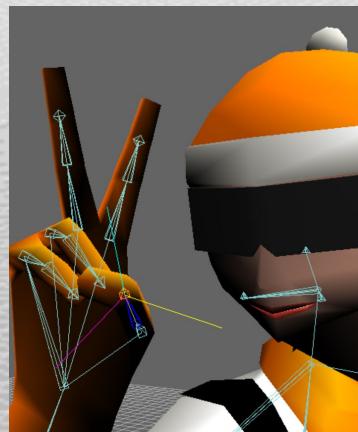
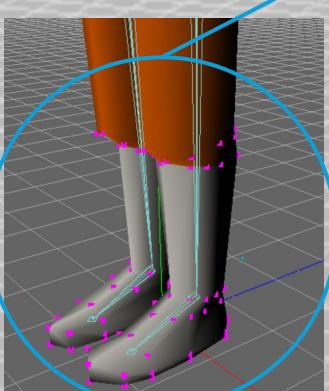
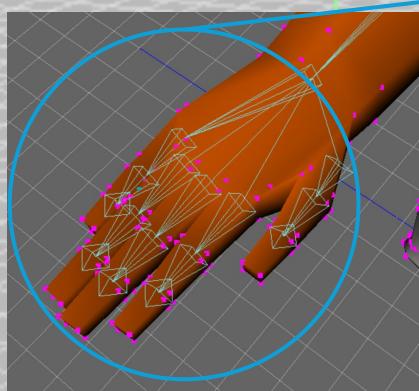


# スキンメッシュエディター

制作 : 山本哲司  
開発環境 : C++, DirectX9, Visal Studio2019  
製作期間 : 11月(1ヶ月)

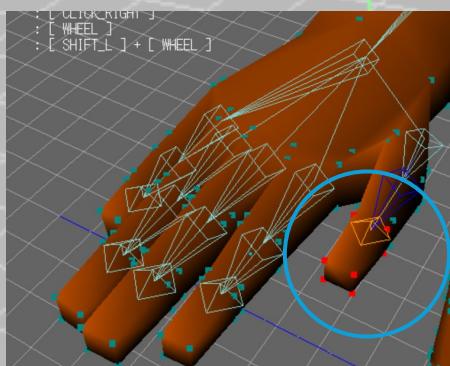


## リギング



Xファイルから読み取ったモデルにボーンを付けるようにしました。

## スキニング



メッシュの頂点情報を元に重さを編集。ボーンのインデックスを設定できます。

## テキスト、バイナリで書き出し

```
27 #####  
28 # コンポーネント  
29 #####  
30 #####  
31 # ボーン  
32 #####  
33 BONE_SET  
34     BONE_IDX = 0  
35     BONE_CHILD_IDX = 49  
36     BONE_PARENT_IDX = -1  
37     BONE_POS = 0 0 0  
38     BONE_OFFSETPOS = 0 0 0  
39 BONE_END  
40  
41 BONE_SET  
42     BONE_IDX = 1  
43     BONE_CHILD_IDX = 2  
44     BONE_PARENT_IDX = 0  
45     BONE_POS = 0 404.721 0  
46     BONE_OFFSETPOS = 0 404.721 0  
47 BONE_END  
48  
49 BONE_SET  
50     BONE_IDX = 2  
51     BONE_CHILD_IDX = 6  
52     BONE_PARENT_IDX = -1  
53     BONE_POS = 0 1012.08 -10.5469  
54     BONE_OFFSETPOS = 0 1416.8 -10.5469  
55 BONE_END
```

|     | Component | Bone ID | Parent ID | Position (X) | Position (Y) | Position (Z) | Offset Position (X) | Offset Position (Y) | Offset Position (Z) |
|-----|-----------|---------|-----------|--------------|--------------|--------------|---------------------|---------------------|---------------------|
| 1   | WHEEL     | 0       | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 2   | WHEEL     | 1       | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 3   | WHEEL     | 2       | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 4   | WHEEL     | 3       | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 5   | WHEEL     | 4       | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 6   | WHEEL     | 5       | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 7   | WHEEL     | 6       | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 8   | WHEEL     | 7       | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 9   | WHEEL     | 8       | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 10  | WHEEL     | 9       | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 11  | WHEEL     | 10      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 12  | WHEEL     | 11      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 13  | WHEEL     | 12      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 14  | WHEEL     | 13      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 15  | WHEEL     | 14      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 16  | WHEEL     | 15      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 17  | WHEEL     | 16      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 18  | WHEEL     | 17      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 19  | WHEEL     | 18      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 20  | WHEEL     | 19      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 21  | WHEEL     | 20      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 22  | WHEEL     | 21      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 23  | WHEEL     | 22      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 24  | WHEEL     | 23      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 25  | WHEEL     | 24      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 26  | WHEEL     | 25      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 27  | WHEEL     | 26      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 28  | WHEEL     | 27      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 29  | WHEEL     | 28      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 30  | WHEEL     | 29      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 31  | WHEEL     | 30      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 32  | WHEEL     | 31      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 33  | WHEEL     | 32      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 34  | WHEEL     | 33      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 35  | WHEEL     | 34      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 36  | WHEEL     | 35      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 37  | WHEEL     | 36      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 38  | WHEEL     | 37      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 39  | WHEEL     | 38      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 40  | WHEEL     | 39      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 41  | WHEEL     | 40      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 42  | WHEEL     | 41      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 43  | WHEEL     | 42      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 44  | WHEEL     | 43      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 45  | WHEEL     | 44      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 46  | WHEEL     | 45      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 47  | WHEEL     | 46      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 48  | WHEEL     | 47      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 49  | WHEEL     | 48      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 50  | WHEEL     | 49      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 51  | WHEEL     | 50      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 52  | WHEEL     | 51      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 53  | WHEEL     | 52      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 54  | WHEEL     | 53      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 55  | WHEEL     | 54      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 56  | WHEEL     | 55      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 57  | WHEEL     | 56      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 58  | WHEEL     | 57      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 59  | WHEEL     | 58      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 60  | WHEEL     | 59      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 61  | WHEEL     | 60      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 62  | WHEEL     | 61      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 63  | WHEEL     | 62      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 64  | WHEEL     | 63      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 65  | WHEEL     | 64      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 66  | WHEEL     | 65      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 67  | WHEEL     | 66      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 68  | WHEEL     | 67      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 69  | WHEEL     | 68      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 70  | WHEEL     | 69      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 71  | WHEEL     | 70      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 72  | WHEEL     | 71      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 73  | WHEEL     | 72      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 74  | WHEEL     | 73      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 75  | WHEEL     | 74      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 76  | WHEEL     | 75      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 77  | WHEEL     | 76      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 78  | WHEEL     | 77      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 79  | WHEEL     | 78      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 80  | WHEEL     | 79      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 81  | WHEEL     | 80      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 82  | WHEEL     | 81      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 83  | WHEEL     | 82      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 84  | WHEEL     | 83      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 85  | WHEEL     | 84      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 86  | WHEEL     | 85      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 87  | WHEEL     | 86      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 88  | WHEEL     | 87      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 89  | WHEEL     | 88      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 90  | WHEEL     | 89      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 91  | WHEEL     | 90      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 92  | WHEEL     | 91      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 93  | WHEEL     | 92      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 94  | WHEEL     | 93      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 95  | WHEEL     | 94      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 96  | WHEEL     | 95      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 97  | WHEEL     | 96      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 98  | WHEEL     | 97      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 99  | WHEEL     | 98      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 100 | WHEEL     | 99      | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 101 | WHEEL     | 100     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 102 | WHEEL     | 101     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 103 | WHEEL     | 102     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 104 | WHEEL     | 103     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 105 | WHEEL     | 104     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 106 | WHEEL     | 105     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 107 | WHEEL     | 106     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 108 | WHEEL     | 107     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 109 | WHEEL     | 108     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 110 | WHEEL     | 109     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 111 | WHEEL     | 110     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 112 | WHEEL     | 111     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 113 | WHEEL     | 112     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 114 | WHEEL     | 113     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 115 | WHEEL     | 114     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 116 | WHEEL     | 115     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 117 | WHEEL     | 116     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 118 | WHEEL     | 117     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 119 | WHEEL     | 118     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 120 | WHEEL     | 119     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 121 | WHEEL     | 120     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 122 | WHEEL     | 121     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 123 | WHEEL     | 122     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 124 | WHEEL     | 123     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 125 | WHEEL     | 124     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 126 | WHEEL     | 125     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 127 | WHEEL     | 126     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 128 | WHEEL     | 127     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 129 | WHEEL     | 128     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 130 | WHEEL     | 129     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 131 | WHEEL     | 130     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 132 | WHEEL     | 131     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 133 | WHEEL     | 132     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 134 | WHEEL     | 133     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 135 | WHEEL     | 134     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 136 | WHEEL     | 135     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 137 | WHEEL     | 136     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 138 | WHEEL     | 137     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 139 | WHEEL     | 138     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 140 | WHEEL     | 139     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 141 | WHEEL     | 140     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 142 | WHEEL     | 141     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 143 | WHEEL     | 142     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 144 | WHEEL     | 143     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 145 | WHEEL     | 144     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 146 | WHEEL     | 145     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 147 | WHEEL     | 146     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 148 | WHEEL     | 147     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 149 | WHEEL     | 148     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 150 | WHEEL     | 149     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 151 | WHEEL     | 150     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 152 | WHEEL     | 151     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 153 | WHEEL     | 152     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 154 | WHEEL     | 153     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 155 | WHEEL     | 154     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 156 | WHEEL     | 155     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 157 | WHEEL     | 156     | -1        | 0            | 0            | 0            | 0                   | 0                   | 0                   |
| 158 | WHEEL     | 157     | -1        | 0</td        |              |              |                     |                     |                     |