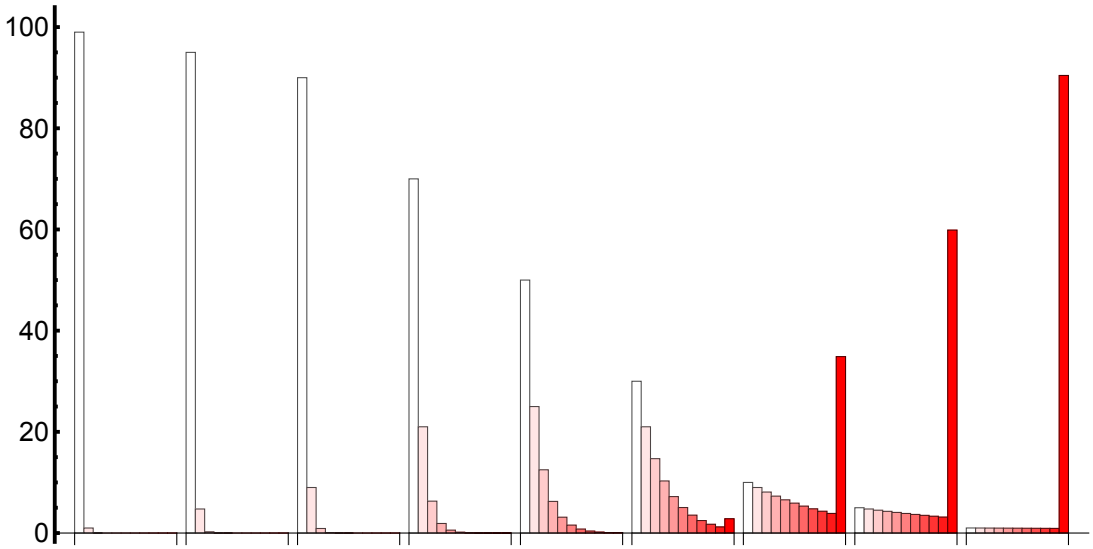
In[1]:=
```
parasiteload = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10};
plotchat[P_] := {transmisstion = Prepend[ConstantArray[P, 10], 1 - P];
  X = {transmisstion[[1]] 100};
  exact = Last[Table[AppendTo[X, Last[X] transmisstion[[i]]], {i, 2, 10}]];
  AppendTo[exact, 100 - Total[exact]],
  BarChart[exact, PlotRange → {Automatic, {0, 100}},
   ChartStyle → Table[RGBColor[1, 1 - i, 1 - i], {i, 0, 1, 0.1}]]}
```

In[3]:=
```
plots = Table[plotchat[P], {P, {0.01, 0.05, 0.1, 0.3, 0.5, 0.7, 0.9, 0.95, 0.99}}];
```

In[4]:=
```
BarChart[plots[[All, 1]],
 ChartStyle → {EdgeForm[{Opacity[0.7, Black], Thickness[.001]}],
   Table[RGBColor[1, 1 - i, 1 - i], {i, 0, 1, 0.1}]}, AspectRatio → 0.5,
 ImageSize → Large, AxesStyle → {Thickness[0.001], Directive[Thick, Black, 14]},
 BarSpacing → {0, 1}]
```

Out[4]=



In[5]:=
```
Pvalues = {0.01, 0.05, 0.1, 0.3, 0.5, 0.7, 0.9, 0.95, 0.99};
means = Table[plots[[All, 1]][[i, #]] / 100 parasiteload[[#]] & /@ Range[1, 11],
   {i, 1, Length[plots[[All, 1]]]}];
totalmean = Total[#] & /@ means;
squaredmeans = Table[plots[[All, 1]][[i, #]] / 100 parasiteload[[#]]^2 & /@ Range[1, 11],
   {i, 1, Length[plots[[All, 1]]]}];
variances = Table[Total[squaredmeans[[i]]] - totalmean[[i]]^2,
   {i, 1, Length[plots[[All, 1]]]}];
xymeans = Partition[Riffle[Pvalues, totalmean], 2];
xyvariances = Partition[Riffle[Pvalues, variances], 2];
```

In[12]:=
```
ListLogPlot[{xymeans, xyvariances, xymeans, xyvariances},
 Joined → {True, True, False, False}, Frame → True,

 PlotMarkers → {        ,        },

 FrameStyle → Directive[Black, Thickness[0.003]]]
```

Out[12]=