**Transcription: Scatterplots in SPSS**

The next thing we're going to look at is how to create a scatter plot in SPSS. Remember, the scatterplot visualizes the relationship between two numeric variables. To create a scatter plot, we will go to “Graphs” and “Scatter/Dot...”. And this time we will select “Simple Scatter”. Once we click “Define”, we'll be able to select our x- and y-axis.

So, this time, let's say we are curious if there is a relationship between states spending on public education and teacher pay. We might imagine that states that spend a lot on student education would also tend to pay their teachers well and vice versa. If we wanted to look at this visually, we can select one of the variables for the y-axis. Let's select “dollars” here. Once we click the arrow, it will move it into the “Y Axis” field. To select our x-axis variable, we'll click on “pay” and again click this arrow to move it into the “X Axis” field. Again, we have a lot of different options we could select within titles and options. You can do that if you want to make your graph look nicer, for example by having a descriptive title, but for now we're just looking at how to create the visualizations, so we'll leave everything as is. Well, you can select “OK” and that will bring up this scatter plot.

On the x-axis we have teacher pay in thousands of dollars per year and on the y-axis we have public school expenditures in thousands of dollars per student per year. As we hypothesized, we're seeing this positive relationship where states that spend a very small amount on public education also tend to pay their teachers smaller salaries. Whereas states that spend higher amounts on public education tend to pay their teachers more. And by the looks of this, this relationship is quite strong, so we're seeing this nice, clearly defined upward sloping line here.

So that's how we can create scatter plots, and this is very useful anytime you want to look at the relationship between two numeric variables.