

```

In[1181]= (*A=BarChart[{2,4,3},ChartElementFunction->"GlassRectangle",
      ChartStyle->{Yellow,Yellow,Yellow}];
      B=BarChart[{1,3,2},ChartElementFunction->"GlassRectangle",
      ChartStyle->{LightBlue,LightBlue,LightBlue}];
      Show[
      A,
      B]*)

In[1182]= (*ChartLayout->"Stacked"*)

In[1183]= Quiet@Remove["Global`*"];
      SetDirectory[NotebookDirectory[]];
      $HistoryLength = 3;

In[1335]= Prvky = {{5.24, 1.04, 0.2, 0}, {4.45, 0.49, 0.1, 0.05}, {5.22, 0.27, 0.11, 0}};

In[1187]= Soucet1 = Plus @@ Prvky[[1]];
      Soucet2 = Plus @@ Prvky[[2]];
      Soucet3 = Plus @@ Prvky[[3]];
      Soucty = {Soucet1, Soucet2, Soucet3}

Out[1190]= {6.48, 5.09, 5.6}

In[1191]= Plus @@ (# & /@ Prvky)
Out[1191]= {14.91, 1.8, 0.41, 0.05}

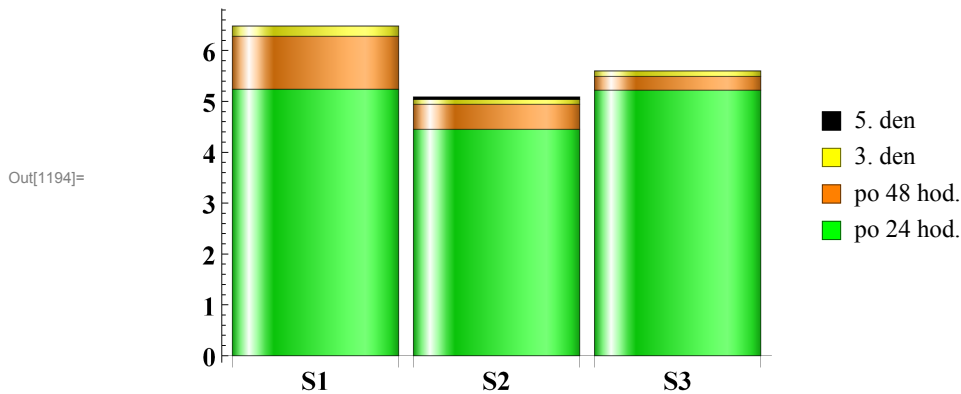
In[1192]= Plus @@@ (# & /@ Prvky)
Out[1192]= {6.48, 5.09, 5.6}

In[1193]= Soucty[[2]]
Out[1193]= 5.09

```

```
In[1194]= Vysus = BarChart[Prvky, ChartLayout → "Stacked",
  ChartElementFunction → "GlassRectangle",
  ChartStyle → {Green, Orange, Yellow, Black},
  ChartLegends → {"po 24 hod.", "po 48 hod.", "3. den", "5. den"},
  ChartLabels → {Placed[{Style["S1", FontSize → 14, Bold],
    Style["S2", FontSize → 14, Bold], Style["S3", FontSize → 14, Bold]}, Below],
  Placed[{Null, Null, Null, Null}, Above]}, AxesStyle → Directive[Black,
  14, FontFamily → "Times New Roman", Bold, FontFamily → "Times New Roman"],
  AxesLabel → {Null, Style[" Úbytek vlhkosti [%] ", 14]},
  LabelStyle → Directive[Black, FontFamily → "Times New Roman"]]
```

Úbytek vlhkosti [%]



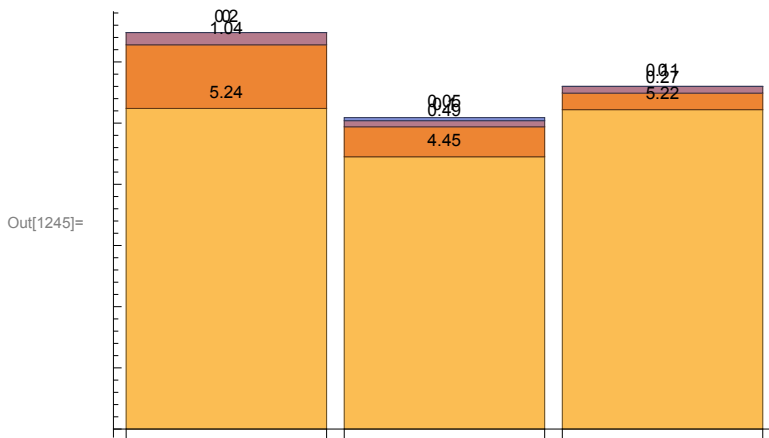
```
In[1195]= Export["Vysus.png", Vysus, ImageResolution → 300]
```

Out[1195]= Vysus.png

```
In[1196]= (*BarChart[Prvky, ChartLayout → "Stacked",
  ChartElementFunction → "GlassRectangle", ChartStyle → {Green, Orange, Yellow, Black},
  ChartLegends → {"po 24 hod.", "po 48 hod.", "3. den", "5. den"},
  ChartLabels → {Placed[{Style["S1", FontSize → 16, Bold],
    Style["S2", FontSize → 16, Bold], Style["S3", FontSize → 16, Bold]}, Below],
  Placed[{Null, Null, Null, Style[Soucet1, Bold, FontSize → 16]}, Above]},
  AxesStyle → Directive[Black, 15, FontFamily → "Times New Roman",
  Bold, FontFamily → "Times New Roman"],
  AxesLabel → {Null, Style[" Úbytek vlhkosti [%] ", 16]},
  LabelStyle → Directive[Black, FontFamily → "Times New Roman"],
  FrameStyle → Directive[Black, FontFamily → "Times New Roman", 16, Bold],
  Frame → True, FrameLabel → {Null, Style[" Úbytek vlhkosti [%] ", 16, Bold]},
  PlotRange → {Automatic, {0, 7.2}}]*)
```

```
In[1197]= (*PrvkyXX={{ "5. den", 0.00, 0.05, 0.00}, {"3. den", 0.20, 0.10, 0.11},
  {"po 48 hod.", 1.04, 0.49, 0.27}, {"po 24 hod.", 5.24, 4.45, 5.22}};
  Grid[PrvkyXX, Frame → All]*)
```

```
In[1245]= BarChart[Prvky, LabelingFunction -> (Placed[#, Above] &), ChartLayout -> "Stacked"]
```



```
In[1198]= (*Text@Grid[Prepend[PrvkyXX, {Null, "S1", "S2", "S3"}], Background->
  {None, {Lighter[Yellow, .9], {White, Lighter[Blend[{Blue, Green}], .7]}}},
  Dividers->{{Darker[Gray, .5], {Lighter[Gray, .5], Darker[Gray, .6]},
  {Darker[Gray, .6], Darker[Gray, .6], {False}, Darker[Gray, .6]}},
  Alignment->{{Center, Center, {Center}}, ItemSize->{{10, 3, 5, 5}},
  Frame->Darker[Gray, .6], ItemStyle->14, Spacings->{Automatic, .8}]*)
```

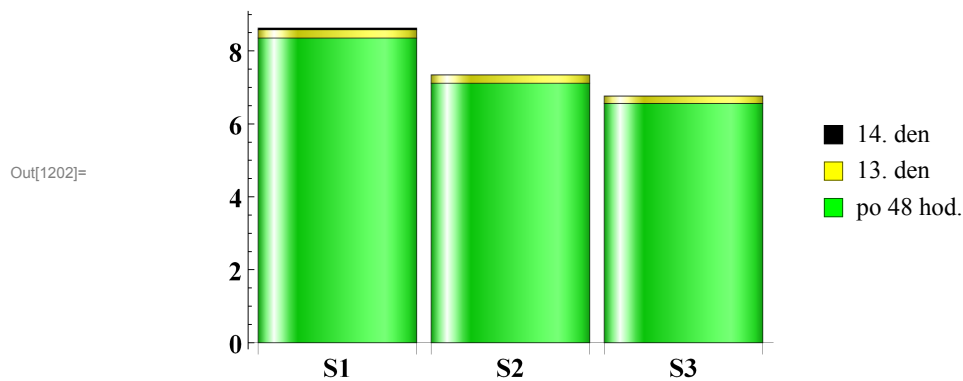
```
In[1199]= (* ChartStyle->"DarkRainbow" ChartStyle->
  "Rainbow" ChartStyle->"Pastel" {Red, Orange, Yellow, LightBlue} ChartLabels->
  {Placed[{Null, Null, Null, Soucet1}, Above]} *)
```

```
In[1200]= Prvky2 = {{8.35, 0.23, 0.05}, {7.11, 0.23, 0.00}, {6.56, 0.2, 0.00}};
  Soucty2 = Plus@@@ (# & /@ Prvky2)
```

```
Out[1201]= {8.63, 7.34, 6.76}
```

```
In[1202]= nasak = BarChart[Prvky2, ChartLayout → "Stacked",
  ChartElementFunction → "GlassRectangle", ChartStyle → {Green, Yellow, Black},
  ChartLegends → {"po 48 hod.", "13. den", "14. den"},
  ChartLabels → {Placed[{Style["S1", FontSize → 14, Bold],
    Style["S2", FontSize → 14, Bold], Style["S3", FontSize → 14, Bold]}, Below],
  Placed[{Null, Null, Null}, Above]}, AxesStyle → Directive[Black, 14,
  FontFamily → "Times New Roman", Bold, FontFamily → "Times New Roman"],
  AxesLabel → {Null, Style["Nárůst obsahu vody [%] ", 14]},
  LabelStyle → Directive[Black, FontFamily → "Times New Roman"]]
```

Nárůst obsahu vody [%]



```
In[1203]= Export["Nasak.png", nasak, ImageResolution → 300]
```

Out[1203]= Nasak.png

```
In[1204]= Skupina = {Soucty, Soucty2}
```

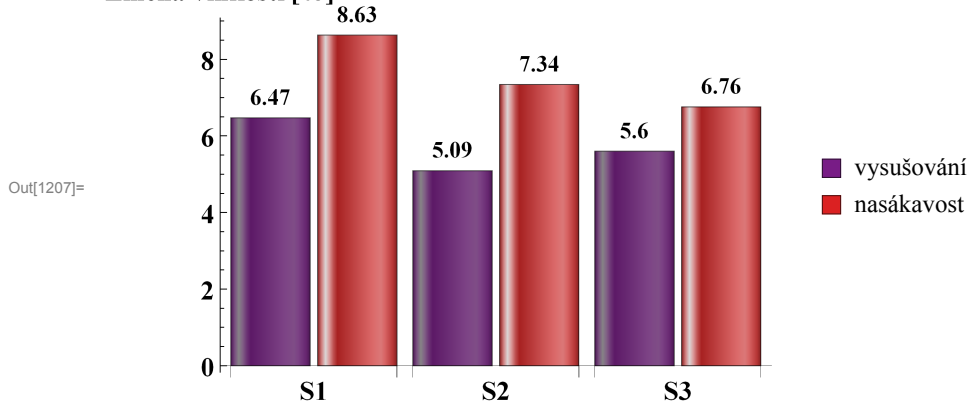
Out[1204]= {{6.48, 5.09, 5.6}, {8.63, 7.34, 6.76}}

```
In[1205]= Dvojice = Table[{Skupina[[1, i]], Skupina[[2, j]]}, {i, 1, 3}, {j, 1, 3}];
```

```
In[1206]= Dvojice2 = {{6.47, 8.63}, {5.09, 7.34}, {5.6, 6.76}};
```

```
In[1207]= porov = BarChart[Dvojice2, ChartElementFunction -> "GlassRectangle",
  ChartStyle -> "Rainbow", ChartLegends -> {"vysušování", "nasákavost"},
  LabelingFunction -> (Placed[Style[#, FontSize -> 12, Bold], Above] &),
  ChartLabels -> {Placed[{Style["S1", FontSize -> 14, Bold],
    Style["S2", FontSize -> 14, Bold], Style["S3", FontSize -> 14, Bold]}, Below],
  Placed[{Null, Null, Null}, Above]}, AxesStyle -> Directive[Black, 14,
  FontFamily -> "Times New Roman", Bold, FontFamily -> "Times New Roman"],
  AxesLabel -> {Null, Style[" Změna vlhkosti [%] ", 14]},
  LabelStyle -> Directive[Black, FontFamily -> "Times New Roman"]]
```

Změna vlhkosti [%]



```
In[1208]= Export["Graf.png", porov, ImageResolution -> 300]
```

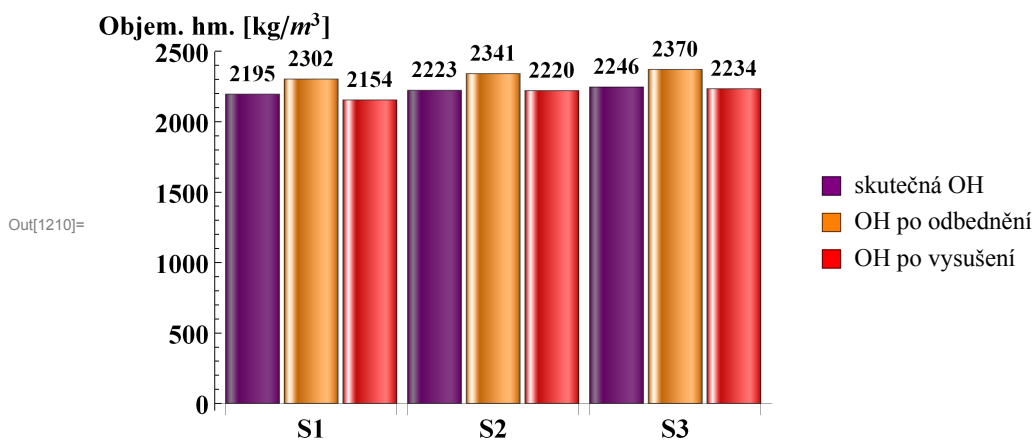
Out[1208]= Graf.png

```
In[1209]= Prvky3 = {{2195, 2302, 2154}, {2223, 2341, 2220}, {2246, 2370, 2234}};
```

```

In[1210]= GrafCelk = BarChart[Prvky3,
  ChartElementFunction → "GlassRectangle", ChartStyle → {Purple, Orange, Red},
  LabelingFunction → (Placed[Style[#, FontSize → 12, Bold], Above] &),
  ChartLabels → {Placed[Style["S1", FontSize → 14, Bold],
    Style["S2", FontSize → 14, Bold], Style["S3", FontSize → 14, Bold]}, Below],
  Placed[{Null, Null, Null}, Above]}, ChartLegends →
  {"skutečná OH", "OH po odbednění", "OH po vysušení"},
  AxesStyle → Directive[Black, 14, FontFamily → "Times New Roman",
    Bold, FontFamily → "Times New Roman"],
  AxesLabel → {Null, Style["Objem. hm. [kg/m³]", 14]},
  LabelStyle → Directive[Black, FontFamily → "Times New Roman"]

```



```

In[1211]= Export["GrafCelk.png", GrafCelk, ImageResolution → 300]

```

```

Out[1211]= GrafCelk.png

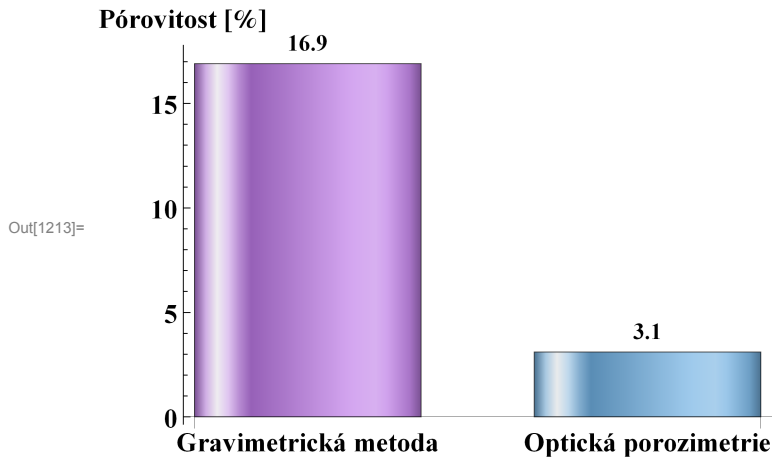
```

```

In[1212]=

```

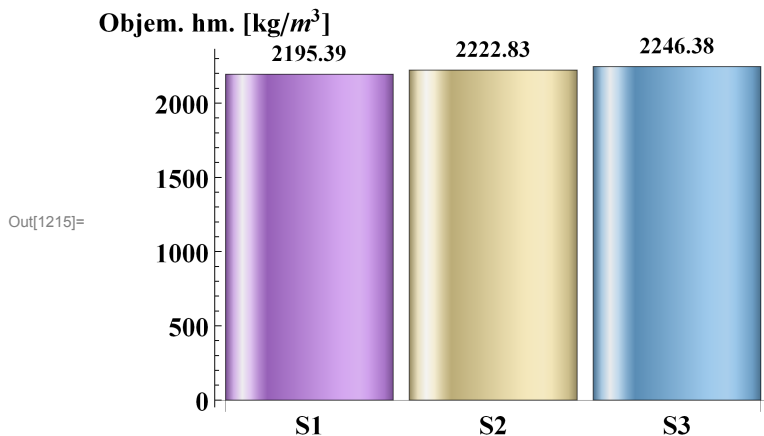
```
In[1213]= porovitost = BarChart[{16.9, 3.1},
  ChartElementFunction → "GlassRectangle", ChartStyle → "Pastel",
  LabelingFunction → (Placed[Style[#, FontSize → 12, Bold], Above] &),
  ChartLabels → {Placed[{Style["Gravimetrická metoda", FontSize → 14, Bold],
    Style["Optická porozimetrie", FontSize → 14, Bold]}, Below]},
  AxesStyle → Directive[Black, 14, FontFamily → "Times New Roman",
    Bold, FontFamily → "Times New Roman"],
  AxesLabel → {Null, Style["Pórovitost [%]", 14]},
  LabelStyle → Directive[Black, FontFamily → "Times New Roman"], BarSpacing → 0.5]
```



```
In[1214]= Export["Porovitost.png", porovitost, ImageResolution → 300]
```

Out[1214]= Porovitost.png

```
In[1215]= ObjemHm = BarChart[{2195.39, 2222.83, 2246.38},
  ChartElementFunction → "GlassRectangle", ChartStyle → "Pastel",
  LabelingFunction → (Placed[Style[#, FontSize → 12, Bold], Above] &),
  ChartLabels → {Placed[{Style["S1", FontSize → 14, Bold],
    Style["S2", FontSize → 14, Bold], Style["S3", FontSize → 14, Bold]}, Below]},
  AxesStyle → Directive[Black, 14, FontFamily → "Times New Roman",
    Bold, FontFamily → "Times New Roman"],
  AxesLabel → {Null, Style["Objem. hm. [kg/m³]", 14]},
  LabelStyle → Directive[Black, FontFamily → "Times New Roman"]]
```



```
In[1216]= Export["ObjemHm.png", ObjemHm, ImageResolution -> 300]
```

```
Out[1216]= ObjemHm.png
```

```
In[1217]= (* {Purple, Orange, Red} *)
```

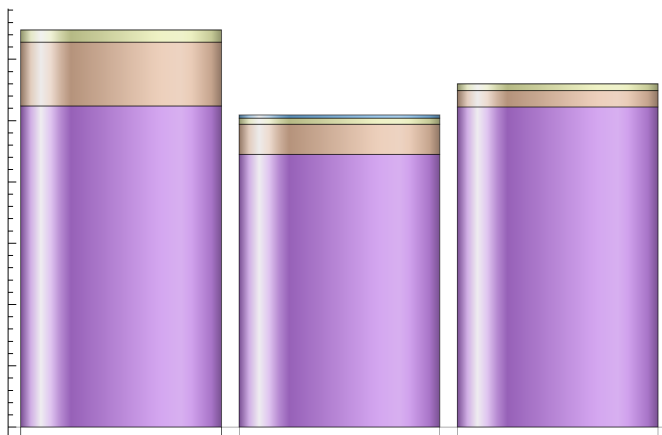
```
In[1218]= (*BarChart[Dvojice2, ChartElementFunction->"GlassRectangle",
  ChartStyle->"Rainbow", ChartLegends->{"vysušování", "nasákavost"}, ChartLabels->
  {Placed[{Style["S1", FontSize->16, Bold], Style["S2", FontSize->16, Bold],
    Style["S3", FontSize->16, Bold]}, Below], Placed[{1, 2}, Above]},
  AxesStyle->Directive[Black, 16, FontFamily->"Times New Roman",
    Bold, FontFamily->"Times New Roman"],
  LabelStyle->Directive[Black, FontFamily->"Times New Roman"],
  FrameStyle->Directive[Black, FontFamily->"Times New Roman", 16, Bold],
  Frame->True, FrameLabel->{Null, Style[" Změna vlhkosti [%] ", 16, Bold]},
  PlotRange->{Automatic, {0, 10}}]*)
```

```
In[1219]= (*
```

```
*)
```

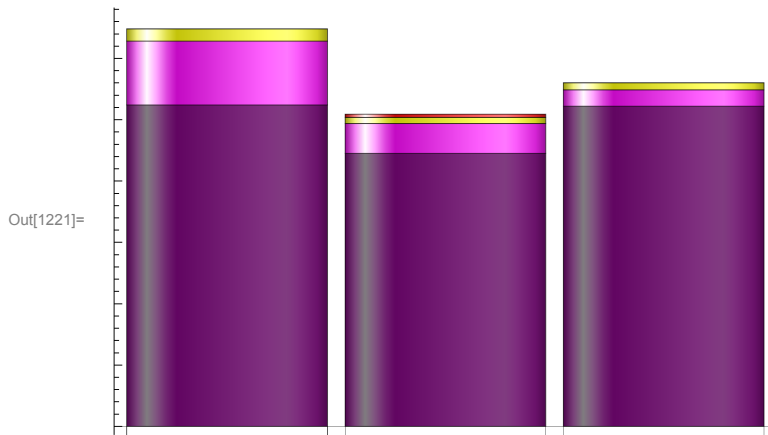
```
In[1220]= BarChart[Prvky, ChartLayout -> "Stacked",
  ChartElementFunction -> "GlassRectangle", ChartStyle -> "Pastel"]
```

```
Out[1220]=
```

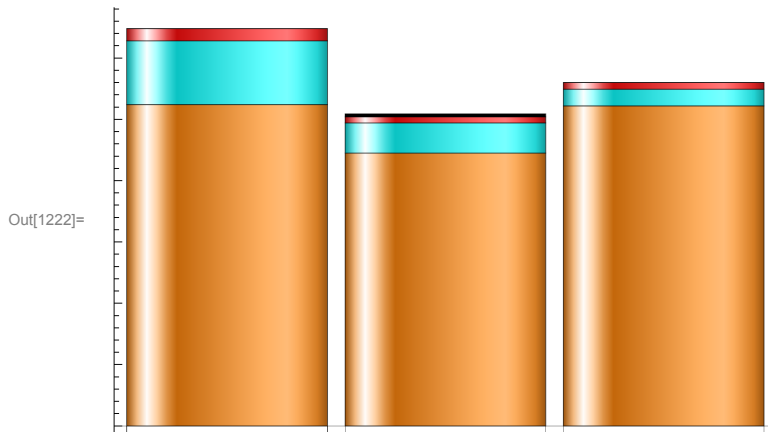




```
In[1221]:= BarChart[Prvky, ChartLayout -> "Stacked", ChartElementFunction -> "GlassRectangle",
  ChartStyle -> {Purple, Magenta, Yellow, Red}]
```

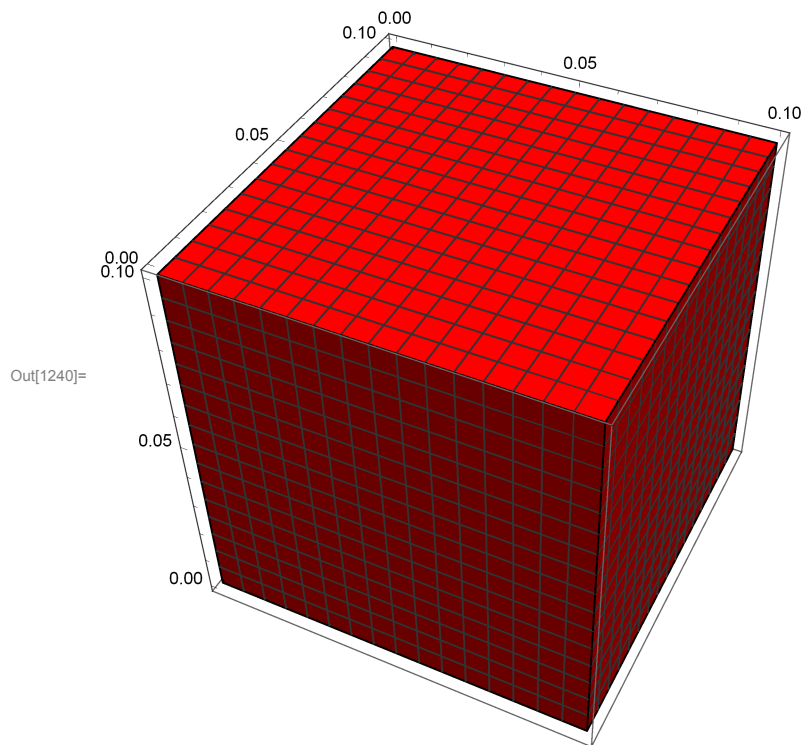


```
In[1222]:= BarChart[Prvky, ChartLayout -> "Stacked",
  ChartElementFunction -> "GlassRectangle", ChartStyle -> {Orange, Cyan, Red, Black}]
```



```
In[1223]:= (*Manipulate[BarChart[Prvky, ChartLayout->"Stacked",
  ChartElementFunction->"GlassRectangle", ChartStyle->n], {n, 1, 100, 1}]*)
```

```
In[1240]:= kr = RegionPlot3D[(x + 100)^2 + y^3 - z^2 > 0,  
  {x, 0, 0.1}, {y, 0, 0.1}, {z, 0, 0.1}, PlotStyle -> Red]
```



```
In[1235]:= Export["Krychle.png", kr, ImageResolution -> 300]
```

Out[1235]= Krychle.png