

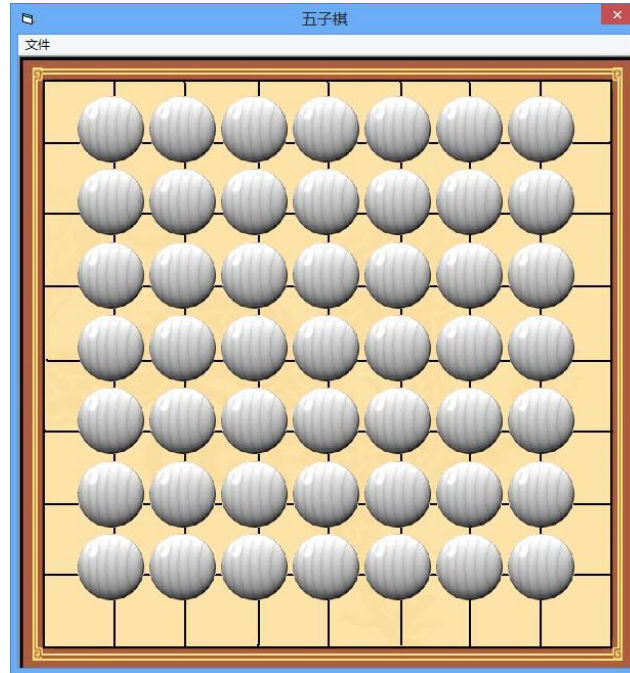
五子棋设计

1. 棋盘

可以考虑用图片框 Picture，修改 picture 属性加载一张棋盘图片

2. 棋子

白棋可以考虑用 7*7 的控件数组，提前放置在棋盘上，如下图。再设置 visible 属性为 false。
黑棋做相同的处理



3. 下棋

利用鼠标事件，通过对光标所在位置的判断，让对应的棋子的 visible 为 true。
黑棋和白棋可以按奇偶数分别出现，也可以通过左右键区别。

4. 棋子位置的记录

建议使用二维数组

```
Dim chessArr (1 to 7, 1 to 7) As Integer
```

5. 判断是否五子连线

```
Private Function isSuccess(chessArr %( ), x%) As Boolean
```

'二维数组 chessArr 记录当前棋盘上黑子和白子的出现情况，黑子记录为 1，白子记录为-1

```
Dim i%, j%, sum%
```

```
isSuccess = False
```

```
For i = 1 To 7 '行扫描,列只能取 1~3，行上才可能有连续 5 个落棋点
```

```
For j = 1 To 3
```

```
sum = 0
```

```
For k = j To j + 4 '行上连续 5 个值计数
```

```
sum = sum + chessArr(i, k)
```

```
Next k
```

```
If sum = 5 Or sum = -5 Then '如果 chessArr 数组一行连续 5 个值同为 1 或-1
```

```
isSuccess = True
```

```
Exit Function
```

```

        End If
    Next j
Next i

For i = 1 To 3 '列扫描,行只能取 1~3, 列上才可能有连续 5 个落棋点
    For j = 1 To 7
        sum = 0
        For k = i To i + 4 '列上连续 5 个值计数
            sum = sum + chessArr(k, j)
        Next k
        If sum = 5 Or sum = -5 Then '如果 chessArr 数组一列连续 5 个值同为 1 或-1
            isSuccess = True
            Exit Function
        End If
    Next j
Next i

For i = 1 To 3 '正斜线扫描
    For j = 1 To 3
        sum = 0
        For k = 0 To 4
            sum = sum + chessArr(i + k, j + k)
        Next k
        If sum = 5 Or sum = -5 Then
            isSuccess = True
            Exit Function
        End If
    Next j
Next i

For i = 1 To 3 '反斜线扫描
    For j = 5 To 7
        sum = 0
        For k = 0 To 4
            sum = sum + chessArr(i + k, j - k)
        Next k
        If sum = 5 Or sum = -5 Then
            isSuccess = True
            Exit Function
        End If
    Next j
Next i
End Function

```