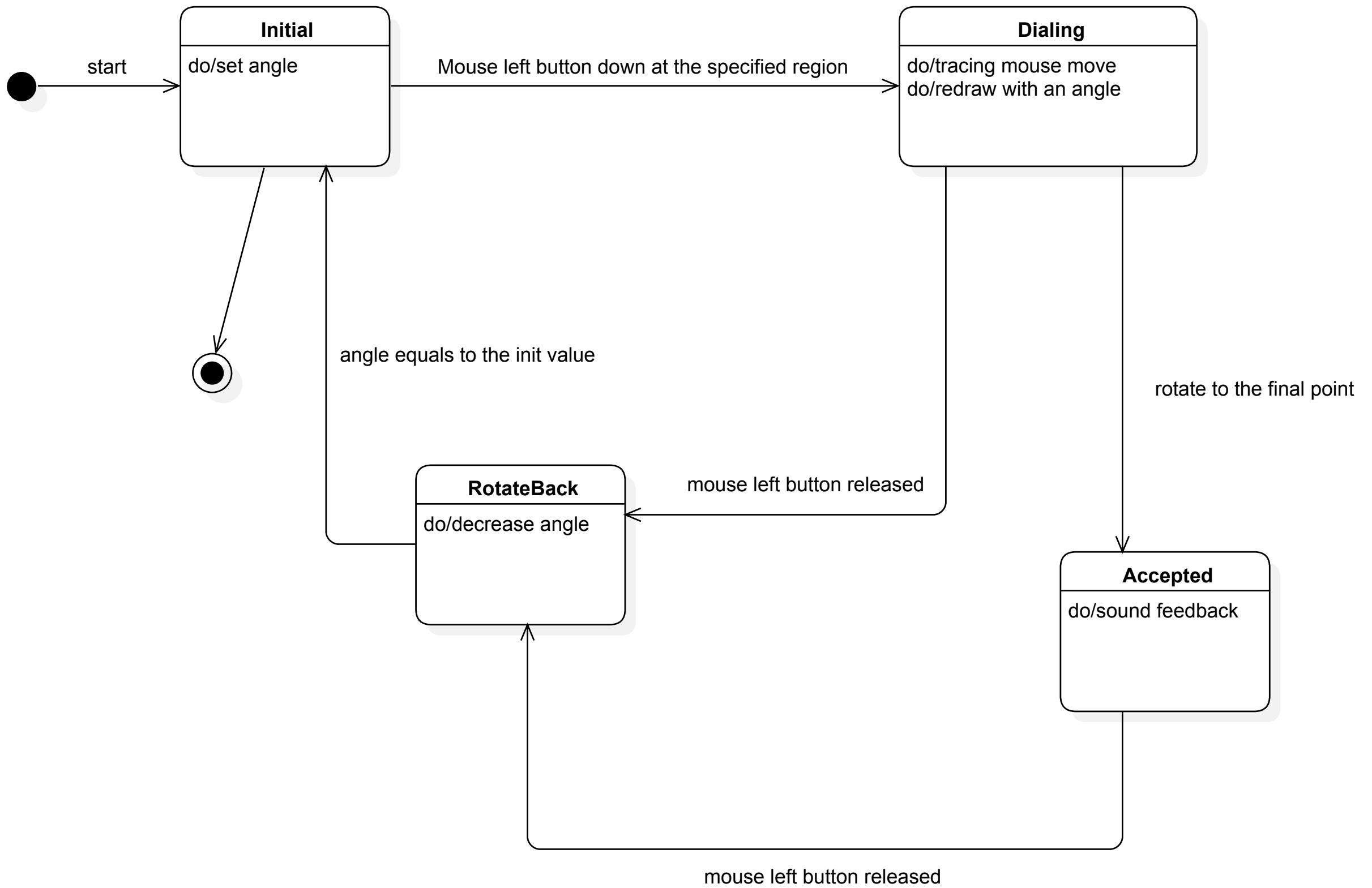


从一份作业谈起



sphone



```
enum State  
{ S_INIT, S_DIALING, S_ACCEPTED, S_ROTATE_BACK };
```

```
State state;
```

```
switch (state)
{
    case S_INIT:
        angle = 0.0;
        if (event->type == SDL_MOUSEBUTTONDOWN)
        {
            int flag = IsInNumer (x, y);
            if (flag == -1)           //如果鼠标不在数字上，则不做处理。
                break;

            call_number = flag;
            initial_angle = GetAngle (x, y);
            cout << "init angle: " << initial_angle << endl;

            state = S_DIALING;
        }

    break;
```

```
case S_DIALING:
    if (event->type == SDL_MOUSEBUTTONDOWN)
    {
        state = S_ROTATE_BACK;
    }

    if (event->type == SDL_MOUSEMOTION)
    {

        double current_angle = GetAngle (x, y);

        // angle = current_angle - initial_angle;
        angle = current_angle;

        // the final position is reached
        if (finalPositionReached (x, y))
        {
            state = S_ACCEPTED;
        }
        SDL_Delay (20);
    }

    break;
```

```
case S_ACCEPTED:
    if (event->type == SDL_MOUSEBUTTONDOWN)
    {
        //PlaySoundFeedback();
        state = S_ROTATE_BACK;
    }

    break;
case S_ROTATE_BACK:

    // rotate with a descending speed
    angle -= delta;
    delta *= 0.9;

    if (angle < 0 || angle > 360)
        state = S_INIT;

    SDL_Delay (20);

    break;
}                                     // end switch
```

```
//redraw the entire scene with  
//    an angle ...
```

```
// It may be something like this  
Show (angle);  
SDL_Delay (20);
```

```
cout << "angle:" << angle << ' ' << "state: " << state << endl;
```

```
}
```


控制帧率

