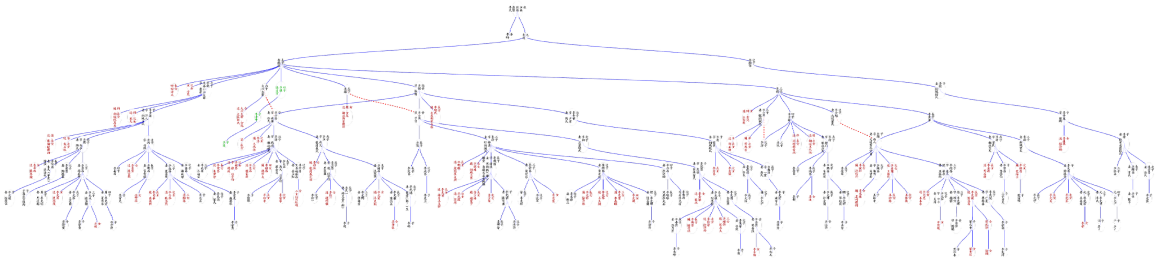
```
{序號, 姓名, 字, 號, 排行, 生日, 卒日, 配偶,
   子女序號, 子女, 過繼於, 出宗, 居地, 職業, 備註} = Range[15];
info = (序號 姓名 字 號 排行 生日 卒日 配偶 子女序號 子女 過繼於 出宗 居地 職業 備註
        □    □   □  □  □    □    □    □      □       □      □      □    □    □    □ );
(*to be filled*)
compare[a_, b_] := If[ToString[a == b] == "True", True, False]
(*compare anything with strange variables*)
namelist = {};
Do[info[[n, 子女序號]] = {};
  If[MemberQ[namelist, info[[n, 姓名]]] == False, AppendTo[namelist, info[[n, 姓名]]]];
  info[[n, 序號]] = Position[namelist, info[[n, 姓名]]][[1, 1]];
  (*add a new person if he is not in namelist*)
  Do[If[MemberQ[namelist, info[[n, 子女, c, 1, 1]]] == False,
    AppendTo[namelist, info[[n, 子女, c, 1, 1]]]];
   (*add a new person's children if he is not in namelist*)
   If[MemberQ[Transpose[info][[姓名]], info[[n, 子女, c, 1, 1]]] == False,
    AppendTo[info, {Position[namelist, info[[n, 子女, c, 1, 1]]][[1, 1]],
      info[[n, 子女, c, 1, 1]], □, □, □, □, □, □, □, □, □, □, □, □}]];
   AppendTo[info[[n, 子女序號]], Position[namelist, info[[n, 子女, c, 1, 1]]][[1, 1]]];,
   {c, Length[info[[n, 子女]]]}];
  , {n, 2, Length[info]}];
info = SortBy[info, First];
Do[
  info[[Position[namelist, info[[n, 子女, c, 1, 1]]][[1, 1]] + 1, 排行]] =
   info[[n, 子女, c, 2, 1]], {n, 2, Length[info]}, {c, Length[info[[n, 子女]]]}
 ];
(*MatrixForm@info*)

tree = {};
Do[If[! compare[info[[n, 子女序號]], □],
   AppendTo[tree, If[! compare[info[[info[[n, 子女序號, c]] + 1, 過繼於]], □] &&
       ! compare[info[[n, 姓名]], info[[info[[n, 子女序號, c]] + 1, 過繼於]]],
     {info[[n, 序號]] → info[[n, 子女序號, c]], "過繼"},
     info[[n, 序號]] → info[[n, 子女序號, c]]]]],
  {n, 2, Length[info]}, {c, Length[info[[n, 子女序號]]]}];
singlEfolD[x_List, idx_, label_] := Which[
   compare[label, "過繼"],
   {Dashed, Red, Thick, Arrowheads[{{.0, .0}}],
    Arrow@BSplineCurve[{First[x], First[x] - {0, 0.3}, (*Total[
        x[[{1,-1}]] If[First[x][[1]]>Last[x][[1]],{{0,1},{1,0}},{{1,0},{0,1}}]],*)
       Last[x] + {0, 0.3}, Last[x]}, SplineWeights → {5, 10, 10, 5}]},
   True, {Blue, Arrowheads[{{.0, .0}}], Arrow@BSplineCurve[
      {First[x], First[x] - {0, 0.3}, (*Total[
        x[[{1,-1}]] If[First[x][[1]]>Last[x][[1]],{{0,1},{1,0}},{{1,0},{0,1}}]],*)
       Last[x] + {0, 0.3}, Last[x]}, SplineWeights → {5, 10, 10, 5}]}];

VerticalChinese[str_, alignment_: "Top", style_] := (
  lines = StringSplit[str, "\n"];
  lineLength = Table[StringLength@lines[[l]], {l, Length[lines]}];
  chars = Table[StringSplit[lines[[l]], ""], {l, Length[lines]}];
```

```
  width = Max[lineLength];
  chArray = Which[alignment == "Bottom", PadLeft[chars, {Length[lines], width}, ""],
    alignment == "Top", PadRight[chars, {Length[lines], width}, ""]];
  dim = Dimensions[chArray];
  special = {"(", ")", ":", "\"", "\'", " (", ") ", ".", "<",
    ">", ": ", "“", "”", "‘", "’", "『", "』 ", "「", "」 ", "《", "》 "};
  mat = Table[el = ToString[chArray[[j, i]]];
    If[MemberQ[special, el], Rotate[el, -π/2], el], {i, dim[[2]]}, {j, dim[[1]], 1, -1}];
  (*matstr=StringJoin[mat]*)
  Style[Grid[mat, Spacings → {0.05, -0.05}], style]]

g = LayeredGraphPlot[tree, DirectedEdges → False,
   VertexRenderingFunction → ({Opacity[0.8, White], EdgeForm[None],
       p = info[[#2 + 1]]; disp = DeleteCases[{
          If[compare[StringTake[ToString[p[[排行]]], -1],
            StringTake[ToString[p[[姓名]]], -1]], "", ToString[p[[排行]]] <> "\n"],
          ToString[p[[姓名]]],
          "\n字 " <> ToString[p[[字]]], "\n號 " <> ToString[p[[號]]],

          "\n" <> If[compare[StringTake[ToString[p[[排行]]], -1], "女"], "適 ", "妻 "] <>
           ToString[p[[配偶]]]}, _?(StringMatchQ[#, "*□"] &)];
       labellength = Min[Max[StringLength@disp], 5];
       (*Rectangle[#1-{labellength/16,0.2},#1+{labellength/16,0.2}]*)
       Disk[#1, labellength/16], Opacity[1, Black],
       Inset[VerticalChinese[StringJoin@disp, "Top",
         {Which[compare[StringTake[ToString[p[[排行]]], -1], "女"],
           Darker[Red], compare[p[[出宗]], 逐出宗], Darker[Green], True, Black],
          FontFamily → "Kaiti TC", 11, Bold}], #1]} &),
   EdgeRenderingFunction → (singlEfolD[#1, #2, #3] &),
   (*PlotRange→
    {{-10,0.8},{-32,40}},*)
   PlotRangePadding → {0.1, 0},
   ImageSize → 3800,
   AspectRatio → 1 / 4.5];
Row[{g, "     ", VerticalChinese["洪都李氏渡江新譜 樹狀圖", "Top",
   {Red, FontFamily → "Heiti TC", FontSize → 30}]}]
```



This image is blurred for privacy