

InspireData™ Quick Start Tutorial

This tutorial is a great starting point for learning how to use InspireData. The four lessons are in small, manageable sections so you can learn the basics quickly. Plan on about an hour from start to finish.

You use InspireData the same way you use most Windows and Macintosh programs. For example, you use the mouse to drag objects and to select text. You also click and double-click, as well as enter information using the keyboard. If you're not comfortable doing these things, take a moment now and refer to the user's guide that came with your computer.

Conventions we use

This tutorial has instructions for both Windows and Mac OS-based computers. The Windows instructions appear first, and the Mac OS instructions immediately afterward. Here are two typical examples:

- Use the CTRL (Windows) or Command (Macintosh) key
- Press Enter (Windows) or Return (Macintosh).

When you're asked to enter specific text, the text you are to type appears in **bold**. When instructions refer directly to using a menu item, button or other interface element, the name of that element also appears in **bold**.

InspireData offers many ways to do things—from toolbar buttons to menu commands to keyboard shortcuts, but this tutorial usually shows only one way to do a task. This makes it easier to learn the task. Check the InspireData Help system and detailed directions about features in the InspireData *User's Manual* for alternatives. Pick the method that you like best.

How we organized the tutorial

Step-by-step instructions lead you through creating a table, plotting data, presenting a slide show and more.

Each of the four lessons introduces you to InspireData's unique features. When you finish the tutorial, you will be ready to collect, manipulate and analyze data on your own.

Lesson One: Introduction to Plot View

In this lesson, you'll open a database containing information about the sleep habits of a group of students. You'll learn to do the following:

- Start InspireData
- Open a database
- Quick introduction to Table View
- Switch to Plot View
- Show and change icon labels
- View record details
- Create a Venn plot
- Add a Venn loop
- Add color to further represent meaning
- Increase text size for elements in Plot View
- Create a Stack plot
- Show the mean for each level
- Create an Axis plot
- Mark items of interest
- Create a Box plot in an Axis plot
- Create a Pie plot
- Subdivide a Pie plot
- Save a document

Start InspireData

To start InspireData on a computer running Windows:

- Click the **Start** button, point to **Programs** and click **InspireData**.

The InspireData Starter screen opens.

To start InspireData on a Macintosh computer:

- Open the **InspireData** folder from the location you installed it (ideally Applications), then double-click the **InspireData** icon.

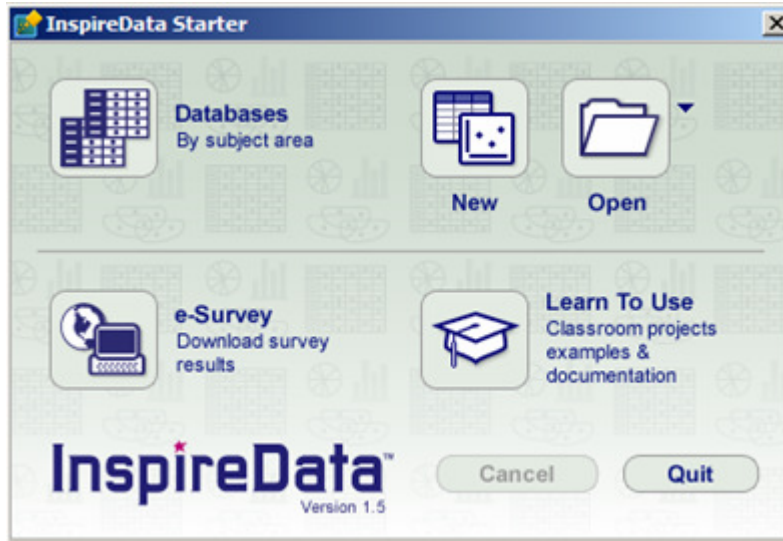
The InspireData Starter screen opens.

Open a database

InspireData has more than 100 content-rich and template databases included.

You'll begin the tutorial by opening one of the many available databases.

- Click the **Databases** button. Double-click the **More** folder, and then open **Sleep Survey**.



The Sleep Survey database opens in Table View.

Quick introduction to Table View

A table consists of fields (columns) and records (rows).

The table for the example database shown below contains information about the sleep and morning habits of a group of students. Each record represents the sleep habits of a single student. (Names here have been replaced by letter codes to protect anonymity.)


	Field						
	Student	Age	Gender	Hours Sleep	Wake Process	How Do You Wake Up?	Breakfast
Record	A	14	F	09:00	easy	naturally	medium
	B	12	F	08:30	easy	naturally	small
	C	15	M	08:00	so-so	person	small
	D	17	F	07:15	easy	alarm	small
	E	17	M	07:30	hard	alarm	large
	F	13	F	09:30	easy	naturally	large
	G	11	M	08:30	so-so	person	medium
	H	16	M	08:40	so-so	person	medium
	I	16	M	07:30	hard	alarm	none
	J	11	M	09:15	easy	naturally	none
	K	16	F	06:40	hard	alarm	none
	L	11	F	08:00	so-so	alarm	small
	M	15	M	07:15	hard	alarm	medium

The fields in the table show data that was collected about the students. The example contains numeric data (age and hours of sleep) and text data (student, gender, ease of wake process, how a student wakes up and what size breakfast they eat).

You will learn more about adding records, creating fields and importing data into a table in a later lesson. Now it's time to see how Table View and Plot View are integrated by exploring the data from our sample database in Plot View.

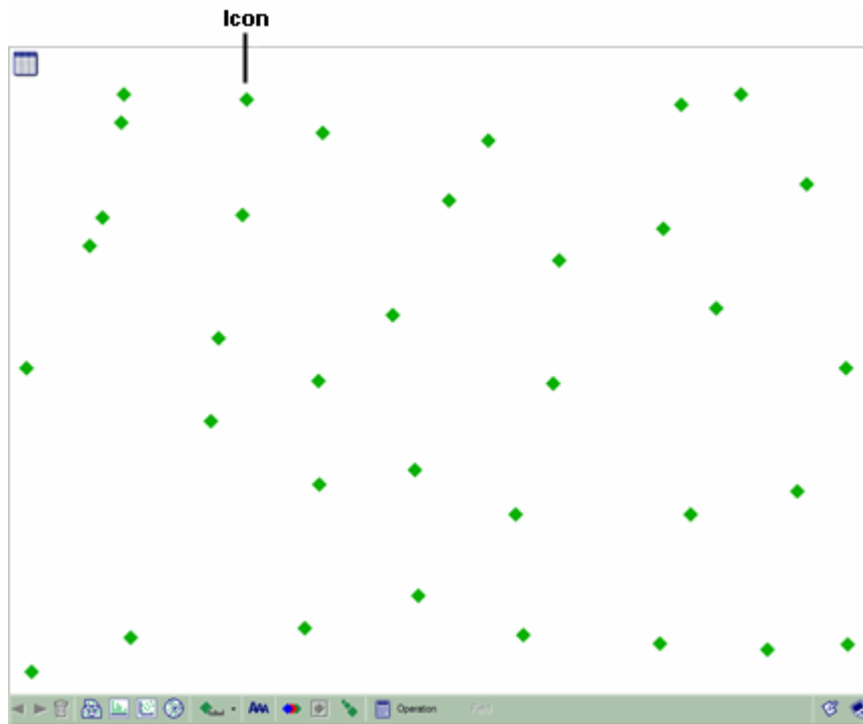
Switch to Plot View

In Plot View you can visually analyze data.

- To view your data in Plot View, click the **Plot View** button  on the **Toolbar**.



The icons you see below represent each record from the Sleep Survey table. The first time you switch from Table View to Plot View, icons are plotted freely and are moveable. Using InspireData's plotting tools, you can arrange the icons in many informative ways.

Here's what the data looks like now:

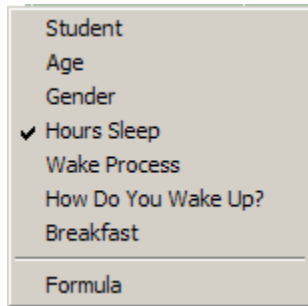


Show and change icon labels

Labels help you identify the icons. You can choose the values from any of the fields in your database as labels.

1. On the **Toolbar**, click the **Label** button  to turn on labels.
2. Experiment by choosing different fields to use for a label. Click the **Label Options** button  on the **Toolbar**.

The Label Options menu appears displaying a list of the field names from Table View.



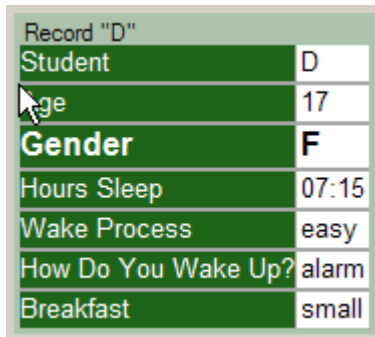
3. Select the field you want to display and see what happens to your plot.
4. Click the **Label** button again to turn the labels off.

View record details

Each icon ◆ represents one record in the database.

- Double-click on an icon ◆.

A window displaying all of the data for that record will appear.


A screenshot of a software window titled "Record 'D'" showing a list of attributes and their values. The attributes are listed on the left in a green column, and the values are in a white column. A mouse cursor is pointing at the "Age" row.

Record "D"	
Student	D
Age	17
Gender	F
Hours Sleep	07:15
Wake Process	easy
How Do You Wake Up?	alarm
Breakfast	small

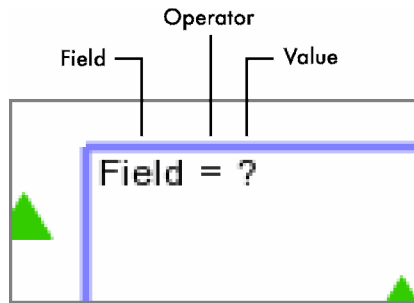
Create a Venn plot


With Venn plots you can compare and analyze relationships between sets of data.

InspireData lets you create Venn plots with up to three loops.

1. On the **Toolbar**, click the **Venn Plot** button .

A Venn loop appears with **Field = ?** in the corner of the loop. Use this equation to define which icons you want in the loop.




2. Click on the word **Field** and select **Hours Sleep** from the menu that appears.
3. Click on the **Operator**, which is currently an equals sign (=), then select < from the menu that appears
4. Click on the **question mark (?)**. Type **8:00** into the dialog, then click the **Accept** button .

Only those icons meeting the criteria—fewer than 8 hours sleep per night—now appear inside the loop.

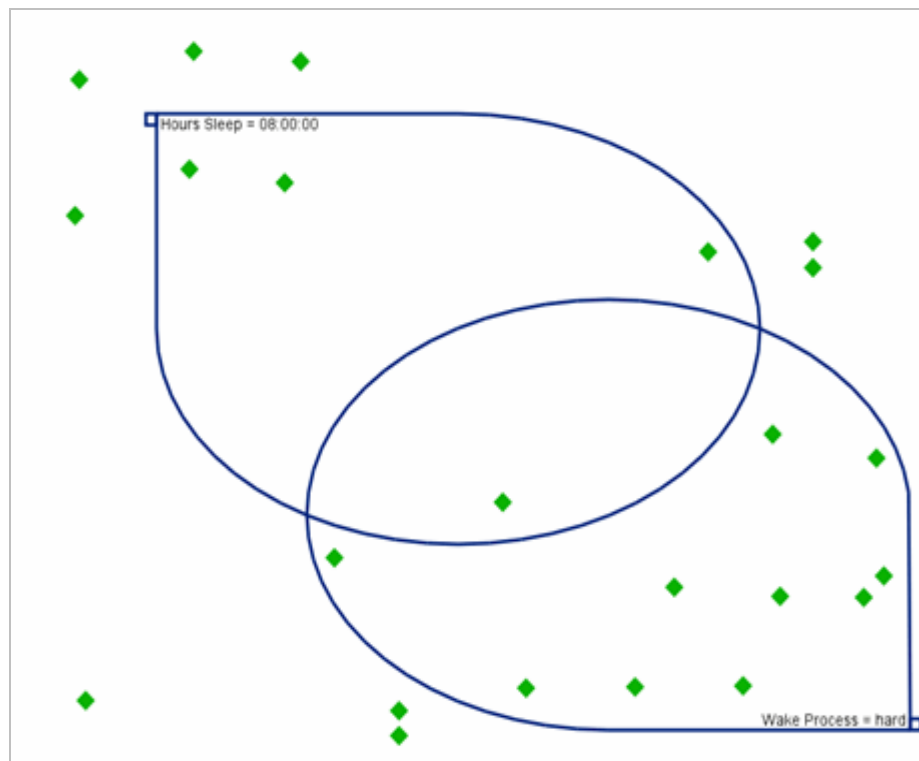
Add a Venn loop

Now you'll add a second Venn loop.

1. In the lower left corner of the workspace, click the **Add Loop** button .
2. In the equation, click on the word **Field**. Select **Wake Process**.
3. Click on the **operator**. Select **=**.
4. Click on the **question mark (?)**. Select **hard**.

Records are sorted into multiple categories. Where the two loops overlap, you can see that the students who get fewer than 8 hours of sleep have a harder time waking up. Students who do not match the characteristics you have set (in this case, the students who get more than 8 hours of sleep **and** don't have a hard time waking up) remain outside of both loops.

Here's what the data looks like now:



Add color to further represent meaning

Color adds another layer of visual detail and meaning to your plot. Choose any field in your plot to use as a basis for coloring. Colors are assigned to your icons based on the values in the field you select.

- On the **Toolbar**, click the **Color by Field** button  and select **Gender**.


At the top of the plot, a legend shows how colors have been assigned to the values.

Gender:  M  F

The icons of the boys are yellow; the icons of the girls are purple.

Increase text size for elements in Plot View


Use the Text Size control button in the Toolbar to increase the size of the text in notes and for elements in your plot. Increasing the text size is especially useful when you are working in a group around a computer monitor or when using a projector.

1. On the **Toolbar**, click the **Text Size** button .
2. Experiment with each of the three text size settings provided to see which one works best for your plot.

Create a Stack plot

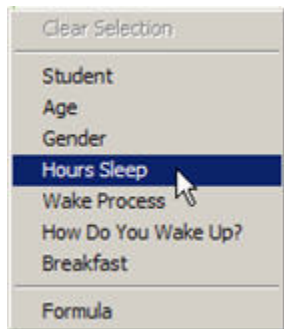
A Stack plot divides the values within one field into categories, then organizes the icons that fall into each category into stacks. The more records in a category, the higher the stack.

Stack plots are useful for showing how many records share a particular characteristic.

1. On the **Toolbar**, click the **Stack Plot** button .

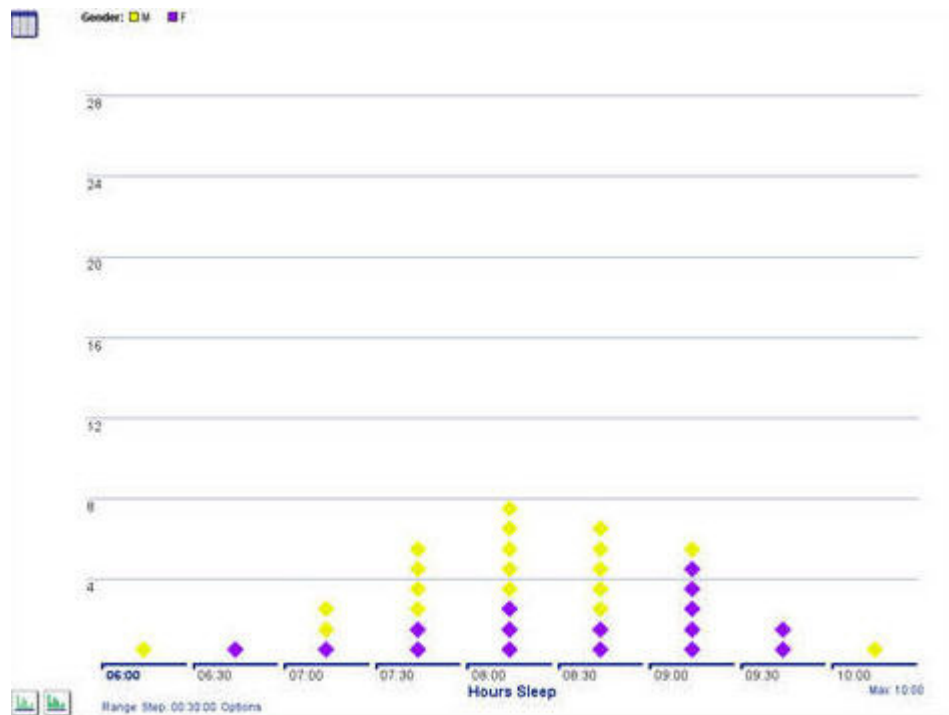
When you first switch to Stack plot mode, the icons are arranged into one tall stack. Once you assign a field to the axis, the icons will move into separate stacks based on their values.

2. On the workspace, click the **Axis label** of the X axis and select **Hours Sleep**.




Use the numbers on the left side of the plot to help count the icons in each stack.

Here's what the data looks like now.





Switch to Bar chart

You may switch to a Bar chart by clicking the Bar chart button  in the lower left-hand corner of the workspace.

Create a parallel Stack plot

You can divide your Stack plot using different characteristics. To see the relationship between the length of time a student sleeps and the wake process, for example, you could use a parallel Stack plot.

1. On the lower-left corner of the workspace, click the **Plot Options** button , then select the **horizontal parallel stack** option .

A Y axis appears on the left side of your stack plot.

2. Click the **Y Axis** label and select **Wake Process**.



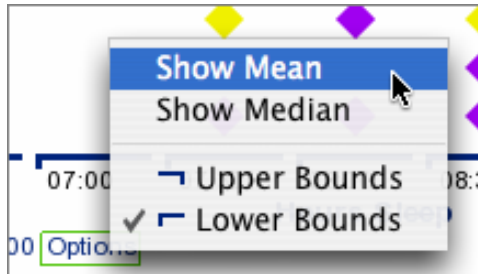
The pattern shows that the fewer hours a student sleeps, the harder it is to wake up.

Since the icons representing male students are now yellow and the icons representing female students are purple, we can quickly see that boys find it harder to wake up after getting fewer hours of sleep than girls do.

Show the mean for each level

Now that you have two distinct ranges of data you can display the average or mean which, in this case, would be the average or mean hours of sleep for each group.

- Click the **Options** button next to the X axis near the lower-left side of the workspace, then select **Show Mean**.



Create an Axis plot

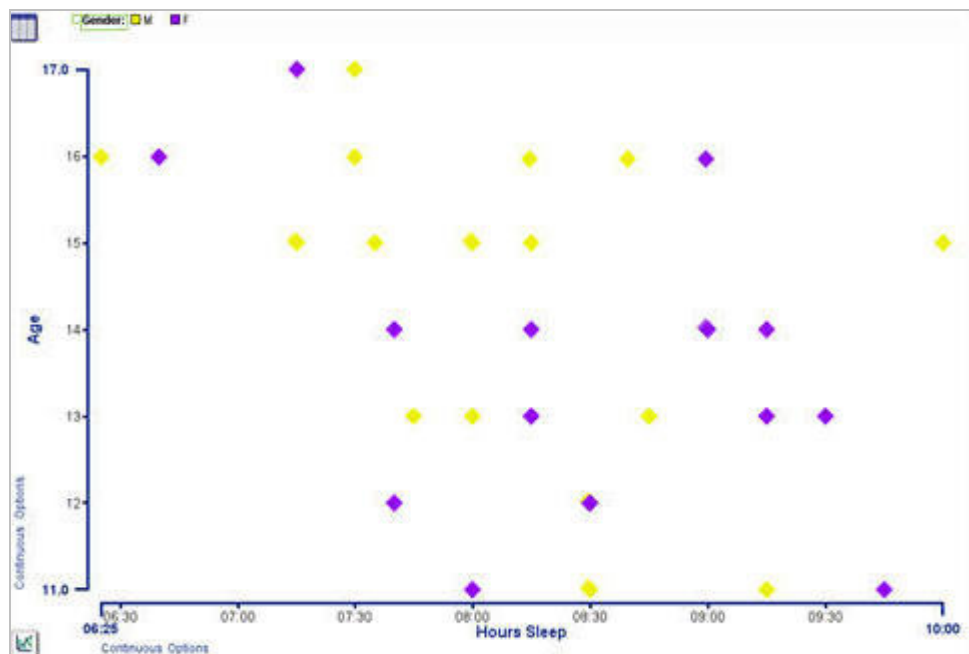
Axis plots let you create scatterplots, which are a great way to find and investigate correlations. For example, you could see if there was a relationship between amount of sleep and age.

- On the **Toolbar**, click the **Axis Plot** button

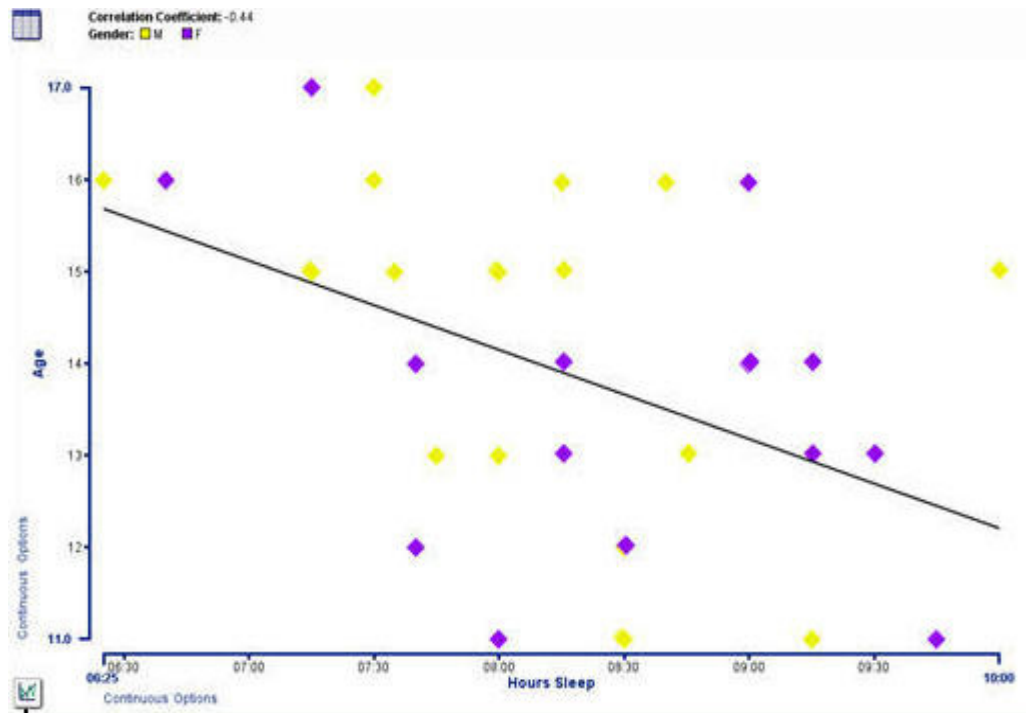
The icons won't move until you assign fields to the X and Y axes.

- Click the **X Axis** label and select **Hours Sleep**.
- Click the **Y Axis** label and select **Age**.

The plot shows that older students tend to get less sleep than younger students.



When you create an Axis plot where both axes are numeric and continuous data, you can display the Line of Best Fit, as shown below, or a Line Graph. To do either one, click the button in the lower left corner of the workspace.




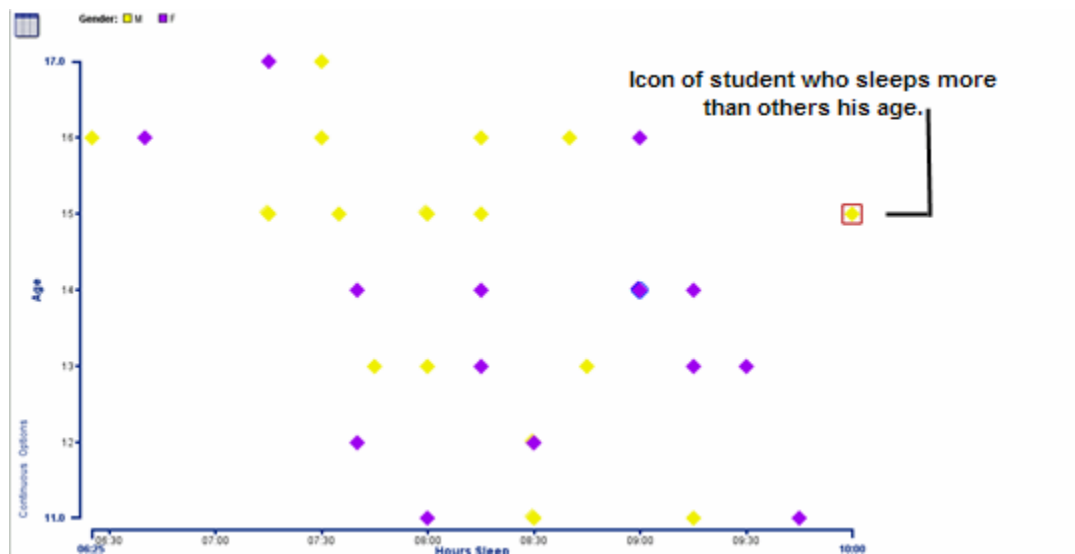
Click to display Line of Best Fit or
Line Graph

Mark items of interest

Some icons might have the highest or lowest values for a particular field or seem to defy the general trend. You can mark these icons and track them through your plots.

For example, in this plot you can see that one student gets a lot of sleep compared to others his age.

1. Click on the icon of the student who seems to get more sleep than others in his age group.
2. On the **Toolbar**, click the **Mark** button .

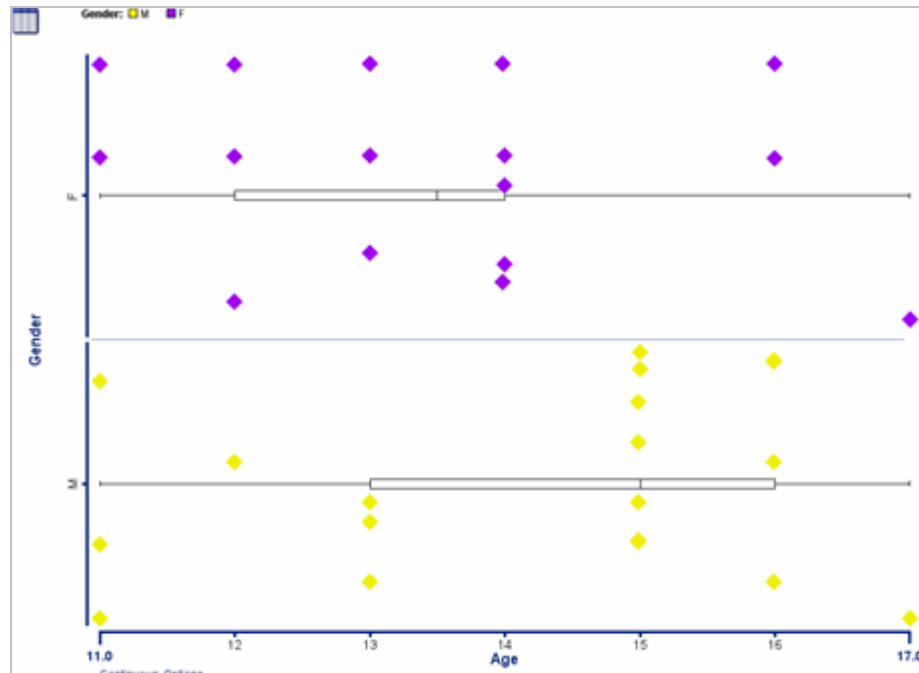


Since the icon is now marked with a box, you can easily identify and track it as you make changes to the plot.

Multiple box plots can be used to show differences in a numeric field across a second categorical (Text or True/False) field. In this example, you could examine differences in age across gender.

- Click on the **Y axis** and select **Gender** from the list of fields.

Now your plot looks like this:



Although both males and females fall in the same range of ages, the plot shows that the males in the middle half are older than the females in the middle half.

Applying the IQR method to a box plot

IQR, or “Interquartile range” is an alternative method for drawing the whiskers of a Box plot. Rather than extending out to the extremes of the data, the whiskers have a length that is proportional to—usually one and one half times—the interquartile range. (The interquartile range is the difference between the upper and lower quartiles.)

To apply the IQR method to a box plot:

1. On the **Plot** menu, choose **Box Plot Options...**
2. Choose the **IQR** radio button.
3. If desired, change the multiplier by typing in the text box next to the IQR radio button.
4. Click **OK**.

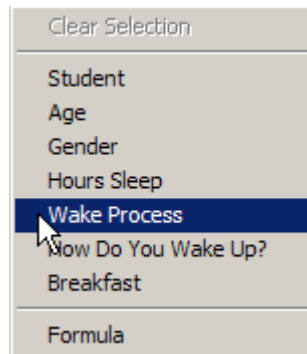
Create a Pie plot

Pie plots show how many records in your table share a common attribute. The pie's sections are determined by the values in the field you assign to the pie, and the icons fall accordingly into these sections. The higher the number of records in a section, the larger the pie section is.

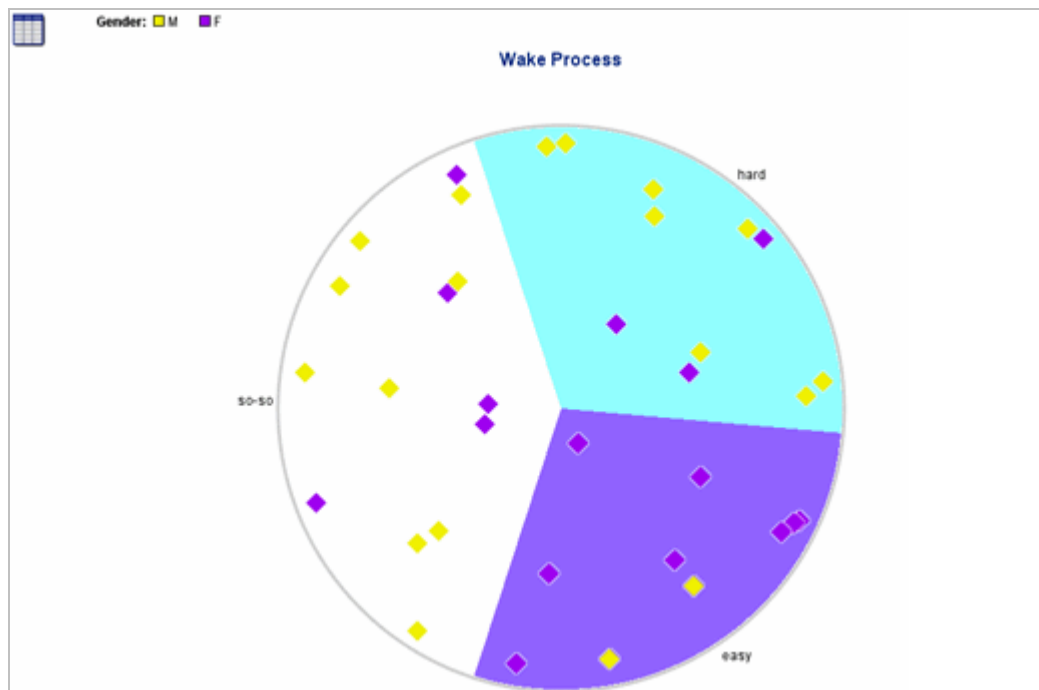
1. On the **Toolbar**, click the **Pie Plot** button .

There aren't any sections because you haven't assigned a field to the pie yet.

2. Click the **Select Field** button above the circle, then select **Wake Process**.





The plot is now divided into sections. The icons are rearranged. Here's what your data looks like now.



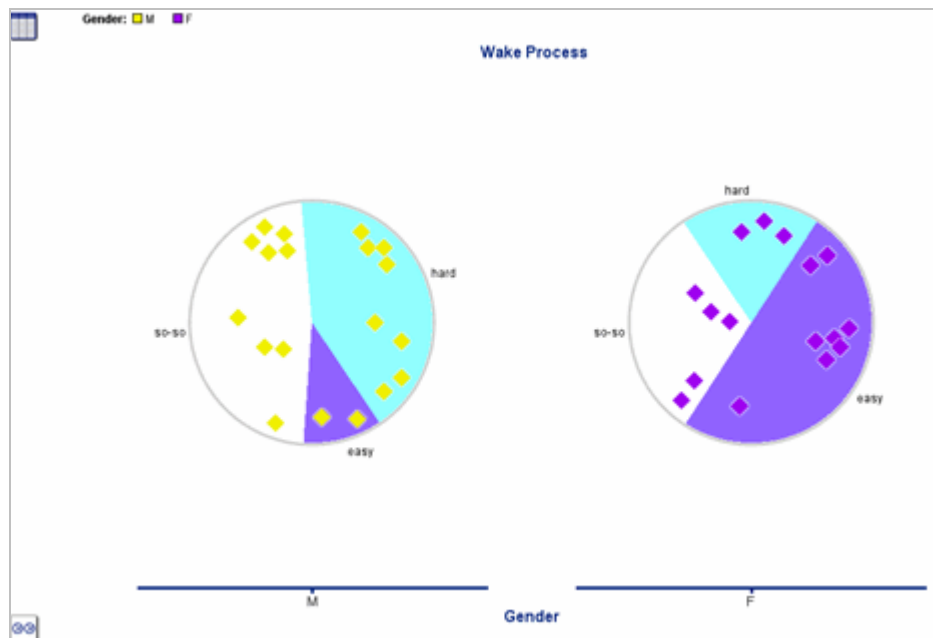
Subdivide a Pie plot

You can split your icons into multiple pies, which you can compare side-by-side. For example, if you wanted to see if there was a significant difference between males and females regarding ease in waking up, you could move the males into one pie and the females in another.

1. On the lower-left corner of the workspace, click the **Plot Options** button , then select the **multiple horizontal pies** option .

An X axis appears beneath the pie.

2. Click the **X Axis** label and select **Gender**.



There is an appreciable difference in ease in waking up between males and females. A higher percentage of boys report that waking up is hard for them.

Save a document

Save your document on a regular basis. To save a document for the first time, or to save a document you've already saved using the current file name, use the Save command.

1. On the **File** menu, choose **Save**.
2. If necessary, navigate to the folder in which you want to save the document.
3. Click the **Save** button.

You'll open this document again in Lesson 3. You can give it a name, such as *My Sleep Survey*, in order to find it easily.

Note: All InspireData documents are automatically saved with an .IDF extension.

Lesson Two: Working in Table View

In Table View, you can directly enter data you have collected, import data that you acquire from outside sources like web sites, and have students enter their own data through the use of surveys. Once you have captured the data, you can modify the formatting and even create new data using formulas.

Working in Table View, you'll learn to do the following:

- Create a new database
- Rename a field
- Add a new field
- Add a new record
- Define fields
- Validate data entered into fields
- Enter record details
- Reorder fields
- Change the default icon
- Import a custom icon
- Create a Survey
- Conduct a Survey
- Create an e-Survey
- Publish an e-Survey
- Take an e-Survey
- End an e-Survey
- View e-Survey results
- View the e-Survey Log

Create a new database

In this lesson, you'll create your own simple sleep survey database.

1. If you quit InspireData after the last lesson, launch the program.
2. From the **InspireData Starter** screen, click **New**.

InspireData will open in Table View.


Rename a field

When you create a new table, you will see that fields are named **Field 1**, **Field 2**, and so on. You can rename the fields.

1. Click on **Field 1** and type **Student**.
2. Click on **Field 2** and type **Age**.
3. Click on **Field 3** and type **Gender**.

Add a new field

New tables start with three fields, but you can always add more if you need to.

1. On the **Toolbar**, click the **Add Field** button .
2. Type **Hours Sleep** to name the new field.
3. Add another new field and name it **Wake Process**.

Add a new record

More records can be created quickly and easily.

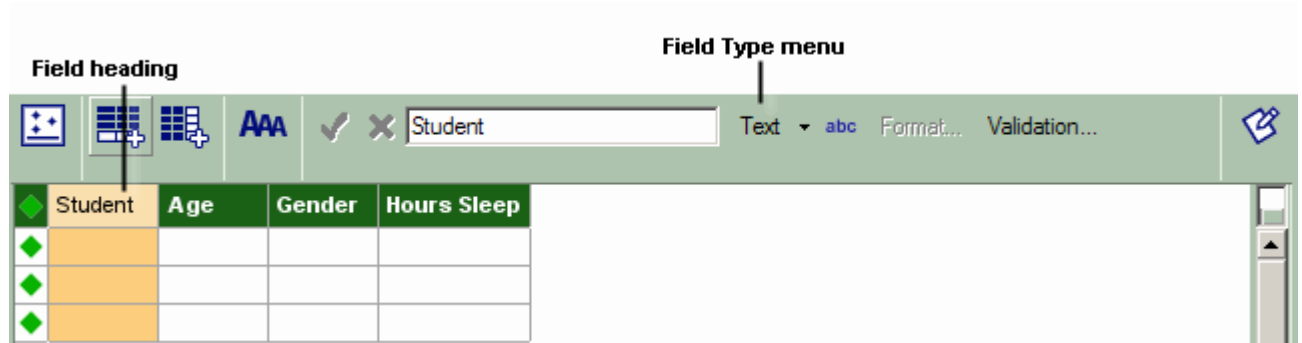
- To create a new record, click the **Add Record** button  on the **Toolbar**
-or-

With your cursor in the last cell of the bottom row, press **Tab**.


Define fields

Choosing the kind of data you will put into a field allows you to enter data more quickly. Fields can be restricted to numbers only, text and numbers, dates or true/false values.

The type of data used for a field is called the field type.



1. Select the field named **Student** by clicking on its field heading.
2. On the **Toolbar**, click the **Field Type** menu **Undefined** and select **Text**.
3. Select the next field, **Age**, by clicking on its field heading.
4. On the **Toolbar**, click the **Field Type** menu and select **Number**.
5. Select the next field, **Gender**, by clicking on its field heading.
6. On the **Toolbar**, click the **Field Type** menu. Select **Text** because this is also a text field.
7. Select the next field, **Hours Sleep**, by clicking on its field heading.
8. On the **Toolbar**, click the **Field Type** menu and select **Number**.

Add the following fields by using the **Add field** button  and continue to select the field type for each one of them:

- **How Do You Wake Up?** (Field type: Text)
- **Breakfast** (Field type: Text)

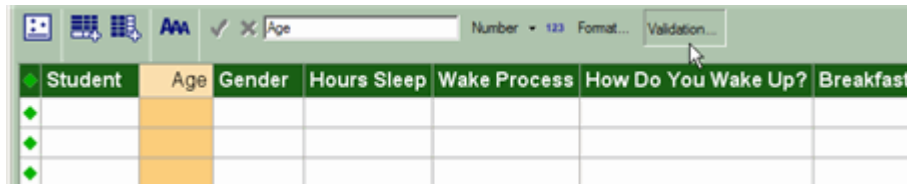
Now any data you enter into these fields will be consistent with the field types you selected.

Note: You can edit cell data in either the text entry field on the toolbar or in the cell itself. If you make a mistake while entering text, just select the words you want to change by dragging your cursor over them and then typing your correction.

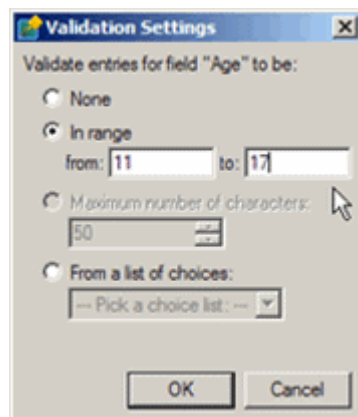
Validate data entered into fields

You can control the data entered into fields using Validation settings. For example, you can use the Validation option to create a drop-down list of choices, allow numbers only within a certain range or specify the number of characters allowed for a field, as well as other validation choices. You could, for example, limit the age range for people in the sleep survey to secondary students only.

1. Click on the field heading for **Age**.



2. Click on the Validation...button.
3. A dialog box will appear. Click the radio button next to **In range**.
4. In the **from** field, type **11**, and in the **to** field, type **17**, then click **OK**.



Now your Age field will accept only numbers between 11 and 17.

Enter record details

Now that your table is set up, you can start entering data.


1. Click in the top left data cell to select it (it will turn orange when selected). Type **A** as an identifier for the first student.
2. Press **Tab** to move to the next cell. Type **14** under Age.
3. Tab to the **Gender** field. Type **F**.
4. Tab to the **Hours Sleep** field. Type **9**.

- Continue to add sample data to the remaining fields and records, using the table below as a guide.

◆	Student	Age	Gender	Hours Sleep	Wake Process	How Do You Wake Up?	Breakfast
◆	A	14	F	9	easy	naturally	medium
◆	B	12	F	7	easy	naturally	small
◆	C	15	M	6	so-so	person	small

Increase text size for elements in Table View


You can increase the size of the text in cells and the notes field, as well as field names, using the text size control in the top toolbar. This is especially useful when you are working in a group around a computer monitor or when using a projector.

- On the **Toolbar**, click the **Text Size** button .
- Choose which of the three sizes works best to view the table.

Reorder fields

To change the order of the fields in your table click on their field headers and drag them.

- Click on the field heading of the **Age** field, then drag it to the right of the **Gender** field.

Watch the carat mark  as you drag so you can place the field where you want it. Simply release the mouse button to place it.

◆	Student	Age	Gender	Age	Hours Sleep
◆	A	14	F		09:00
◆	B	12	F		08:30
◆	C	15	M		08:00

Change the default icon

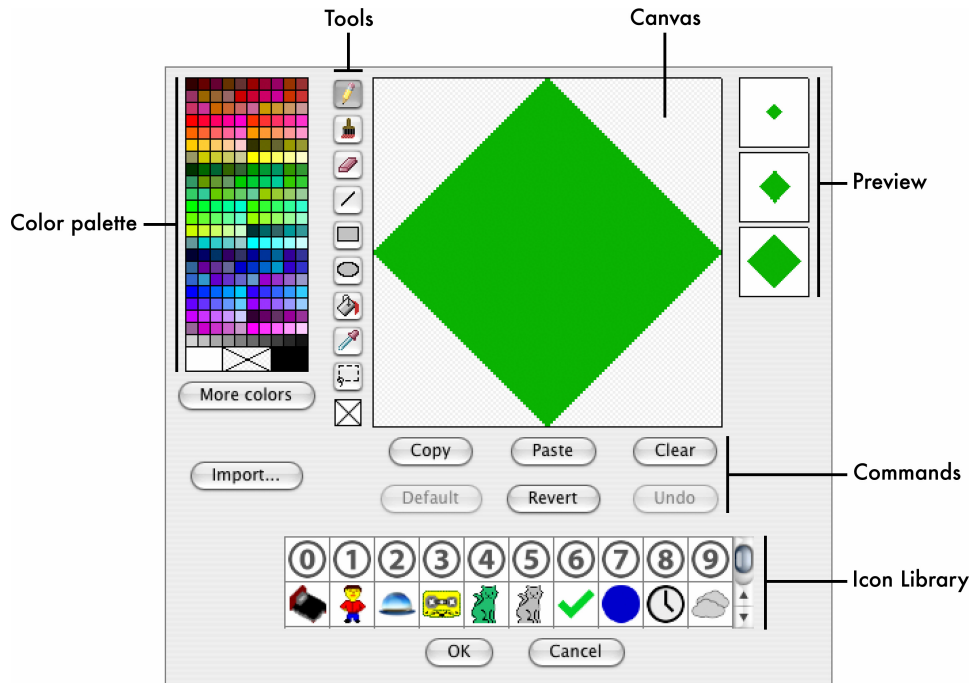
Changing or customizing the icons that appear in your table adds further meaning to your plots. InspireData offers a library of more than 120 icons. Icons selected in Table View will also represent each record when it appears in Plot View.

Default Icon		◆	Student	
Record Icons		◆	A	
		◆	B	
		◆	C	
		◆	D	

To change the default icon to a custom icon:

- Double-click the icon in the top-left corner of the table (the default icon).

The Icon Editor appears:



2. Select a different icon from the **Icon Library** or use the paint and draw tools in the Icon Editor to customize your selection.

3. Click **OK** to make the new icon your default icon for the entire table.

All of the existing records with the old default icon will be updated, and all new records will use the new default icon.

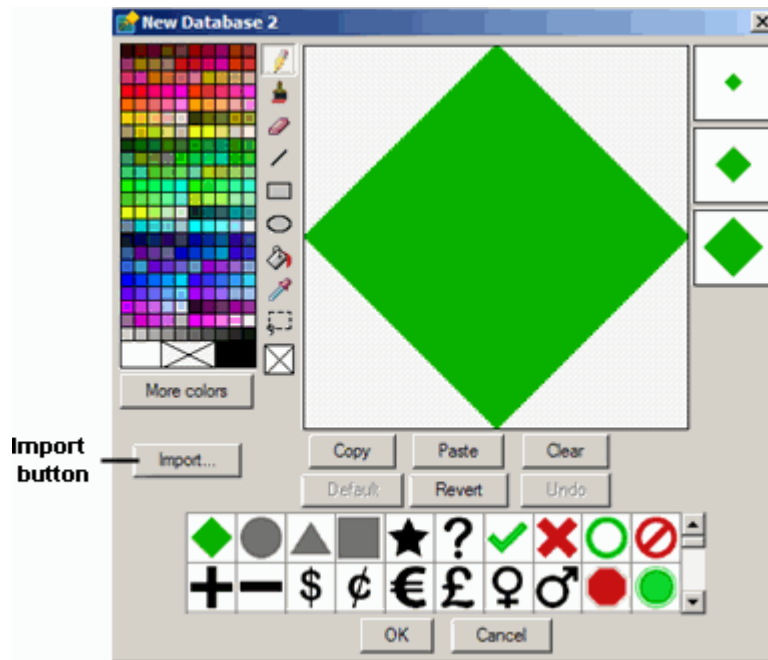
Note: If you want to return to the original version of the icon, click **Revert**.

Import a custom icon

You can import a photograph or graphic from a drawing program or web browser and use it as an icon. Imported graphics are automatically resized to fit into the space available on the canvas of the Icon Editor.

To add a custom icon to Student A:

1. Double-click on **Student A's icon** to open the **Icon Editor**.
2. Click the **Import** button.



3. Locate and click on the file you want to import. InspireData can import most types of image files, including .GIF and .JPG.
4. Click the **Open** button.
5. Click **OK** on the **Icon Editor**.

Note: Use the Icon Editor tools to further customize an imported image.

Create a Survey

A Survey allows you to create new records and enter data for those records using an onscreen form, similar to one you might find on a web page. Using the sleep survey as an example, students can answer the questions you have set up for your fields.

The Survey is especially useful when you have a group of people who aren't familiar with InspireData. With a Survey, they can enter data directly into your document.

You can set up a computer as a Survey station and let students take turns filling out the form. When a Survey is completed, its data is added as a record to your database.

1. On the **Table** menu, select **Edit Survey**.
2. Click the **Use custom title** checkbox.

3. Type **Student Sleep Survey** into the title box.
4. If you want the respondents to have the ability to add their own individual icon, click the **Allow user to select record icons** checkbox.
5. The **Question** area of the form is automatically filled out with the field names. If the field name is sufficient for the respondent to answer the question, use the field name. If not, enter a complete question to guide participants in their responses. InspireData allows you to use up to 256 characters for a question.
6. Locate the questions you'd like to make required, then click the **Required?** checkbox.

When a question is set as required, the words "This value is required" will appear below the question in the Survey. Respondents will not be able to submit their record until this field is filled out.

7. Click **OK**.

Include?	Field	Type	Required?	Question
<input checked="" type="checkbox"/>	Student	Text	<input checked="" type="checkbox"/>	What is your student code letter?
<input checked="" type="checkbox"/>	Gender	Text	<input checked="" type="checkbox"/>	Gender
<input checked="" type="checkbox"/>	Age	Number	<input type="checkbox"/>	Age
<input checked="" type="checkbox"/>	Hours Sleep	Number	<input checked="" type="checkbox"/>	How many hours do you sleep on an average night?
<input checked="" type="checkbox"/>	Wake Process	Text	<input checked="" type="checkbox"/>	What is your wake process (easy, hard, so-so)?
<input checked="" type="checkbox"/>	How Do You Wake Up?	Text	<input checked="" type="checkbox"/>	How do you wake up in the morning--Alarm? Person? Naturally?
<input checked="" type="checkbox"/>	Breakfast	Text	<input checked="" type="checkbox"/>	What size breakfast do you eat?


Be sure to launch your survey after you have finished editing it to make sure it appears the way you want it to appear.

Note: The Invitation text applies to e-Surveys only.

Launch a Survey

Once you have your Survey set up the way you like, you can start collecting data.

1. On the **Table** menu, choose **Launch Survey**.

2. Ask your participants to come to the computer one at a time.
3. Instruct each participant to fill out the form and click the **Add Record** button  when they are finished.
4. After all of the participants have entered their data, click the **Close** button.
5. On the **File** menu, choose **Save** to save your data.

Create an e-Survey

An e-Survey allows you to collect data by publishing your database to a web site. Respondents need not be in the same location and are able to add responses to your e-Survey as long as they have a connection to the Internet. It is not necessary to have InspireData installed in order to fill out an e-Survey.

Once responses are complete, you can download your database to InspireData and begin analyzing data.

To create an e-Survey:

1. On the **Table** menu, choose **Edit Survey**.

- Click the **Invitation text** check box at the top of the dialog box.

Edit survey prompts for Student Sleep Survey:

☒ Allow user to select record icons

☒ Use custom title: Student Sleep Survey

☒ Invitation text: Be sure to fill out my e-Survey on sleep habits for our class!

Include?	Field	Type	Required?	Question
<input checked="" type="checkbox"/>	Student	Text	<input checked="" type="checkbox"/>	What is your student code letter?
<input checked="" type="checkbox"/>	Gender	Text	<input checked="" type="checkbox"/>	Gender
<input checked="" type="checkbox"/>	Age	Number	<input type="checkbox"/>	Age
<input checked="" type="checkbox"/>	Hours Sleep	Number	<input checked="" type="checkbox"/>	How many hours do you sleep on an average night?
<input checked="" type="checkbox"/>	Wake Process	Text	<input checked="" type="checkbox"/>	What is your wake process (easy, hard, so-so)?
<input checked="" type="checkbox"/>	How Do You Wake Up?	Text	<input checked="" type="checkbox"/>	How do you wake up in the morning--Alarm? Person? Naturally?
<input checked="" type="checkbox"/>	Breakfast	Text	<input checked="" type="checkbox"/>	What size breakfast do you eat?

OK Cancel

- Type an invitation to participate in your e-Survey, such as, "Be sure to fill out my e-Survey on sleep habits for our class!"

When your e-Survey has been published to the web and accessed by respondents, the wording you type here will be visible at the top of the web page.

- Make any modifications to your questions or required answers, as needed.
- Click **OK**.

Publish an e-Survey

Once your e-Survey has been published, it will be available as a form to fill out on a web site. e-Survey respondents will need to know the web URL and the Survey ID to take your survey. Respondents simply use their web browser to load and fill out the e-Survey.

To publish an e-Survey:

- From the **Table** menu, choose **Publish e-Survey**.
- When the dialog box appears, click the **Publish** button.

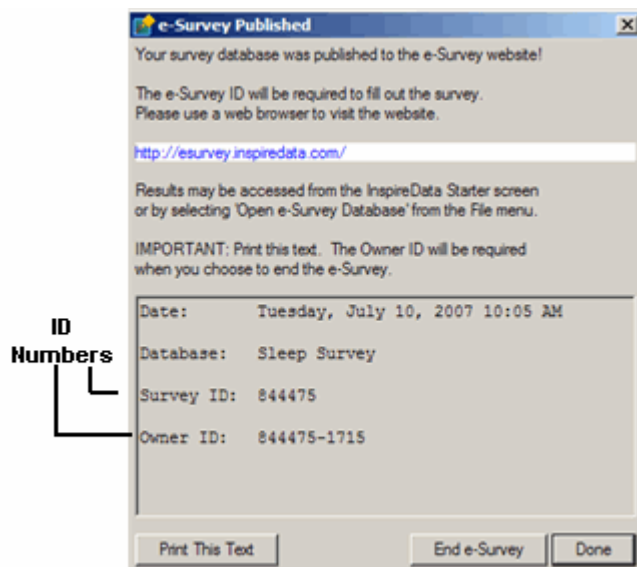
Publish e-Survey

Publishing your survey will upload this survey database to the e-Survey website.

The survey can be filled out with a web browser. You must give people the e-Survey ID for them to take the survey. You may view the results by opening the e-Survey database using InspireData.

Edit Survey Cancel Publish

When the second dialog box appears, as shown below, you will see both a Survey ID and an Owner ID for your e-Survey:



Those who participate in your e-Survey will need the Survey ID.

To end your e-Survey you must know the Owner ID.

Since this is the only location where the Owner ID is given to you, it is a good idea to print this dialog. To print it, click on the **Print This Text** button at the bottom of the dialog.

You may also end your e-Survey directly from this dialog by choosing the **End e-Survey** button.

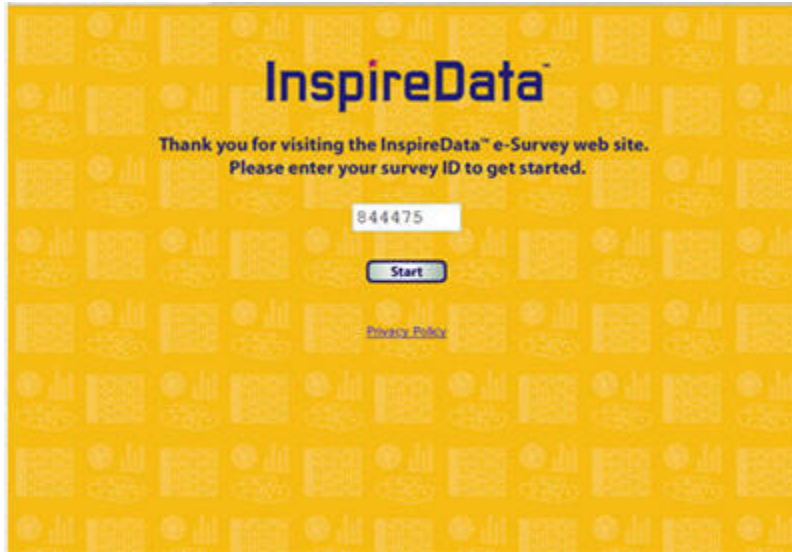
3. Click **Done**.

Take an e-Survey

To take an e-Survey you must have access to the Internet.

To take an e-Survey:

- Navigate to **<http://esurvey.inspiredata.com>** using your web browser, then enter your **Survey ID** and click **Start**.



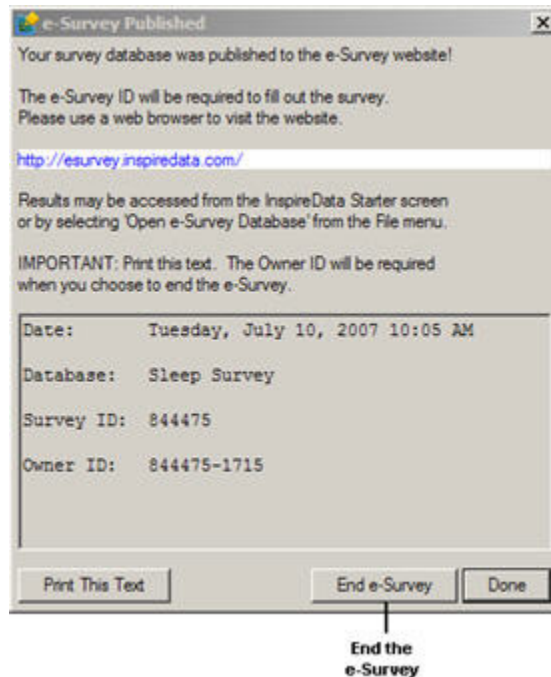
When you click start, your e-Survey opens, as shown:

Once you have filled out the survey, click **Submit** to save the data. All participants who fill out the e-Survey and click Submit will have their records added to your database.

To print your e-Survey, see Printing a Survey or e-Survey in the *User's Manual*.

End an e-Survey

You can end an e-Survey immediately after it is created by clicking **End e-Survey** in the same dialog you use to create one, as shown:

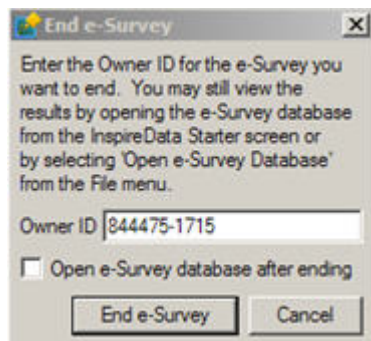


If you end it before data has been entered, no entry will appear in the e-Survey log.

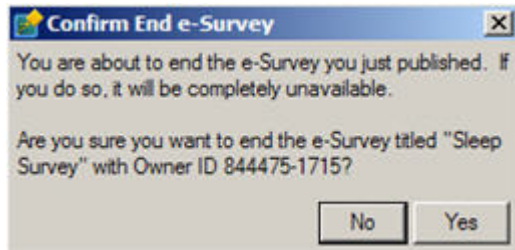
If you have received all the data you need and want to stop accepting contributions to your e-Survey, you must end it from the File menu.

To end an e-Survey:

1. From the **File** menu, choose **End e-Survey...**
2. Enter the Owner ID for the e-Survey you want to end (you were provided with the Owner ID when you originally set up your e-Survey).



3. Click on the **End e-Survey** button.
4. When asked to confirm, choose **Yes** to end the e-Survey.



After the survey has ended, no one will be able to add data to the e-Survey even if they know the Survey ID. However, the database will still be available to download from the InspireData Starter screen using the e-Survey button.

Note: e-Survey databases can still be downloaded even after the e-Survey has ended and will remain available for a period of time determined by Inspiration Software®.

View e-Survey results

The results of an e-Survey can be viewed at any time by opening the database with InspireData. Once data has been downloaded, it is contained in a new database, which can be modified in any way and saved. You can do this even when participants are still adding records to your e-Survey. Each time you or anyone else downloads the data, a new InspireData file is created. Plots and slides present in the database at the time it was published will also be available, in addition to e-Survey records.

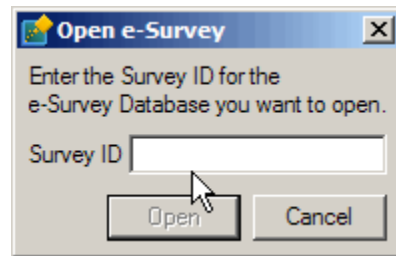
When you no longer want contributions to the database, you can end your e-Survey.

To view results of an e-Survey:

1. On the **InspireData Starter** screen, click on the **e-Survey** button.



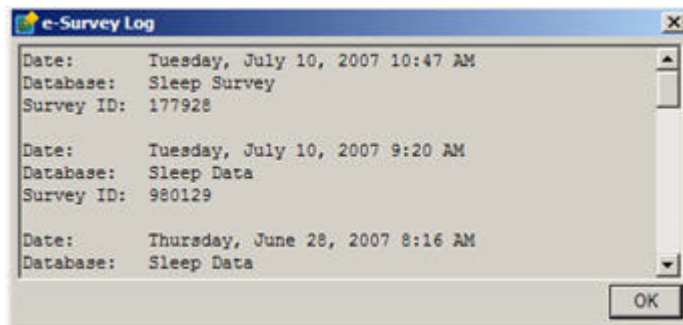
2. Enter the **Survey ID** and click **Open**.



View the e-Survey Log

Every time an e-Survey is published, it is recorded in the e-Survey log. This log is associated with the user currently logged on to the computer. The log contains the date the e-Survey was published, the database name and the Survey ID.

- From the File menu, choose **View e-Survey Log...**



The most recent surveys are listed first.

Lesson Three: Presenting with a Slide Show


A Slide Show is a great way to document and present work. Each slide captures a “live” view of the data, which means that you can continue to change and work with the captured plots when viewing your slides.

In this lesson, you will build a slide show as you learn to do these things:


- Capture a slide
- Name a slide
- Reorder a slide
- Add notes
- Make changes to a slide
- Delete a slide
- Present a Slide Show

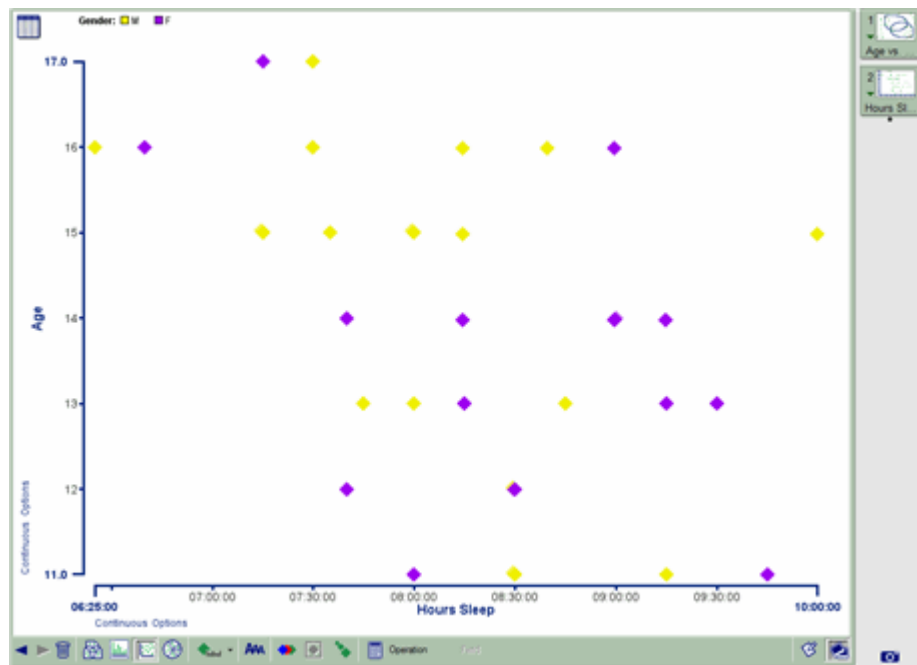
Capture a slide

When you capture a slide, you're saving a plot, which you can then retrieve at any time and use in a slide presentation of your data.

1. Open the *My Sleep Survey* document you saved in Lesson One. Your document should open in Plot View with the two pie charts displayed. If it does not, click the **Plot View** button on the **Toolbar** to switch to Plot View.
2. On the right side of the **Toolbar**, click the **Slide Sorter** button . The Slide Sorter will open on the right side of the screen.
3. On the **Toolbar**, click the **Venn Plot** button.

When you save a document, InspireData saves each plot mode's last state. When you switch to the Venn plot, the plot you created in Lesson One will be preserved.

4. Click the **Capture Slide** button  on the Slide Sorter. A new slide appears in the Slide Sorter.
5. On the **Toolbar**, click the **Axis Plot** button.
6. Click the **Capture Slide** button on the Slide Sorter. A second slide appears in the Slide Sorter.



Name a slide

InspireData automatically creates a name for new slides based on the fields you assigned to axes on the plot, but you can rename a slide at any time.

1. Click the **Slide Options** button ▼ on the second slide, then select **Rename** from the menu that appears.
2. Type **Hours of sleep vs. Age** into the text box that appears, then click **OK** to rename the slide.

Renaming a slide does not change the content or order of the slide in the Slide Sorter.


Reorder a slide

You can move slides up and down the Slide Sorter to change their order.

1. Click and drag the **Hours of Sleep** slide to the top of the Slide Sorter.
When you move a slide, the other slides will move to make room for the slide you are dragging, indicating where the moved slide will be placed.
2. Release the mouse button.

Add notes

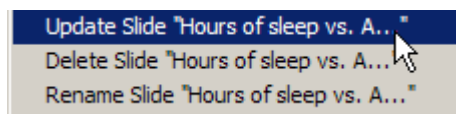
To capture thoughts about the data and communicate findings, use notes.


1. On the **Toolbar**, click the **Note** button .
The *Notes area* appears at the bottom of your screen.
2. Type your comments about the slide.

Make changes to a slide

You can update a slide at any time after the slide has been captured. Always update your slides after adding or editing a note; otherwise the changes you made will be lost.

- Click the **Slide Options** button on the *Hours of Sleep vs. Age* slide, then select **Update Slide** from the menu that appears.



Updating a slide will overwrite the old slide. If you want to keep both your old slide and the changes you've made, create a new slide by clicking the **Capture Slide** button  on the **Slide Sorter**.

Delete a slide

You can delete a slide at any time.

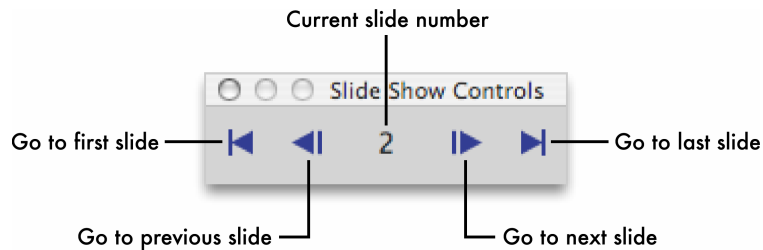
1. Click on the slide you want to delete.
2. Press the **Delete** key.

Present a Slide Show

Slides are saved with your work when you save your document. When you are ready to present your slides, use the Slide Show controls.

- On the **Slide Show** menu, choose **Start Slide Show**.

The first slide in the **Slide Sorter** displays the **Slide Show Controls**. If you click the **Next Slide** button, you will see the second slide on the controls, and so on for all of your slides.



You can also present your slide show by clicking on each slide in the Slide Sorter. However, using the Slide Show Controls keeps the Slide Sorter hidden and makes more screen space available for your plots.

Lesson Four: Plotting time series and more

In this lesson, you'll plot time series data and explore some of the many other plotting options available. You'll learn to:

- Plot time series data
- Add color to time series data
- Group time series data
- Change plot colors
- Clear a plot
- View previous plots
- Add a plot title
- Combine categories
- Compute summary data




Plot time series data

You can display and even animate data that changes over time (time series data).

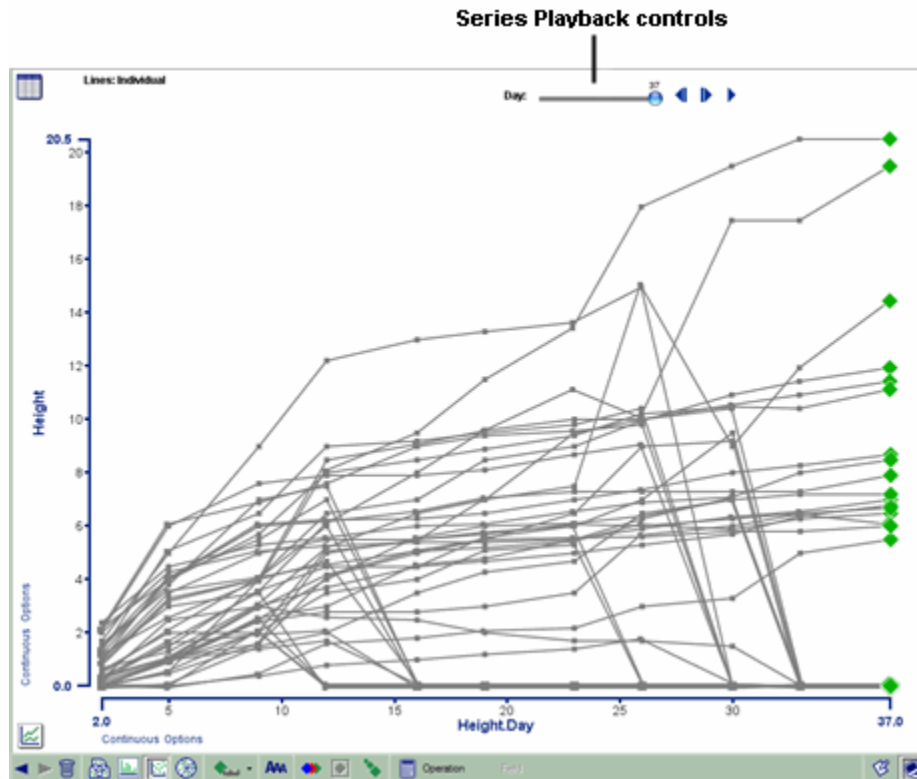
1. On the **File** menu, point to **Open Database**. Choose **Science**, then select **Plant Growth**.

The table contains data about plants in an experiment, including growing conditions, height measurements and so on. Notice that the **Height** field contains subcolumns representing the number of days elapsed in the experiment. Each subcolumn contains a measurement for a plant's height on that day. This is the data that will be used to plot your time series.

Class	Owner	Condition	Height												Number of Leaves on Day 23
			2	5	9	12	16	19	23	26	30	33	37		
Warberg	CE	Control	1.1	2.5	4	8	9.5	11.5	13.5	18	19.5	20.5	20.5	4	
Warberg	CE	Control	0.5	2	4	6.5	7	8.5	9	10	11	11.5	12	4	
Warberg	CE	Control	0.3	1.6	3.5	6	8	9.6	10	10	10.5	11	11.5	4	
Warberg	CE	Control	0	0.5	4	8.5	9	9.5	11.2	10	17.5	17.5	19.5	4	
Warberg	CE	Control	0	0.5	2	5	5.5	7	7.5	15	9	12	14.5	4	
Warberg	EG	24 Hours of	2.1	4	5.7	8	8.5	8.9	9.4	10.3	10.5	10.5	11.2	2	
Warberg	EG	24 Hours of	0.9	3.3	4	6	0	0	0	0	0	0	0	0	
Warberg	EG	24 Hours of	1.3	3.8	7	7.5	0	0	0	0	0	0	0	0	
Warham	FG	24 Hours of	1.5	4	6	6.2	6.3	6.5	7	7.3	8	8.3	8.7	2	

2. On the **Toolbar**, click the **Plot View** button  to switch to Plot View.
3. On the **Toolbar**, click the **Axis Plot** button .
4. On the lower-left corner of the workspace, click the **Plot Options** button  and select **Instant Plot: Height by Day**.

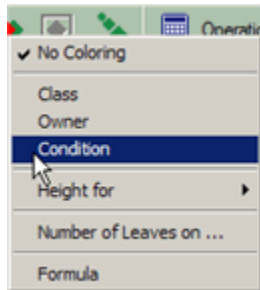
A new time series graph is created. The **Series Playback** controls animate the time graph, showing how the heights of the plants change over time and revealing correlations.



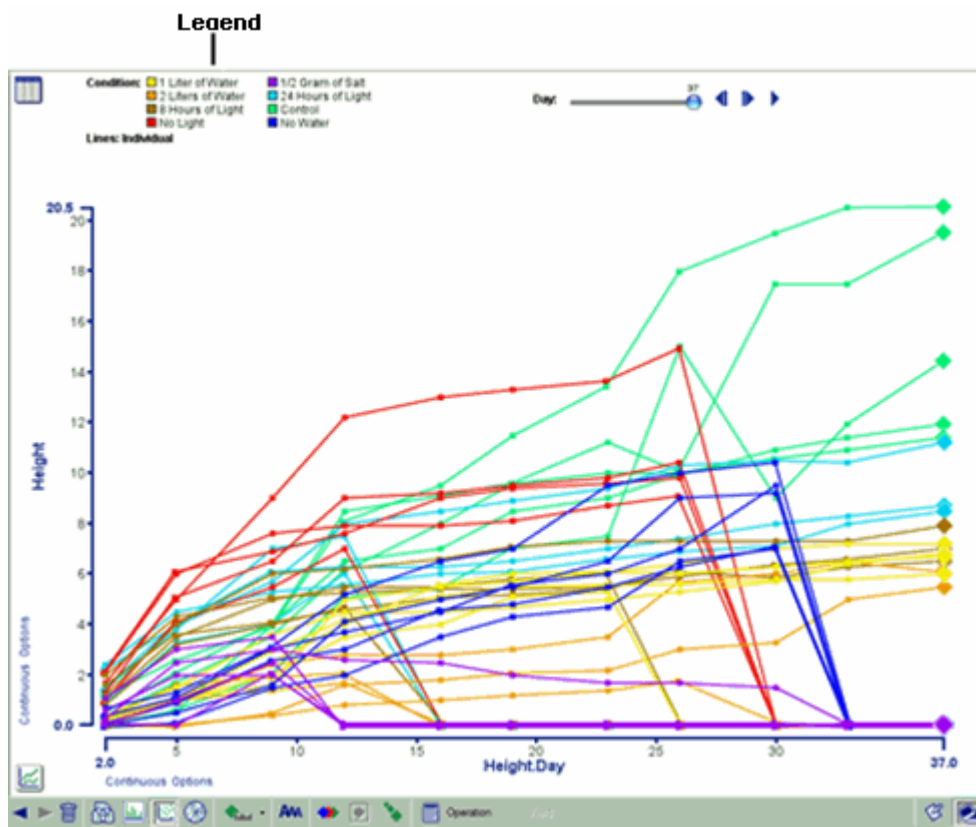
Add color to time series data

Because the plot you created shows all gray lines, it's difficult to see what the data means. However, you can add color to your plot.

- On the Toolbar, choose the **Color by field** button  and select **Condition**.




Now your plot looks like the one below. Notice that you now have a legend at the top that defines the colors in the plot.

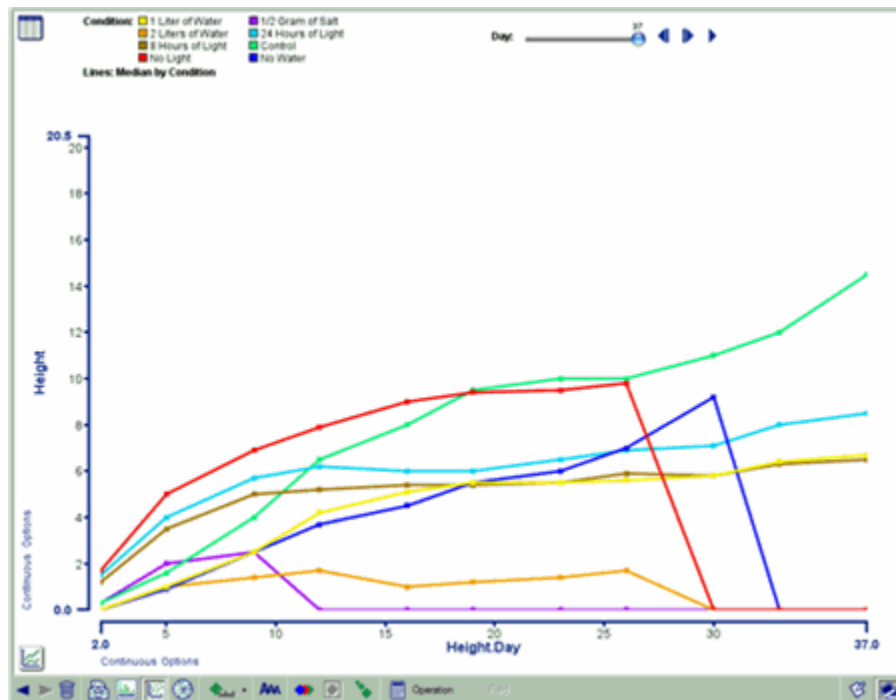


Group time series data

Time series graphs display every record individually by default, but you can also group the records together to make trends in the data easier to see. For example, you can group together records based on growing conditions.

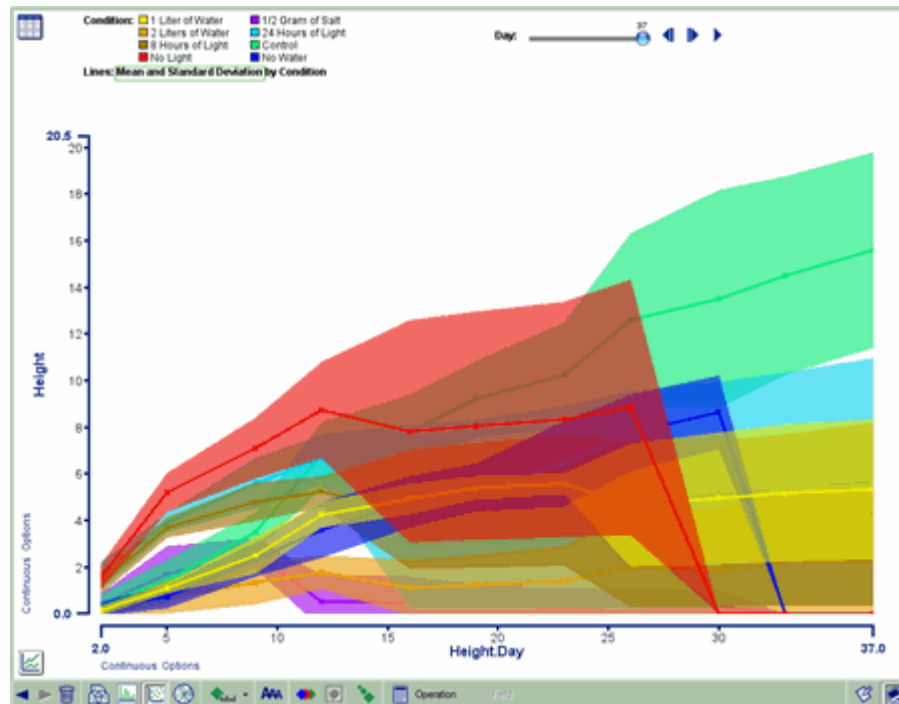
1. On the lower-left corner of the workspace, click the **Plot Options** button , choose **Group Lines**, and then select **Median**.

Now, instead of every record being shown, eight lines represent the median values of the plants in each of the eight growing conditions.



2. Click the **Plot Options** button again, choose **Group Lines**, then select **Mean and Standard Deviation**.

This adds areas of translucent shading to the group lines, representing the standard deviation for the plants in each of the growing conditions.



Change plot colors

Customizing the colors used to represent your data helps you clearly differentiate one set of records or lines from another.

In the current plot, each grouping is colored according to its growing condition. InspireData makes it easy to change the colors of these items.

1. On the **Legend**, click the **red square** to the left of *No Light*.

A menu with color choices appears.



2. Select a new color to change the color of the grouping on the plot.

Clear a plot

When you clear a plot, only the plot currently displayed on your screen is affected.



- On the **Toolbar**, click the **Clear** button .

The menu you see will give you options to change your settings:

- *Clear this Plot* maintains the plot type but clears the settings, such as axis title, etc. (To clear color, click on **Color by field** and select **No Coloring**.)
- *Reset plotting* returns the icons to a Free plot.
- *Unmark All* takes away labels, colors and the marks around icons you have selected.


View previous plots

You can jump backward or forward through your plots at any time, just like you would with previously viewed pages in a web browser.

- On the **Toolbar**, click the **Back** button  to view your previously created plots, and click the **Forward** button  to return to the most recently created plot

Add a plot title

You can add a title to your plot at any time.

1. On the **Plot** menu, select **Plot Title**.
2. Type **Growth Comparison by Treatment Condition**.
3. Click the **Accept** button  to add the title to your plot.

To make changes to an existing title, click directly on the title in your plot and type your changes. Be sure to click the Accept button to keep your changes.

Combine categories

You might want to group your data by combining two related categories into one. For example, you can combine the two growing conditions with varying amounts of water into one supercategory called *1 or More Liters of Water*.

1. Click on the **Axis label** of the X axis and choose **Condition**.
2. Click on the Y axis and choose **Height**.
3. Click the **2 Liters of Water** category label and drag it onto the **1 Liter of Water** category label.

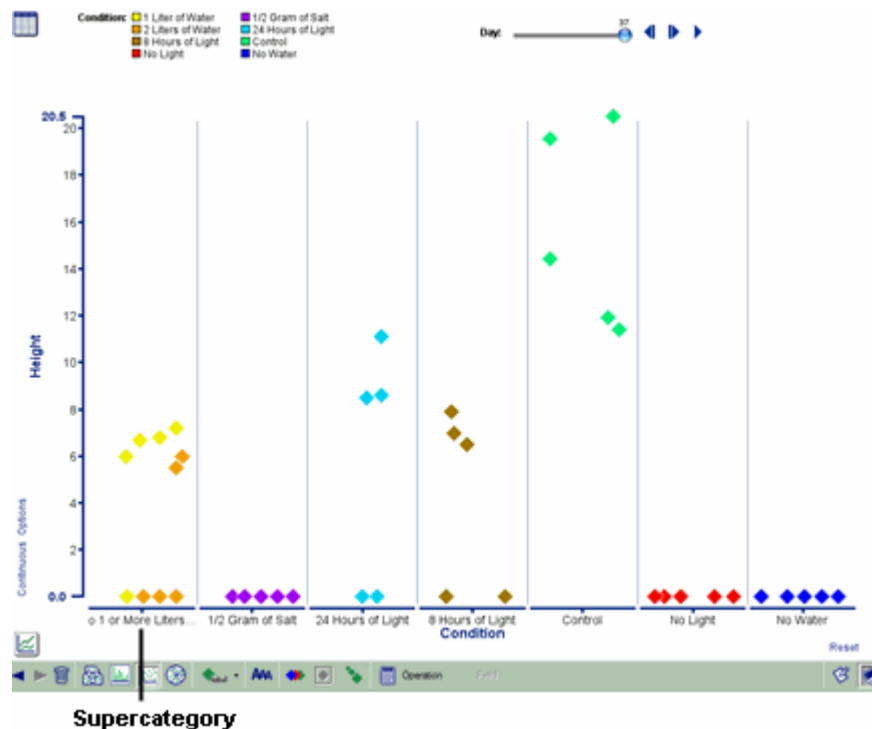


When a green box appears around the **1 Liter of Water** label, release the mouse button.

Use the dialog box to give a name to your supercategory, such as *1 or More Liters of Water*.

4. Click **OK**.

The 2 Liters of Water and 1 Liter of Water categories have now been combined into a supercategory.



You can easily return the plot to the way it looked before you created the supercategory.

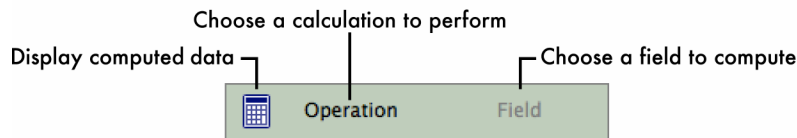
1. Click the small diamond \diamond next to the **1 or More Liters of Water** category label.
2. Choose **Dissolve Supercategory**.

Compute summary data

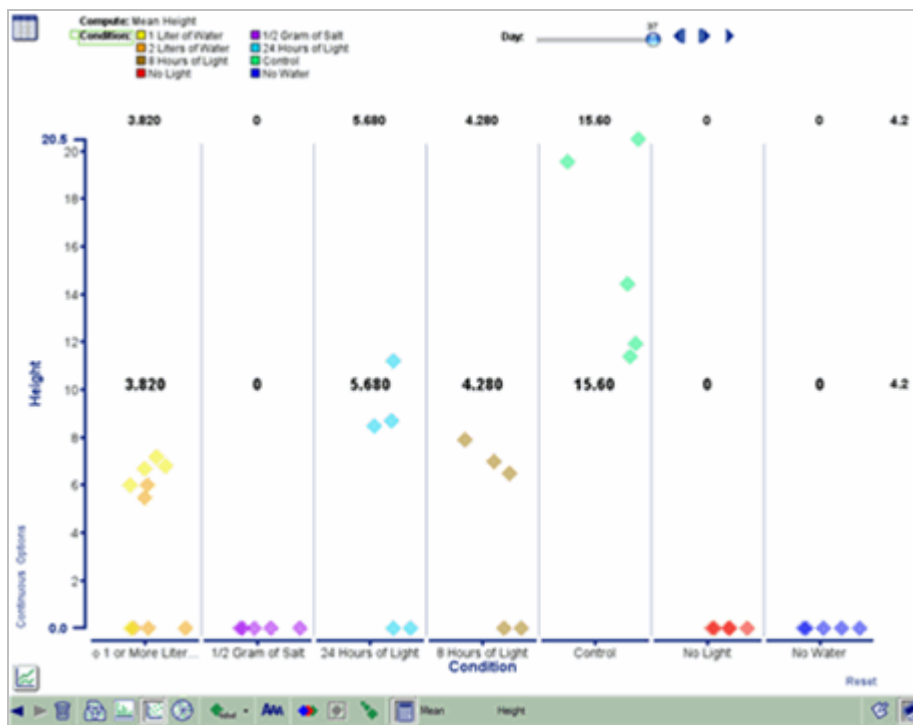
You can calculate summary data for your plots, including count, total, mean, median and smallest or largest data points. For example, in the plant growth plot you could calculate the mean height for each growing condition.

1. On the **Toolbar**, click the **Compute** button to turn on computations.

The question marks (??) that appear on your plot show where the calculations will be displayed when you finish specifying what data you want to calculate.



2. Click the **Operation** button on the **Toolbar**, then select **Mean**.
3. To specify which field to calculate the mean of, click the **Field** button on the **Toolbar**, then select **Height**.



Because this plot includes time series data, you can use the series playback controls to display the height of the plants on different days. As you move through the different days, computations will be updated automatically.

Congratulations!

You've finished the InspireData tutorial. Now that you know the basics of this versatile tool, you're ready to explore further on your own.