

Statistical Thinking

Introduction

2 min

Let's imagine we are working for the city government of the fictional city of Melody Metropolis. The mayor of Melody Metropolis wants to know more about the musicians who currently live in the city. The learning environment shows a dataset we have on musicians living in the city as of last year. How would you describe this dataset? See if you can answer any of the following questions:

- What does a typical musician's income look like?
- Is there a wide range of musician ages?
- What proportion of the musicians in the dataset play guitar?

We can try to make generalizations by looking over the rows and columns, but it's difficult to answer these questions precisely. We need some kind of "data vocabulary" that can help us measure and describe the [variables](#) in the dataset. *Summary statistics* can be used for exactly this purpose!

With a basic understanding of summary [statistics](#), we can communicate and understand a lot more specific information about the musicians in the city. But learning statistics is often associated with a lot of negativity:

- Memorization of lots of math formulas
- Long calculations done by hand
- Confusing or meaningless interpretations

None of these struggles need to be part of learning to use statistics. In this lesson, we'll gain a conceptual understanding of how summary statistics can easily help us communicate and interpret our dataset.

Instructions

Before moving to the next exercise, familiarize yourself with the following names and descriptions of the variables in the dataset:

- age: age in years
- income: yearly income in US dollars
- title: primary job title
- experience: years of experience in the field of music
- instrument: primary instrument
- band: whether in a band (1 = yes, 0 = no)

What are you interested in learning about the musicians of Melody Metropolis?

musictest.csv

"age","income","title","experience","instrument","band"

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52,43574,"composer",27,"drums",1

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BGfZcylsYks6ImNsYXNZiGluDGVyZmFjZSIsZTovW3s7PVOlVLGVFOiEwLGS6ImNsYXNZiGluDGVyZmFjZSIsaTovWzoiXFtcXV0vLGM6W3tiSzoizXh0ZW5kcyBpbXBsZW1lbnRzIn0sZS5VVE1dfSx7Yks6Im5ldyB0aHJvdjByZXR1cm4gZWxzZSIsajowfSx7Y046ImZ1bmN0aW9uIixiOiOilolit0KyJcXHMmRkSsiK2UuVUISkyJcXHMqXFwoliXyQjohMCxIOi9bezs9XS8sZUU6ITasazpyLGM6W3tiOmUuVUISkyJcXHMqXFwoliXyQjohMCxYojAsYzpbZS5VVE1dfSx7Y046InBhcmFtcylsYjovXCgvLGU6L1wpLyxrOnIscjowLGM6W2UuQVNNLGUuUVNNLGUuQ05NLGUuQ0JDTV19LGUuQ0xDTsXlLkNCQ01dfSxjLHtjTjoibWV0YSIsYjoiQFtBLVphLXpdKyJ9XX19KTtobGpzLnJlZ2lzdGVyTGFuZ3VhZ2UoInN0YW4iLGZ1bmN0aW9uKGUpe3JldHVybntjOltlLkhDTSxIlkNMQ00sZS5DQkNNLHtiOmUuVUISLgW6ZS5VSVIsazp7bmfTzToiZm9yIGluHdoawXlIHJlCGVhdCB1bnRpbCBpZiB0aGVuIGVsc2UiLHN5bWJvbDoiYmVybm91bGxpIGJlcm5vdWxsaV9sb2dpdCBiaW5vbWlhbCBiaW5vbWlhbF9sb2dpdCBiZXRhX2Jpbm9taWFsIGh5cGVyZ2VvbWV0cmliJGNhdGVnb3JpY2F5IGNhdGVnb3JpY2F5X2xvZ2l0IG9yZGVyZWRFbG9naXN0aWMgbmVnX2Jpbm9taWFsIG5lZ19iaW5vbWlhbF8yIG5lZ19iaW5vbWlhbF8yX2xvZyBwb2lzc29uIHVvaXNzb25fbG9nIG11bHRpbm9taWFsIG5vcmlhbCBleHBfbW9kX25vcmlhbCBza2V3X25vcmlhbCBzdHVkZW50X3QgY2F1Y2h5IGRvdWJsZV9leHBvbmvudGlhbCBsb2dpc3RpYyBndW1iZWwgbG9nbm9ybWfWfSfIGNoaV9zcXVhcmUgaW52X2NoaV9zcXVhcmUgc2NhbgVvKX2ludl9jaGlf3F1YXJlIGV4cG9uZW50aWfSfIGludl9nYW1tYSB3ZWlidWxslGZyZWNoZXQgcmF5bGVpZ2ggd2llbmVylHBhcmV0byBwYXJldG9fdHlwZV8yIHZvbl9taXNlcYB1bmlmb3JtIG11bHRpX25vcmlhbCBtdWx0aV9ub3JtYWxf3JtYXxfY2hvbGVza3kgbXVsdGl3Z3AgbXVsdGl3Z3BfY2hvbGVza3kgbXVsdGl3Z3R1ZGVudF90IGdhbXNzaWfUx2RsbV9vYnMgZGlyaWNobGV0IGxral9jb3JyIGxral9jb3JyX2Nob2xlc2t5IHdp32hhcnQgaW52X3dpc2hhcnQilCJzZWxly3Rvci10YWciOiJpbmQgcmVhbCB2ZWNo3lgc2ltcGxleCB1bml0X3ZlY3RvciBvcmlcmVklHBvc2l0aXZlX29yZGVyZWQgcm93X3ZlY3RvciBtYXRyaXggY2hvbGVza3lfZmFjdG9yX2NvcnlgY2hvbGVza3lfZmFjdG9yX2NvdiBjb3JyX21hdHJpeCBjb3ZfbWF0cm14lix0aXRszToiZnVuY3Rpb25zIG1vZGVsIGRhGEgcGFyYW1dGVy3Y3BxdWFudGl0aWVzIHRYYW5zZm9ybWVklGdlbmVYXRlZCIsbGl0ZXJhbDoidHJ1ZSBmYWxzZS9JLHl6MH0se2NOOIjudW1iZXIiLG16ljBbeFhdWzAtOWEtZkEtRl0rW0xpXT9cXG1iLHl6MH0se2NOOIjudW1iZXIiLG16ljBbeFhdWzAtOWEtZkEtRl0rW0xpXT9cXG1iLHl6MH0se2NOOIjudW1iZXIiLG16lxcZCsoPzpbZUVdWytXC1dP1xcZCOP0xcXG1iLHl6MH0se2NOOIjudW1iZXIiLG16lxcZCtXC4oPyFcXGQpKD86aVxcYik/lixyOjB9LHtjTjoibnVtYmVylxiOiJcXGQRKD86XFwuXfXkKik/KD86W2VFXvsrXfwtXT9cXGQqKT9pP1xcYilscjowfSx7Y046Im51bWJlcisYjoiXFwuXfXkKy3g/OltIRV1bK1xcLV0/XfXkKik/aT9cXG1iLHl6MH1dfX0pO2hsanMucmVnaXN0ZXJMYW5ndWFnZSgiamF2YXNjcmlwdCIsZnVuY3Rpb24oZSI7dmFyIH9lItBLVphLXokX11bMC05QS1aYS16JF9dKilsdD17a2V5d29yZDoiaW4gb2YgaWYgZm9yIHdoawXlIGZpbmFsbHkgdmFylG5ldyBmdW5jdGl3biBkbyByZXR1cm4gdm9pZCBlbHNlIGJyZWFrIGNhdGNoIGluc3RhbmNlb2Ygd2l0aCB0aHJvdjBjYXNlIGRlZmF1bHQgdHJ5IHROaXMgc3dpdGNoIGNvbnRpbmVlIHRS5cGVvZiBkZWxldGUgbGV0IHlpZWxkiGNvbnN0IGV4cG9ydCBzdXBldiBkZWJ1Z2dlciBhcyBhc3luYyBhd2FpdCBzdGF0aWMgaW1wb3J0IGZyb20gYXMiLXpdGVyYWw6InRydWUgZmFsc2UgbnVsY3RpbmRlZmluZWQgTmFOIEluZmluaXR5lxiidWlsdF9pbjoiZXZhbCBpc0Zpbm10ZS5Bpc05hTiBwYXJzZUzsb2F0IHhcnNlSW50IGRIY29kZVVSSSBkZWNVZGVVUklDb21wb25lbnQgZW5jb2RlVlVJlGVuY29kZVVSSUNvbXBvbmvudCBld2NhcGUgdW5lc2NhcGUgT2JqZWNoIEZ1bmN0aW9uIEJvb2xlyW4gRXJyb3lgrXZhbEVycm9yEludGVybmfSfRXJyb3l3UmFuZ2VFc3JvciBSZWZlcmV3V2VFc3JvciBTdG9wSXRlcmF0aW9uIFN5bnRheEVycm9yIFR5cGVFc3JvciBVUklFc3JvciB0dW1iZXl3TWF0aCBEYXRlIFN0cm1uZyBSZWdFeHAgQXJyYXkgRmxvYXQzMkFycmF5IEZsb2F0NjRlbnRheSBjbnRqXNkFycmF5IEludDMYqXJyYXkgSW50OEFycmF5IFVpbnRqXNkFycmF5IFVpbnRqZmFycmF5IFVpbnRqX2QXJyYXkgVWludDhDbGf3cGVvKX2ludl9jaGlf3F1YXJlIGV4cG9uZW50aWfSfIGludl9nYW1tYSB3ZWlidWxslGZyZWNoZXQgcmF5bGVpZ2ggd2llbmVylHBhcmV0byBwYXJldG9fdHlwZV8yIHZvbl9taXNlcYB1bmlmb3JtIG11bHRpX25vcmlhbCBtdWx0aV9ub3JtYWxf3JtYXxfY2hvbGVza3kgbXVsdGl3Z3AgbXVsdGl3Z3BfY2hvbGVza3kgbXVsdGl3Z3R1ZGVudF90IGdhbXNzaWfUx2RsbV9vYnMgZGlyaWNobGV0IGxral9jb3JyIGxral9jb3JyX2Nob2xlc2t5IHdp32hhcnQgaW52X3dpc2hhcnQilCJzZWxly3Rvci10YWciOiJpbmQgcmVhbCB2ZWNo3lgc2ltcGxleCB1bml0X3ZlY3RvciBvcmlcmVklHBvc2l0aXZlX29yZGVyZWQgcm93X3ZlY3RvciBtYXRyaXggY2hvbGVza3lfZmFjdG9yX2NvcnlgY2hvbGVza3lfZmFjdG9yX2NvdiBjb3JyX21hdHJpeCBjb3ZfbWF0cm14lix0aXRszToiZnVuY3Rpb25zIG1vZGVsIGRhGEgcGFyYW1dGVy3Y3BxdWFudGl0aWVzIHRYYW5zZm9ybWVklGdlbmVYXRlZCIsbGl0ZXJhbDoidHJ1ZSBmYWxzZS9JLHl6MH0se2NOOIjudW1iZXIiLG16ljBbeFhdWzAtOWEtZkEtRl0rW0xpXT9cXG1iLHl6MH0se2NOOIjudW1iZXIiLG16lxcZCsoPzpbZUVdWytXC1dP1xcZCOP0xcXG1iLHl6MH0se2NOOIjudW1iZXIiLG16lxcZCtXC4oPyFcXGQpKD86aVxcYik/lixyOjB9LHtjTjoibnVtYmVylxiOiJcXGQRKD86XFwuXfXkKik/KD86W2VFXvsrXfwtXT9cXGQqKT9pP1xcYilscjowfSx7Y046Im51bWJlcisYjoiXFwuXfXkKy3g/OltIRV1bK1xcLV0/XfXkKik/aT9cXG1iLHl6MH1dfX0pO2hsanMucmVnaXN0ZXJMYW5ndWFnZSgiamF2YXNjcmlwdCIsZnVuY3Rpb24oZSI7dmFyIH9lItBLVphLXokX11bMC05QS1aYS16JF9dKilsdD17a2V5d29yZDoiaW4gb2YgaWYgZm9yIHdoawXlIGZpbmFsbHkgdmFylG5ldyBmdW5jdGl3biBkbyByZXR1cm4gdm9pZCBlbHNlIGJyZWFrIGNhdGNoIGluc3RhbmNlb2Ygd2l0aCB0aHJvdjBjYXNlIGRlZmF1bHQgdHJ5IHROaXMgc3dpdGNoIGNvbnRpbmVlIHRS5cGVvZiBkZWxldGUgbGV0IHlpZWxkiGNvbnN0IGV4cG9ydCBzdXBldiBkZWJ1Z2dlciBhcyBhc3luYyBhd2FpdCBzdGF0aWMgaW1wb3J0IGZyb20gYXMiLXpdGVyYWw6InRydWUgZmFsc2UgbnVsY3RpbmRlZmluZWQgTmFOIEluZmluaXR5lxiidWlsdF9pbjoiZXZhbCBpc0Zpbm10ZS5Bpc05hTiBwYXJzZUzsb2F0IHhcnNlSW50IGRIY29kZVVSSSBkZWNVZGVVUklDb21wb25lbnQgZW5jb2RlVlVJlGVuY29kZVVSSUNvbXBvbmvudCBld2NhcGUgdW5lc2NhcGUgT2JqZWNoIEZ1bmN0aW9uIEJvb2xlyW4gRXJyb3lgrXZhbEVycm9yEludGVybmfSfRXJyb3l3UmFuZ2VFc3JvciBSZWZlcmV3V2VFc3JvciBTdG9wSXRlcmF0aW9uIFN5bnRheEVycm9yIFR5cGVFc3JvciBVUklFc3JvciB0dW1iZXl3TWF0aCBEYXRlIFN0cm1uZyBSZWdFeHAgQXJyYXkgRmxvYXQzMkFycmF5IEZsb2F0NjRlbnRheSBjbnRqXNkFycmF5IEludDMYqXJyYXkgSW50OEFycmF5IFVpbnRqXNkFycmF5IFVpbnRqZmFycmF5IFVpbnRqX2QXJyYXkgVWludDhDbGf3cGVvKX2ludl9jaGlf3F1YXJlIGV4cG9uZW50aWfSfIGludl9nYW1tYSB3ZWlidWxslGZyZWNoZXQgcmF5bGVpZ2ggd2llbmVylHBhcmV0byBwYXJldG9fdHlwZV8yIHZvbl9taXNlcYB1bmlmb3JtIG11bHRpX25vcmlhbCBtdWx0aV9ub3JtYWxf3

```
div.column{display: inline-block; vertical-align: top; width: 50%;}
```

```
div.hanging-indent{margin-left: 1.5em; text-indent: -1.5em;}  
ul.task-list{list-style: none;}  
  
</style>
```

```
<style type="text/css">code{white-space: pre;}</style>  
<script type="text/javascript">  
if (window.hljs) {  
  hljs.configure({languages: []});  
  hljs.initHighlightingOnLoad();  
  if (document.readyState && document.readyState === "complete") {  
    window.setTimeout(function() { hljs.initHighlighting(); }, 0);  
  }  
}  
</script>
```

```
<style type="text/css">  
#rmd-source-code {  
  display: none;  
}  
</style>
```

```
<style type="text/css">  
.main-container {  
  max-width: 940px;  
  margin-left: auto;  
  margin-right: auto;
```

```
}  
  
img {  
    max-width:100%;  
}  
  
.tabbed-pane {  
    padding-top: 12px;  
}  
  
.html-widget {  
    margin-bottom: 20px;  
}  
  
button.code-folding-btn:focus {  
    outline: none;  
}  
  
summary {  
    display: list-item;  
}  
  
pre code {  
    padding: 0;  
}  
</style>
```

```
<style type="text/css">  
  
.kable-table {  
    border: 1px solid #ccc;  
    border-radius: 4px;  
    overflow: auto;  
    padding-left: 8px;  
    padding-right: 8px;  
    margin-bottom: 20px;  
    max-height: 350px;  
}
```



```
.kable-table table {  
  margin-bottom: 0px;  
}
```

```
.kable-table table>thead>tr>th {  
  border: none;  
  border-bottom: 2px solid #dddddd;  
}
```

```
.kable-table table>thead {  
  background-color: #fff;  
}
```

```
</style>
```

```
<!-- tabsets -->
```

```
<style type="text/css">
```

```
.tabset-dropdown > .nav-tabs {  
  display: inline-table;  
  max-height: 500px;  
  min-height: 44px;  
  overflow-y: auto;  
  border: 1px solid #ddd;  
  border-radius: 4px;  
}
```

```
.tabset-dropdown > .nav-tabs > li.active:before {  
  content: "☐ ";  
  font-family: 'Glyphicons Halflings';  
  display: inline-block;  
  padding: 10px;
```

```
border-right: 1px solid #ddd;
}
```

```
.tabset-dropdown > .nav-tabs.nav-tabs-open > li.active:before {
  content: "☒ ";
  border: none;
}
```

```
.tabset-dropdown > .nav-tabs.nav-tabs-open:before {
  content: "☐ ";
  font-family: 'Glyphicons Halflings';
  display: inline-block;
  padding: 10px;
  border-right: 1px solid #ddd;
}
```

```
.tabset-dropdown > .nav-tabs > li.active {
  display: block;
}
```

```
.tabset-dropdown > .nav-tabs > li > a,
.tabset-dropdown > .nav-tabs > li > a:focus,
.tabset-dropdown > .nav-tabs > li > a:hover {
  border: none;
  display: inline-block;
  border-radius: 4px;
  background-color: transparent;
}
```

```
.tabset-dropdown > .nav-tabs.nav-tabs-open > li {
  display: block;
  float: none;
```

```
}
```

```
.tabset-dropdown > .nav-tabs > li {
```

```
  display: none;
```

```
}
```

```
</style>
```

```
<!-- code folding -->
```

```
<style type="text/css">
```

```
.code-folding-btn { margin-bottom: 4px; }
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container-fluid main-container">
```

```
<div id="header">
```

```
<div class="btn-group pull-right float-right">
```

```
<button type="button" class="btn btn-default btn-xs btn-secondary btn-sm dropdown-toggle" data-  
toggle="dropdown" aria-haspopup="true" aria-expanded="false"><span>Code</span> <span  
class="caret"></span></button>
```

```
<ul class="dropdown-menu dropdown-menu-right" style="min-width: 50px;">
```

```
<li><a id="rmd-show-all-code" href="#">Show All Code</a></li>
```

```
<li><a id="rmd-hide-all-code" href="#">Hide All Code</a></li>
<li role="separator" class="divider"></li>
<li><a id="rmd-download-source" href="#">Download Rmd</a></li>
</ul>
</div>
```

```
<h1 class="title toc-ignore">Musician Dataset</h1>
```

```
</div>
```

```
<!-- rnb-text-begin -->
<!-- rnb-text-end -->
<!-- rnb-chunk-begin -->
<table>
<thead>
<tr class="header">
<th align="right">age</th>
<th align="right">income</th>
<th align="right">title</th>
<th align="right">experience</th>
<th align="right">instrument</th>
<th align="right">band</th>
</tr>
</thead>
<tbody>
<tr class="odd">
<td align="right">40</td>
<td align="right">40840</td>
<td align="right">performer</td>
```

```
<td align="right">13</td>
<td align="right">guitar</td>
<td align="right">1</td>
</tr>
<tr class="even">
<td align="right">54</td>
<td align="right">21689</td>
<td align="right">composer</td>
<td align="right">11</td>
<td align="right">voice</td>
<td align="right">1</td>
</tr>
<tr class="odd">
<td align="right">37</td>
<td align="right">43153</td>
<td align="right">composer</td>
<td align="right">28</td>
<td align="right">piano</td>
<td align="right">0</td>
</tr>
<tr class="even">
<td align="right">47</td>
<td align="right">58113</td>
<td align="right">composer</td>
<td align="right">31</td>
<td align="right">violin</td>
<td align="right">0</td>
</tr>
<tr class="odd">
<td align="right">52</td>
<td align="right">24518</td>
<td align="right">producer</td>
```

```
<td align="right">13</td>
<td align="right">guitar</td>
<td align="right">1</td>
</tr>
<tr class="even">
<td align="right">52</td>
<td align="right">43574</td>
<td align="right">composer</td>
<td align="right">27</td>
<td align="right">drums</td>
<td align="right">1</td>
</tr>
<tr class="odd">
<td align="right">58</td>
<td align="right">27637</td>
<td align="right">performer</td>
<td align="right">9</td>
<td align="right">violin</td>
<td align="right">1</td>
</tr>
<tr class="even">
<td align="right">57</td>
<td align="right">25707</td>
<td align="right">performer</td>
<td align="right">8</td>
<td align="right">piano</td>
<td align="right">1</td>
</tr>
<tr class="odd">
<td align="right">37</td>
<td align="right">26169</td>
<td align="right">composer</td>
```

```
<td align="right">8</td>
<td align="right">piano</td>
<td align="right">0</td>
</tr>
<tr class="even">
<td align="right">28</td>
<td align="right">30852</td>
<td align="right">educator</td>
<td align="right">9</td>
<td align="right">guitar</td>
<td align="right">1</td>
</tr>
<tr class="odd">
<td align="right">65</td>
<td align="right">48403</td>
<td align="right">composer</td>
<td align="right">22</td>
<td align="right">guitar</td>
<td align="right">1</td>
</tr>
<tr class="even">
<td align="right">51</td>
<td align="right">40874</td>
<td align="right">educator</td>
<td align="right">15</td>
<td align="right">guitar</td>
<td align="right">0</td>
</tr>
<tr class="odd">
<td align="right">49</td>
<td align="right">29925</td>
<td align="right">performer</td>
```

```
<td align="right">9</td>
<td align="right">piano</td>
<td align="right">1</td>
</tr>
<tr class="even">
<td align="right">37</td>
<td align="right">20350</td>
<td align="right">manager</td>
<td align="right">9</td>
<td align="right">voice</td>
<td align="right">1</td>
</tr>
<tr class="odd">
<td align="right">38</td>
<td align="right">25049</td>
<td align="right">performer</td>
<td align="right">17</td>
<td align="right">drums</td>
<td align="right">1</td>
</tr>
<tr class="even">
<td align="right">41</td>
<td align="right">33209</td>
<td align="right">producer</td>
<td align="right">29</td>
<td align="right">voice</td>
<td align="right">1</td>
</tr>
<tr class="odd">
<td align="right">37</td>
<td align="right">35711</td>
<td align="right">performer</td>
```



```
<td align="right">14</td>
<td align="right">piano</td>
<td align="right">0</td>
</tr>
<tr class="even">
<td align="right">40</td>
<td align="right">61691</td>
<td align="right">performer</td>
<td align="right">28</td>
<td align="right">saxophone</td>
<td align="right">1</td>
</tr>
<tr class="odd">
<td align="right">43</td>
<td align="right">24854</td>
<td align="right">performer</td>
<td align="right">6</td>
<td align="right">voice</td>
<td align="right">1</td>
</tr>
<tr class="even">
<td align="right">57</td>
<td align="right">24583</td>
<td align="right">performer</td>
<td align="right">31</td>
<td align="right">drums</td>
<td align="right">0</td>
</tr>
<tr class="odd">
<td align="right">39</td>
<td align="right">45258</td>
<td align="right">performer</td>
```

```
<td align="right">24</td>
<td align="right">violin</td>
<td align="right">1</td>
</tr>
<tr class="even">
<td align="right">39</td>
<td align="right">36205</td>
<td align="right">performer</td>
<td align="right">15</td>
<td align="right">guitar</td>
<td align="right">1</td>
</tr>
<tr class="odd">
<td align="right">29</td>
<td align="right">33473</td>
<td align="right">performer</td>
<td align="right">13</td>
<td align="right">piano</td>
<td align="right">1</td>
</tr>
<tr class="even">
<td align="right">47</td>
<td align="right">24387</td>
<td align="right">performer</td>
<td align="right">13</td>
<td align="right">guitar</td>
<td align="right">0</td>
</tr>
<tr class="odd">
<td align="right">50</td>
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<!-- rnb-text-begin -->
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<!-- rnb-text-end -->

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<div id="rmd-source-  
code">LS0tCnRpdGxIOiAiTXVzaWNpYW4gRGF0YXNldCIKb3V0cHV0OiBodG1sX2RvY3VtZW50Ci0tLQoKYG  
Bge3IsIGVjaG89RkFMU0V9CmxpYnJhcnoa25pdHlpCm11c2ljIDwtIHJlYWQuY3N2KCJtdXNpY3Rlc3QuY3N  
2likKa2FibGUoaGVhZChtdXNpYywxMDApLCBhbGlbnj0ncicpCmBgYaoK</div>
```

</div>

<script>

```
// add bootstrap table styles to pandoc tables
```

```
function bootstrapStylePandocTables() {  
  $('tr.odd').parent('tbody').parent('table').addClass('table table-condensed');  
}  
$(document).ready(function () {  
  bootstrapStylePandocTables();  
});
```

```
$(document).ready(function () {  
  $('knitsql-table').addClass('kable-table');  
  var container = $('kable-table');  
  container.each(function() {  
  
    // move the caption out of the table  
    var table = $(this).children('table');  
    var caption = table.children('caption').detach();  
    caption.insertBefore($(this)).css('display', 'inherit');  
  });  
});
```

```
</script>
```

```
<!-- tabsets -->
```

```
<script>
```

```
$(document).ready(function () {  
  window.buildTabsets("TOC");  
});
```

```
$(document).ready(function () {  
  $(''.tabset-dropdown > .nav-tabs > li').click(function () {  
    $(this).parent().toggleClass('nav-tabs-open');  
  });  
});  
</script>
```

```
<!-- code folding -->
```

```
<script>
```

```
$(document).ready(function () {  
  window.initializeSourceEmbed("notebook.Rmd");  
  window.initializeCodeFolding("show" === "show");  
});  
</script>
```

```
<!-- dynamically load mathjax for compatibility with self-contained -->
```

```
<script>
```

```
(function () {  
  var script = document.createElement("script");  
  script.type = "text/javascript";  
  script.src = "https://mathjax.rstudio.com/latest/MathJax.js?config=TeX-AMS-MML_HTMLorMML";  
  document.getElementsByTagName("head")[0].appendChild(script);  
})
```

```
})();  
</script>  
  
</body>  
</html>
```

Musician Dataset

Code ▾

age	income	title	experience	instrument	band
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54	21689	composer	11	voice	1
37	43153	composer	28	piano	0
47	58113	composer	31	violin	0
52	24518	producer	13	guitar	1
52	43574	composer	27	drums	1
58	27637	performer	9	violin	1
57	25707	performer	8	piano	1
37	26169	composer	8	piano	0
28	30852	educator	9	guitar	1
65	48403	composer	22	guitar	1
51	40874	educator	15	guitar	0
49	29925	performer	9	piano	1
37	20350	manager	9	voice	1
38	25049	performer	17	drums	1