, size.height / 2));
                                                                                                                              struct timeval nowTimeval;
gettimeofday(&nowTimeval, nullptr);
                                                                                                                              struct tm*tm;
time_t time_sec;
                                                                                                                              time_sec = nowTimeval.tv_sec;
                                                                                                                              //分针、秒针,都是乘以6,一圈360,而60分or60秒就跑完一圈,360/60=6°,每走一步,转6度mRotation = tm->tm_min * 6;
sRotation = tm->tm_sec * 6;
//时针 有所不同 因为 时间刻度可能不一样,12小时 和 24小时制,所以这里要判断
                                                                                                                                          //乘以5变成以60为周期的数 *6 才是真正转动的度数
//还要加上分钟 转动的角度 会带动时针转动的角度
// 分针转360. 时针过一个小时, 会转动30°(360/12), 所以我们要计算分钟走多少度, 时针走6度
//就是分针都72度, 时针走6度(分针走360°时走30度, 分走36°, 时走3度, 时走6度, 分走72°
//所以分每走72°, 时走6°
hRotation = (tm->tm_hour - 12) * 5 * 6+(mRotation/72)*6;
                                                                                                                                          hRotation = tm->tm_hour * 5 * 6 + (mRotation / 72) * 6;
                                                                                                                              hour->setRotation(hRotation):
                                                                                                                              _minute->setRotation(mRotation);
_second->setRotation(sRotation);
                                                                                                                              \tt schedule(CC\_SCHEDULE\_SELECTOR(ClockLayer::timeUpdate)\,,\ 1.\ 0f)\,;\\
                                                                                                            \begin{tabular}{ll} $\neg void $ ClockLayer::menuCallBack(Ref * pSender) $\\ \end{tabular}
                                                                                                                              tsm->goOpenScene();
```

clockLayer.h:

```
#pragma once
∃#include "cocos2d.h"
#include "SceneManager.h"
□class ClockLayer :public Layer
     CREATE FUNC(ClockLayer);
     void menuCallBack(Ref*pSender);
//对一个时钟而言,它需要每秒都去判断,秒针去转动,所以需要使用计时器
     void timeUpdate(float dt);//这个计时器就不是之前的一次性的,这个需要每帧执行
     SceneManager*tsm;
     Sprite * _hour;
//时钟分针
     Sprite * _minute;
//时钟秒针
     Sprite * _second;
//时钟背景
     Sprite * _backgroud;
     int hRotation = 0;
     int mRotation = 0;
     int sRotation = 0;
[};
```

LoadLayer.h

```
elloWorld
          #pragma once
          #include "cocos2d.h"
          #include "SceneManager.h"
          USING_NS_CC;
          class LoadLayer:public Layer
          public:
             CREATE FUNC (LoadLayer);
             virtual bool init();
  11
             //方便管理
  13
  14
              SceneManager*tsm;
             //调度器 过2秒跳转到开始场景
             void onScheduleOnce(float dt);
  19
  21
```

LoadLayer.cpp

OpenLayer.h

OpenLayer.cpp

SceneManager.h

```
#pragma once
     □#ifndef <u>SCENEMANAGER_H</u>
       #define SCENEMANAGER H
       #include "cocos2d.h"
       using namespace cocos2d;
     ⊟class SceneManager
       public:
11
           场景一、加载场景
13
           场景二、开始场景
14
           场景三、时钟场景
           Scene*loadScene;
           Scene*openScene:
           Scene*clockScene;
          void createLoadScene();
           void goOpenScene();
           void goClockScene();
24
       private:
       #endif // SCENEMANAGER H
```

SceneManager.cpp

```
lelloWorld
        ⊟#include "SceneManager.h"
          #include "LoadLayer.h"
          #include "OpenLayer.h"
          #include "ClockLayer.h"
        □void SceneManager::createLoadScene()
              loadScene = Scene::create();
              LoadLayer*layer = LoadLayer::create();
              layer->tsm = this;
//添加图层到该场景下
              loadScene->addChild(layer);
        □void SceneManager::goOpenScene()
              openScene = Scene::create();
              OpenLayer *openLayer = OpenLayer::create();
              openLayer->tsm = this;
              openScene->addChild(openLayer);
              //不是第一个场景,不能使用runWithScene
              Director::getInstance()->replaceScene(openScene);
        □void SceneManager::goClockScene()
              clockScene = Scene::create();
              ClockLayer*clockLayer = ClockLayer::create();
              clockLayer->tsm = this;
              clockScene->addChild(clockLayer);
              Director::getInstance()->replaceScene(clockScene);
```

output:

