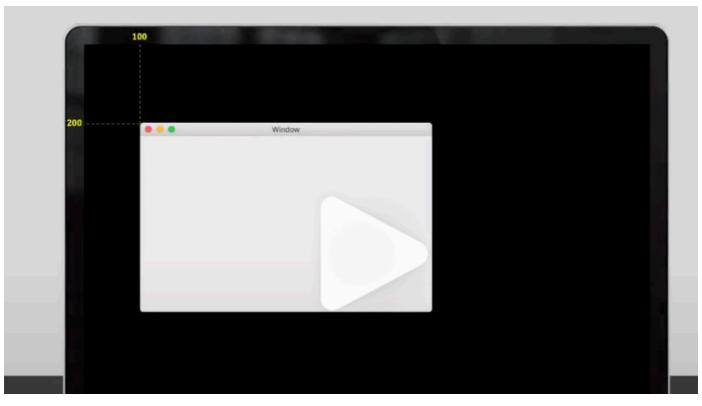
DAY3 SDL to Create a Window

1. Initialize

```
1 SDL_Init(uint constant);
2 // return 0: 正常
```

2. Functions of SDL

```
SDLSDL_CreateWindow(title,
1
2
                    posX(200), posY(100)hard code,
3
                    // position: use SDL_WINDOWPOS_CENTERED based on
  screen's resolution
                    800,
4
5
                    600,
                    SDL WINDOW BORDERLESS
6
7
                   );
  返回true则成功创建
8
```



```
void Game::Initialize() {
      if (SDL_Init(SDL_INIT_EVERYTHING) != 0) {
          std::cerr << "Error initializing SDL." << std::endl;
          return:
      SDL_Window* window = SDL_CreateWindow(
9012345678901
          SDL_WINDOWPOS_CENTERED,
          SDL WINDOWPOS CENTERED,
          800,
          600,
          SDL_WINDOW_BORDERLESS
      );
      if (!window) {
          std::cerr << "Error creating SDL window." << std::endl;
          return:
      SDL_Renderer* renderer = SDL_CreateRenderer(window, -1, 0);
      if (!renderer) {
          std::cerr << "Error creating SDL renderer." << std::endl;
          return:
```

3.Destroy

SDL_Window*\Renderer * local无法正常析构!

放到Game的全局private成员中,所有成员函数都能访问这些属性

4.Main: Run()

isRunning

停不下来: 增加bool isRunning;

默认false, Initialize之后若都成功, isRunning设置为true;

```
while (isRunning) {
   ProcessInput();
   ...
}
```

ProcessInput ()

SDL_Event;

一帧内可能有多个event: 使用while处理

type:

SDL_QUIT: 用户尝试关闭窗口时系统发出事件

5.Render()

```
void Game::Render() {
    SDL_SetRenderDrawColor(renderer, 255, 0, 0, 255);
    SDL_RenderClear(renderer);

// TODO: Render all game objects...

SDL_RenderPresent(renderer);
}
```