



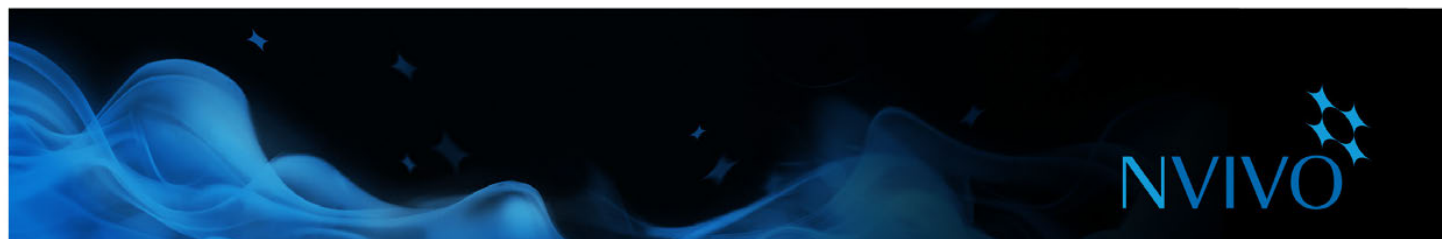
NVivo 11 Pro for Windows



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How to use this guide

This guide will help you to get up and running with NVivo 11 Pro for Windows. It provides step-by-step procedures for fundamental tasks, and suggests ideas and techniques to help you move forward with your project.

Hints, tips and techniques are displayed in these panels.

If you want to share your own tips and techniques — join us on the [QSR Forum](#)

ideas

For more information about working with NVivo refer to:

- [NVivo Help](#)—click the **File** tab, then click **Help** and then click **NVivo Help**.
- The QSR website (www.qsrinternational.com)—access video tutorials, the QSR forum, FAQs, training and support.
- The [NVivo blog](#) covering issues, trends and best practice in qualitative and mixed methods research.
- The NVivo Users Group on [LinkedIn](#) or follow the QSR [Facebook page](#) or [@QSRint](#) on Twitter.

NVivo and qualitative research

Many qualitative researchers are interested in evaluating, interpreting and explaining social phenomena. They analyze data from interviews, surveys, field notes, web pages and journal articles—and they work in a range of sectors; from social science and education to healthcare and business.

Support for your chosen methodology

NVivo doesn't favor a particular methodology. It is designed to facilitate common qualitative techniques for organizing, analyzing and sharing data—no matter what method you use.

Researchers usually adopt a qualitative methodology to suit their research question. For example, a social scientist wanting to develop new concepts or hypotheses may take a 'grounded theory' approach. A health researcher looking for ways to improve policy or program design might use 'evaluation methods'.



Understanding NVivo editions

There are three editions of NVivo for Windows software: NVivo Starter, NVivo Pro and NVivo Plus. Each edition features a different level of functionality to support a range of projects and research needs.

This guide describes **NVivo Pro**—a sophisticated research tool with everything you need for analyzing all forms of unstructured data.

With advanced queries and advanced visualization tools, you can discover themes, justify your findings and report your work.

In NVivo Pro you can:

- Work with text, audio, video, images, spreadsheets, online surveys, social media and web content.
- Use powerful querying tools.
- Create project and concept maps to show associations in your data.
- Use NCapture to quickly and easily capture social media content for analysis.

You can open any NVivo 11 for Windows project in any of the editions, and you can upgrade to a different edition at any time.

Visit the [QSR Website](#) for a detailed comparison of the features available in each edition.

NVivo key terms

As you work through this guide you'll be introduced to a number of key concepts but here are some basic terms to get you started:

- **Sources** are your research materials including documents, PDFs, datasets, audio, video, pictures, memos and framework matrices.
- **Source classifications** let you record information about your sources—for example, bibliographical data.
- **Coding** is the process of gathering material by topic, theme or case. For example, selecting a paragraph about water quality and coding it at the theme node 'water quality'.
- **Nodes** are containers for your coding that represent themes, topics or other concepts—they let you gather related material in one place so that you can look for emerging patterns and ideas.
- **Cases** are containers for your coding that represent your 'units of observation'—for example, people, places, organizations or artifacts.
- **Case classifications** allow to you record information about cases—for example, demographic data about people.



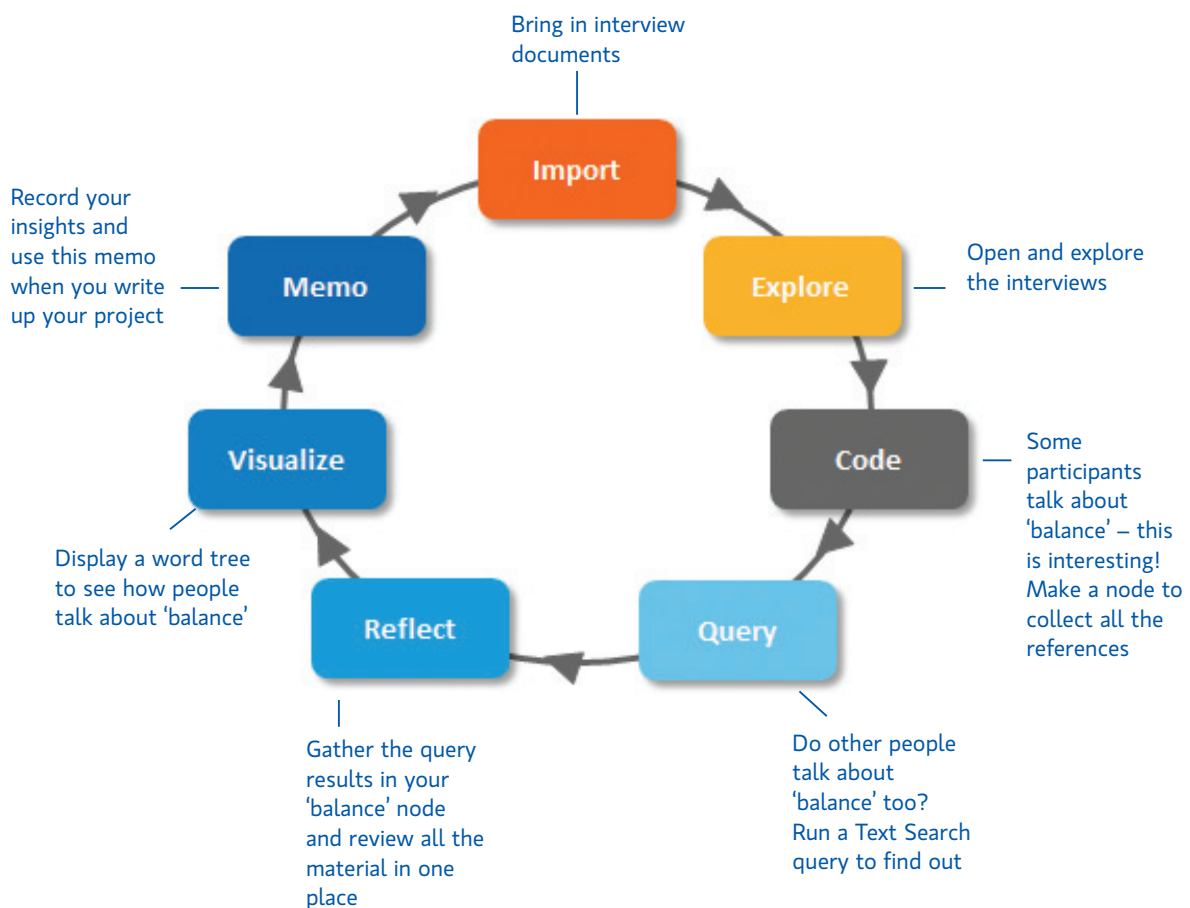
Explore the sample project

If you prefer 'hands on' learning you may like to explore and work with the NVivo sample project—Environmental Change Down East. This is a 'real-world' project that illustrates the main features of the product. You can use the sample data to experiment with queries, visualizations and other analysis tools.

You can access the sample project from the NVivo Start screen.

How do I approach my research project?

There is no agreed 'industry standard' or prescribed process for approaching a qualitative project but there are some recognized strategies and steps you can take—you'll find some suggestions as you work through this guide. It can help to understand that qualitative research is an iterative process—for example, this picture shows a path you might take when exploring a particular theme:



Remember that NVivo can help you to manage, explore and find patterns in your data but it cannot replace your analytical expertise.



Install and activate NVivo for Windows

Before installing, make sure that your computer meets the hardware and software requirements.

Supported Operating Systems

- Microsoft Windows 10 (32-bit and 64-bit)
- Microsoft Windows 8 (32-bit and 64-bit)
- Microsoft Windows 7 (32-bit and 64-bit)

System requirements

Minimum Requirements	Recommended
1.2 GHz single-core processor (32-bit), 1.4 GHz single-core processor (64-bit)	2.0 GHz dual-core processor or faster
2 GB RAM or more	4 GB RAM or more
1024 x 768 screen resolution	1680 x 1050 screen resolution or higher
Approximately 5 GB of available hard-disk space— or more depending on data storage needs	Approximately 8 GB of available hard-disk space— or more depending on data storage needs
	Internet connection
	Internet Explorer 11 or later, Google Chrome 44 or later

Additional requirements for NVivo add-ons

- For NCapture: Internet Explorer 10 or later, or Google Chrome 44 or later
- For the NVivo Add-In for OneNote: Microsoft OneNote (2007 or 2010) and Microsoft Word (2007 or 2010)



Install NVivo

You must have administrator permissions for the computer on which you are installing the software.

When you double-click the NVivo installer file—the installation process starts automatically. Follow the steps to:

- Install any prerequisite components. You may be asked to restart your machine—on restart the installation will continue automatically.
- Accept the NVivo license agreement.
- Confirm the location of NVivo program files and choose to include an NVivo icon on your desktop.
- Choose the supplementary add-ons that you want to install. NCapture is a browser extension that allows you to gather material from the web. The NVivo Add-In for OneNote allows you to bring your OneNote content into NVivo.

Note: If you work with audio and video files, you may need to install additional codecs—for more information, refer to the FAQs area of the [QSR website](#).

Start NVivo and activate your license

You need to activate your NVivo license—this is a simple and secure process that ensures valid licenses are used to operate the software.

If you are using a trial version of the software, you do not need to enter a license key, but you must activate the trial before you can use NVivo.

To start NVivo double-click the NVivo 11 icon on your desktop then follow the steps:

1. In the **Welcome to NVivo** dialog box, enter your license key (or select the option for a free trial and choose an edition), and then click **Next**.
2. In the **License Activation** dialog box, enter your details and click **Activate**—if you are connected to the Internet, you can activate immediately.
3. In the **User Profile** dialog box, enter the initials you want to use to identify your work in NVivo projects. This is especially useful if you are working in a team—refer to the [NVivo Help](#) for more information about teamwork in projects.

When you click **OK**, the NVivo Start screen is displayed.



The NVivo Start screen

This is the first screen you see when you start NVivo. From this screen, you can access projects and tap into online learning and community resources to help you get the most out of NVivo.



Create a new project

1. On the NVivo Start screen, click **Blank Project**.
2. Enter a name for this project and add a description.
3. Click the **Browse** button and choose a location to save your project (you can work locally or on a network). NVivo projects are saved as .nvp files.

If your organization has purchased NVivo Server, in the **Save as type** list, select NVivo Server Projects. Refer to the [NVivo Help](#) for more information.



The NVivo Workspace

The NVivo workspace provides easy access to all your project material.

See the contents of a folder in **List View**.
When you open items in a folder, they display in Detail View

Access Help

The **ribbon** helps you to locate all NVivo commands

Navigation View lets you organize your material into folders

The screenshot shows the NVivo workspace with the following components:

- Ribbon:** Located at the top, containing tabs for FILE, HOME, CREATE, DATA, ANALYZE, QUERY, EXPLORE, LAYOUT, VIEW, and MEDIA TOOLS. Each tab has various icons for commands.
- Navigation View:** Located on the left side, showing a tree structure of folders and items. The 'Sources' folder is expanded, showing 'Interviews' and 'Framework Matrices'.
- Detail View:** The main area on the right, showing the contents of the selected folder. It includes a table of interview items with columns for Name, Nodes, and References. Below the table is a video player showing an interview with Betty and Paul.
- Status Bar:** Located at the bottom, showing project statistics: 14 Items, 15 Nodes, 49 References, and a Read-Only status.

Check the **Status bar** to see what is happening in your project

Work with your sources, nodes or other project items in **Detail View**.
Undock to work with your content in a separate window

11



Working with the ribbon

Commands are organized into logical groups on the ribbon, collected together under tabs. Each tab relates to a type of activity, such as creating new project items or analyzing your source materials.

The File tab for managing projects, printing and setting application options

Quick Access Toolbar - customize the commands to suit the way you work

Tabs for accessing commands related to an activity

Commands are organized in groups

Hover over a command to see a description

Navigation View

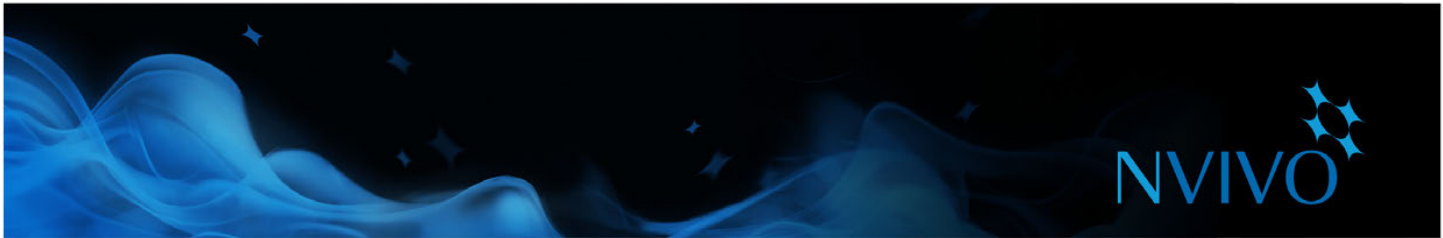
Navigation View helps you to organize and easily access all of the items in NVivo:

Right-click to add folders to organize your research materials

Drag the handle down to make more room

Click a button to see all the folders in the group

Click to see folders for all project items



List View

When you select a folder in Navigation View, its contents are displayed in List View. In this view, you can add new items, open existing items and edit item properties. This List View displays the contents of a folder:

Double-click an item to open it

Drag the boundary to resize columns

Sort the list by clicking on column headings

See the assigned color

Interviews									
Name	Nodes	References	Created On	Created By	Modified On	Modified	Classificati		
Barbara	41	186	27/05/2010 9:03 PM	WWS	6/05/2015 10:56 AM	WWS	Interview		
Betty and Paul	15	49	27/05/2010 1:49 PM	WWS	6/05/2015 10:55 AM	WWS	Interview		
Charles	32	134	27/05/2010 9:03 PM	WWS	6/05/2015 10:56 AM	WWS	Interview		
Helen	16	59	17/04/2010 12:59 PM	WWS	6/05/2015 10:55 AM	WWS	Interview		
Ken	19	57	27/05/2010 1:36 PM	WWS	6/05/2015 10:54 AM	WWS	Interview		

Right-click on items to access a shortcut menu

Display an optional column for classification

Detail View

When you open an item from List View the content is displayed in Detail View. This is an example of an interview opened in Detail View:

Open multiple items and move through them using tabs

Right-click a tab to undock Detail View and work in a separate window

Click to switch to edit-mode

Barbara

Jobs and cost of living

Interview Participants

Q.1. Connection to Down East

Henry

Tell me about your personal and family history in Down East. How long have you or your family been living Down East full time or part time?

Barbara

My family moved here when I was two years old in 1969. My parents still live here. They live down in Gloucester. But I was raised in Beaufort, in town, and went to Beaufort Elementary and middle school and high school, then moved away for college. So I've lived here most of my life although I've moved away.

Henry

And you've lived Down East how long?

Barbara

Since '96. My husband and I bought this little cottage in '96.

Customize your workspace

You can arrange the workspace to suit the way you like to work. For example, you can minimize the ribbon or use the options on the **View** tab to:

- Hide Navigation View to make more room (ALT+F1).
- Show, hide or re-order the columns displayed in List View.
- Display Detail View on the bottom of the screen—this is particularly useful when working with queries.
- Undock Detail View into a separate window.

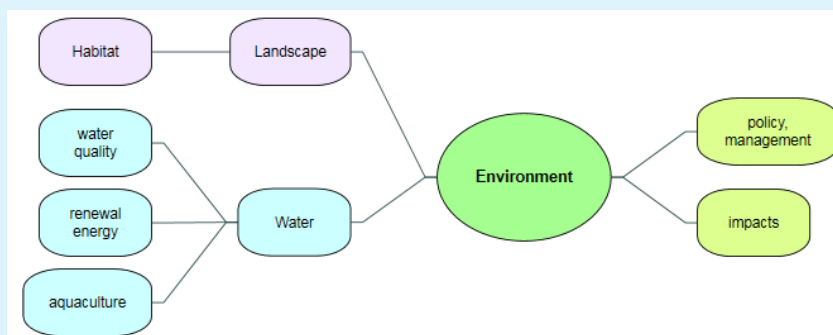
Refer to the [NVivo Help](#) for detailed instructions.

Early steps

ideas

Before you import your source material or get started with coding, you could take some time to:

- **Prepare for auto coding**—if you have consistently structured sources like focus groups or interviews (that ask the same set of questions), you can apply paragraph styles to facilitate auto coding in NVivo. Refer to the [NVivo Help](#) for more information about how to do this.
- **Create a memo (journal)** and state your research questions and record your goals. Why are you doing the project? What is it about? What do you expect to find and why? What biases do you bring to the project? Update the journal regularly to stay focused and to show the evolution of your project.
- **Make a mind map** to brainstorm your initial ideas, starting point and any assumptions.
- **Make a concept map** to show the relationships or patterns you expect to find in your data based on prior experience or preliminary reading—copy and paste it into your journal.

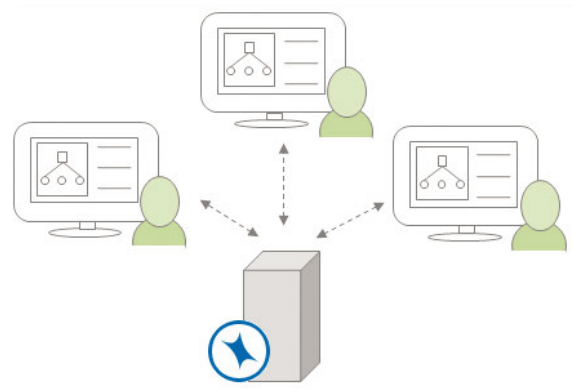


- **Make a concept map** to show the relationships or patterns you expect to find in your data based on prior experience or preliminary reading—copy and paste it into your journal.

Sharing projects in a team

Many projects involve multiple researchers working together—NVivo provides two ways to approach collaboration:

- Share projects using NVivo Server 11—everyone in your team can work on the same project at the same time. They can code, annotate and link source content and have immediate access to the changes made by other team members.



You can work on standalone projects or connect to NVivo Server to access server projects

- Work in copies of a project and merge them into a master project at appropriate intervals—making use of user profiles to track changes. You can find out more about this in the [NVivo Help](#).

Team members can work on the same project using different editions of the NVivo software (NVivo Starter, NVivo Pro and NVivo Plus)—but some editions do not support all of the features and project items available in other editions. Any NVivo 11 for Windows project can be opened in any edition, however some project items cannot be accessed.

If your team is using NVivo Starter, at least one member of the team needs NVivo Pro or NVivo Plus to be able to merge projects.

Preparing for teamwork

Whether you work with NVivo Server or collaborate in a standalone project you might want to consider the following:

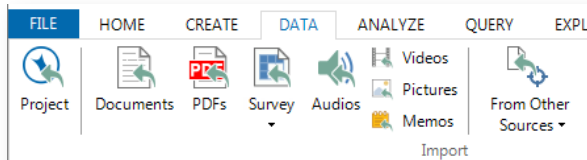
- Appoint a team leader who will keep the team on track and make final coding decisions.
- Have regular team meetings to discuss interpretations, address issues and assign tasks—record the outcomes in a memo.
- Have each team member keep a memo to record their progress, including any hunches, suggestions or questions—you could also do this in a single ‘teamwork journal’.
- Early on, have multiple team members code the same collection of sources, then compare coding (using coding stripes or a coding comparison query)—this can help ensure a consistent approach.
- To start with, make a thematic node hierarchy for each team member. After team discussion, you can refine, merge and reorganize.
- Aim for a clear thematic node structure and use descriptions (in node properties) to make the purpose of theme and case nodes clear for all team members.



Bring your material into NVivo

Sources are the materials that you want to analyze in NVivo—they can include articles, interviews, survey results, audio/video recordings, pictures, web pages or social media content.

To import sources, use the options on the **Data** tab:

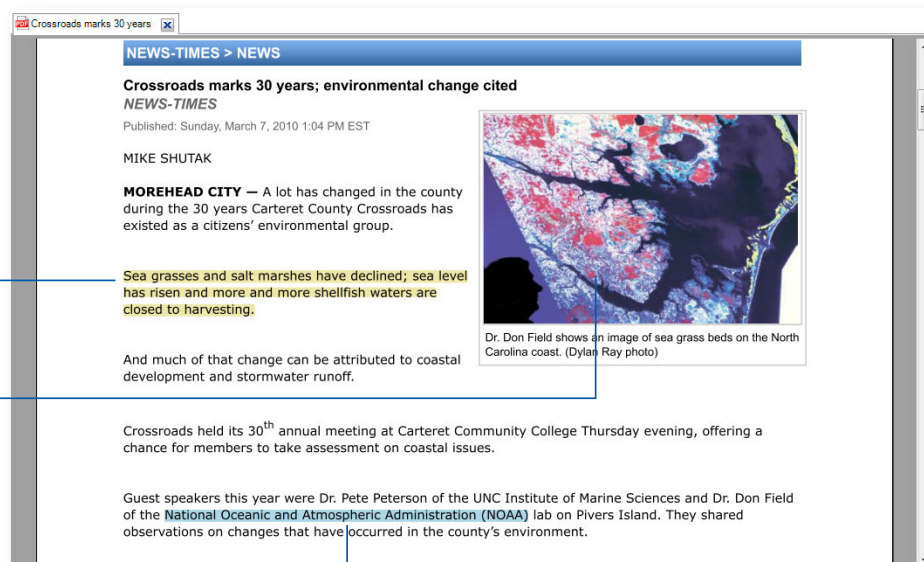


Interviews, articles and other documents

You can import interviews, journal articles, reports and any other Word documents or PDFs:

Select text, such as this paragraph, and code the text at a node

In PDFs you can also select regions of the page, like this image, and code the region at a node



Add annotations or 'see also' links to selected text (or to selected regions of the page)

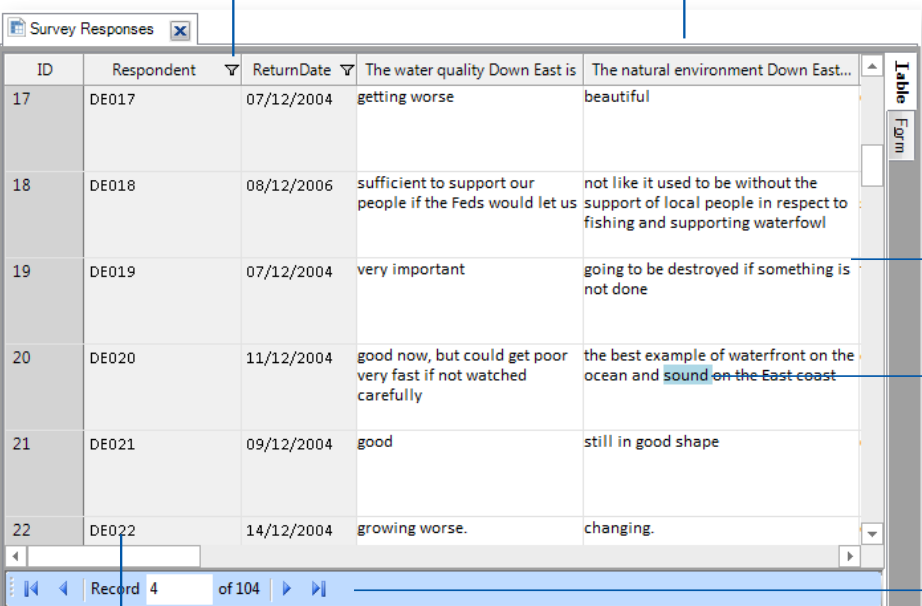
Survey results and other datasets

A dataset contains structured data arranged in records (rows) and fields (columns)—for example, a dataset could contain the responses to a survey.

You can create a new dataset source in NVivo by:

- Importing data from a spreadsheet, text file or database table.
- Importing an NCapture file that contains social media data.
- Connecting to SurveyMonkey and bringing in your survey results.

You cannot edit the contents of a dataset once it is imported. Before importing spreadsheets, text files or database tables, you should prepare your data and consider how you want to use it in NVivo—refer to the [NVivo Help](#) for detailed instructions.



The screenshot shows the 'Survey Responses' dataset in NVivo. The window displays a table with columns: ID, Respondent, ReturnDate, The water quality Down East is, and The natural environment Down East... The table contains records 17 through 22. Annotations point to various features:

- Apply filters to see a subset of the data:** Points to the filter icon (downward arrow) next to the 'Respondent' column header.
- Select a 'codable' column and gather the contents in a node:** Points to the 'The natural environment Down East...' column header.
- View the dataset as a table or see each record in a form:** Points to the 'Table' and 'Form' toggle buttons on the right side of the window.
- Select content and code it at a theme node:** Points to a text entry in the 'The natural environment Down East...' column: 'the best example of waterfront on the ocean and sound on the East coast'.
- Add annotations or 'see also' links:** Points to the 'sound on the East coast' text within the same cell.
- Navigate through the records:** Points to the navigation bar at the bottom showing 'Record 4 of 104'.
- Automatically create case nodes to represent the respondents:** Points to the 'Respondent' column header.

ID	Respondent	ReturnDate	The water quality Down East is	The natural environment Down East...
17	DE017	07/12/2004	getting worse	beautiful
18	DE018	08/12/2006	sufficient to support our people if the Feds would let us	not like it used to be without the support of local people in respect to fishing and supporting waterfowl
19	DE019	07/12/2004	very important	going to be destroyed if something is not done
20	DE020	11/12/2004	good now, but could get poor very fast if not watched carefully	the best example of waterfront on the ocean and sound on the East coast
21	DE021	09/12/2004	good	still in good shape
22	DE022	14/12/2004	growing worse.	changing.



Audio and video

You can import audio and video in a wide range of formats—refer to the [NVivo Help](#) for a detailed list. You can play and analyze an audio or video source in Detail View:

Code directly on the timeline

Add 'see also' links and annotations to the timeline or to the transcript

A transcript is optional—you can transcribe in NVivo, import a transcript from Word or purchase a transcript from within NVivo

Work with imported videos or videos from YouTube

Select content and code it at a node

When recording audio or video it's a good idea to reduce background noise, have one person speak at a time and place the microphone in a good position.

Before you import audio or video material, consider any editing requirements. For example, if you have hours of video footage, you may want to edit it down to a manageable size—you cannot do this editing in NVivo. When you import media files you can choose to store them inside or outside your project—if you have many large videos, we recommend you store them outside the project so that software performance is not compromised.

Create your own transcripts

You can transcribe your media files in NVivo. In 'transcribe mode', you can play and pause the media—transcribing as you listen and NVivo will automatically add new rows and timestamps. To support this process, you can also use a foot pedal and keyboard shortcuts.

If you have already transcribed the material in a Word document or text file (with correctly formatted timestamps) you can import the transcript into the audio or video source.

When it's time to code the material, you can code the media directly (on the timeline) or you can code the transcript.

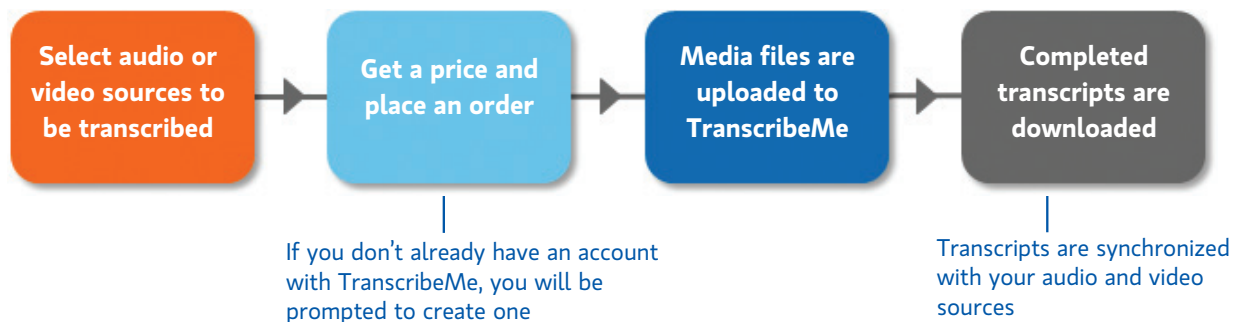
Refer to the [NVivo Help](#) for more information about creating transcripts.

Get your materials transcribed

Creating your own transcripts may bring you closer to your data but it can also be labor intensive and time consuming. Instead, you can have your media files professionally transcribed using TranscribeMe—an integrated transcription service that offers:

- Fast turnaround times
- Security and confidentiality
- Competitive transcription rates
- High quality, accurate transcripts in an 'NVivo-ready' format
- Automatic and seamless download of transcripts into your NVivo project

You can order and purchase transcripts without leaving the NVivo application:

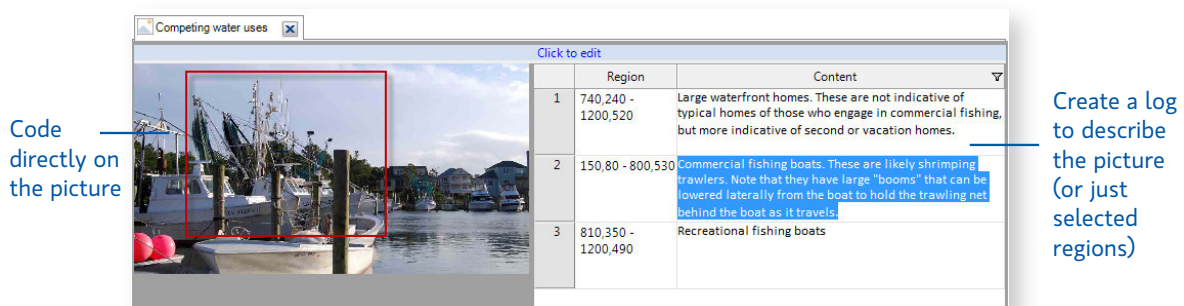


TranscribeMe provide transcriptions in a variety of languages—you can check the available languages at the time you place your order.

Photos and other images

You can import photos or other images and analyze them in NVivo—refer to the [NVivo Help](#) for a detailed list of supported image formats.

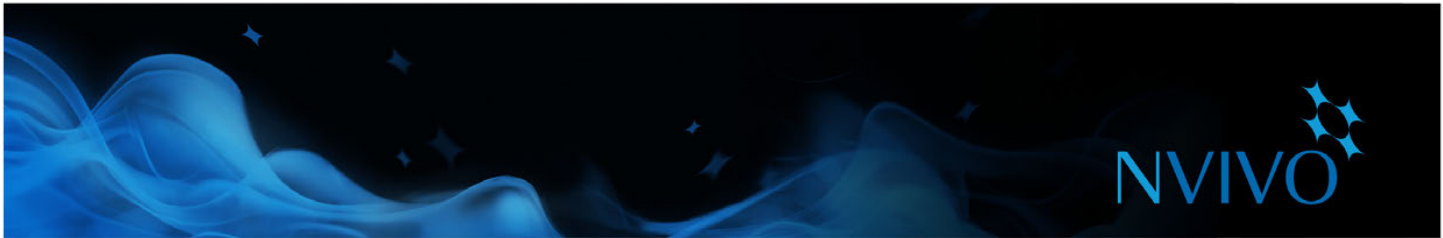
A picture source consists of a picture and a text log:



Code directly on the picture

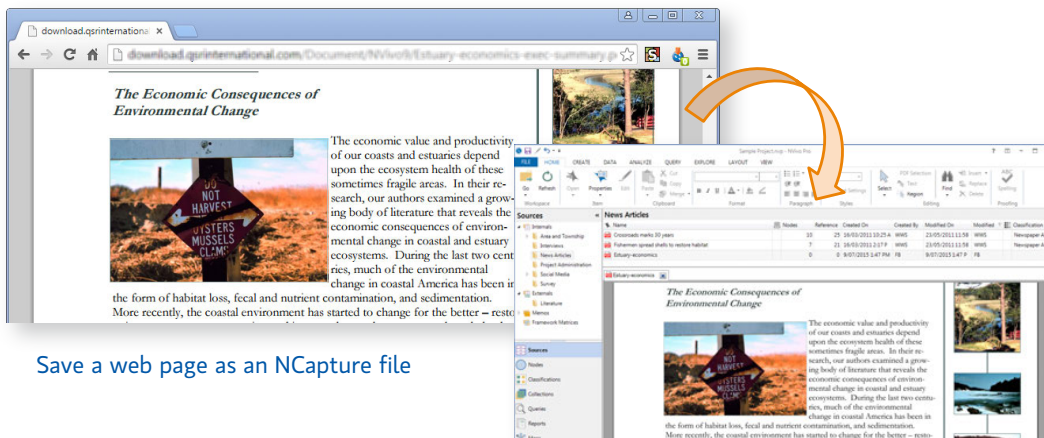
	Region	Content
1	740,240 - 1200,520	Large waterfront homes. These are not indicative of typical homes of those who engage in commercial fishing, but more indicative of second or vacation homes.
2	150,80 - 800,530	Commercial fishing boats. These are likely shrimping trawlers. Note that they have large "booms" that can be lowered laterally from the boat to hold the trawling net behind the boat as it travels.
3	810,350 - 1200,490	Recreational fishing boats

Create a log to describe the picture (or just selected regions)



Web pages, social media and YouTube videos

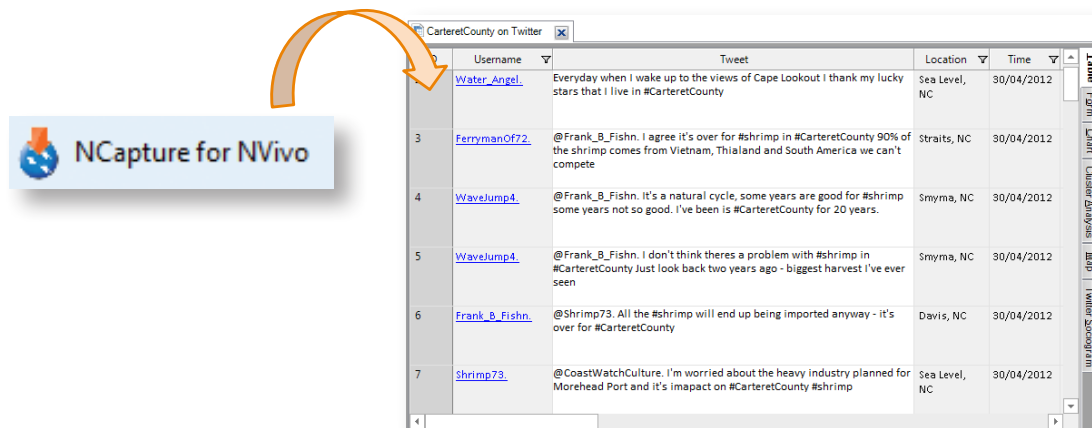
NCapture is a browser extension that lets you clip web pages and import them as PDF sources into your NVivo project.



Save a web page as an NCapture file

Import it as a PDF source

You can also capture social media conversations (from platforms like Facebook or Twitter)—and store them as PDF or dataset sources. Having content in a dataset means you can sort, filter and auto code—for example, you could gather Tweets by location.



Store social media content in a dataset

Using NCapture, you can also capture YouTube videos and then work with them in NVivo. You may also want to import any comments as a dataset.

For detailed instructions about installing and using NCapture, refer to the [NCapture Help](#).



Work with note-taking tools on mobile devices

When working in the field, you may want to collect data on a mobile device. For example, you could use your smartphone or tablet to:

- Record audio or video interviews
- Snap photos of participants, white-board diagrams or research settings
- Clip web pages and gather articles online
- Make notes to record field observations, ideas and insights

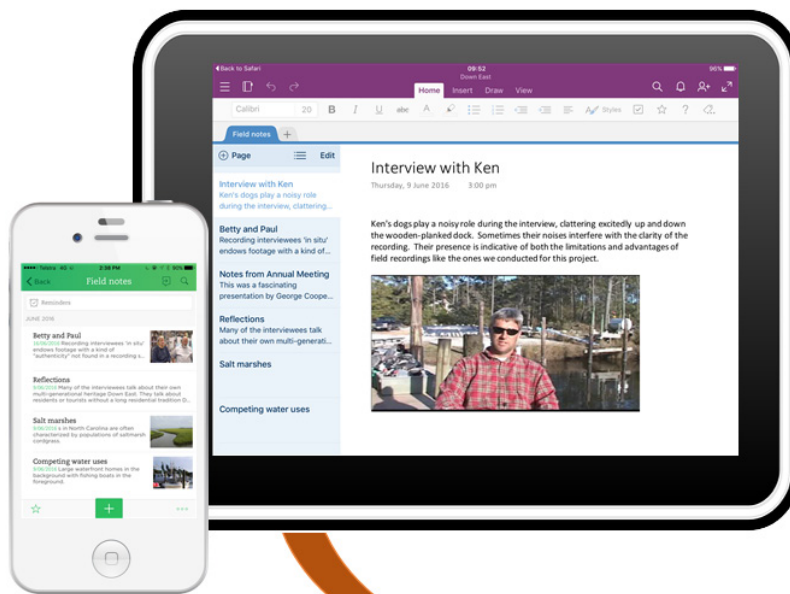
Gather and organize this data in your preferred note-taking tool, then import the material into NVivo.

Connect to your Evernote account to import individual notes or whole notebooks—you can choose to convert your tags to nodes.

Connect to your work, school or personal Microsoft account to import pages, sections or whole notebooks from OneNote Online. If you use OneNote 2007 or 2010, you can use the NVivo Add-In for OneNote to export your pages and bring them into NVivo.

Refer to the [NVivo Help](#) for more information.

Use Evernote and OneNote to gather material on your smartphone or tablet



Then easily bring your data into NVivo.



Create externals for the things you can't import

Externals are 'proxies' for the material you cannot import into NVivo such as books, or physical artifacts. You can create an external source (that looks like a document) and summarize the content of the item—for example, you might enter key points from a PowerPoint presentation or summarize the chapters in a book.

You can then code or annotate this content. If the external represents a file on your computer, you can create a link to the file and easily open it from within NVivo.

Bibliographical data

If you have conducted a literature review using a bibliographical application like EndNote, Mendeley, RefWorks or Zotero—you can export the data from the application as an EndNote XML file or RIS file and import it into NVivo. The records are added as sources in your project and the bibliographical details are stored as 'source classifications' and attribute values.

Source classifications

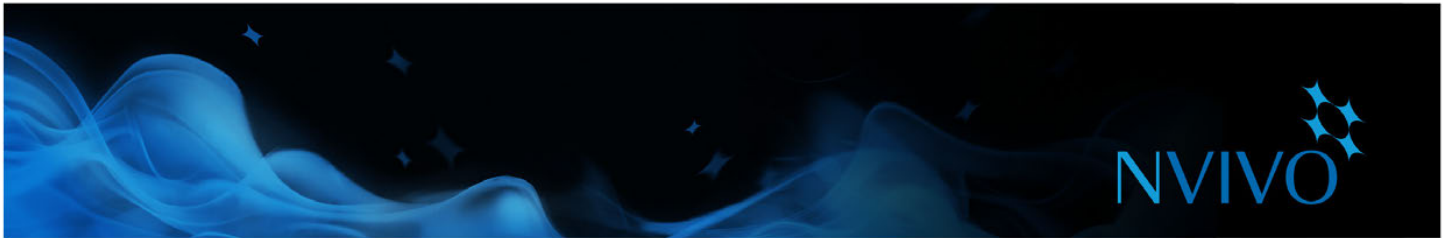
You can also record bibliographical information by 'classifying' your sources in NVivo—when you are ready to write up your findings, you can export this data to your reference management tool and use its features to insert citations and format the references. Refer to the [NVivo Help](#) for more information about classifying your sources and working with bibliographical data.

ideas

Literature reviews in NVivo – keeping everything in one place

Using NVivo for your literature review can be a great way to learn the software and get started with a project. You can bring in your journal articles and:

- Organize them in a source folder called 'Literature'.
- Code each article to gather material by theme—you might also want to make nodes for 'statistics', 'good quotes' and 'definitions'.
- Annotate as you read, marking content for follow-up or further exploration.
- Use memos to describe the key themes and critique the articles.
- Use source classifications to assign attributes like publication date and author (you can also import these from reference management software like Endnote). Then use queries to find everything an author wrote about a theme or everything that was written before a certain date.
- Use a Word Frequency query to see what common terms are being used.
- Use a Matrix Coding query to find gaps in the literature—what themes are already heavily discussed and which provide scope for further exploration?



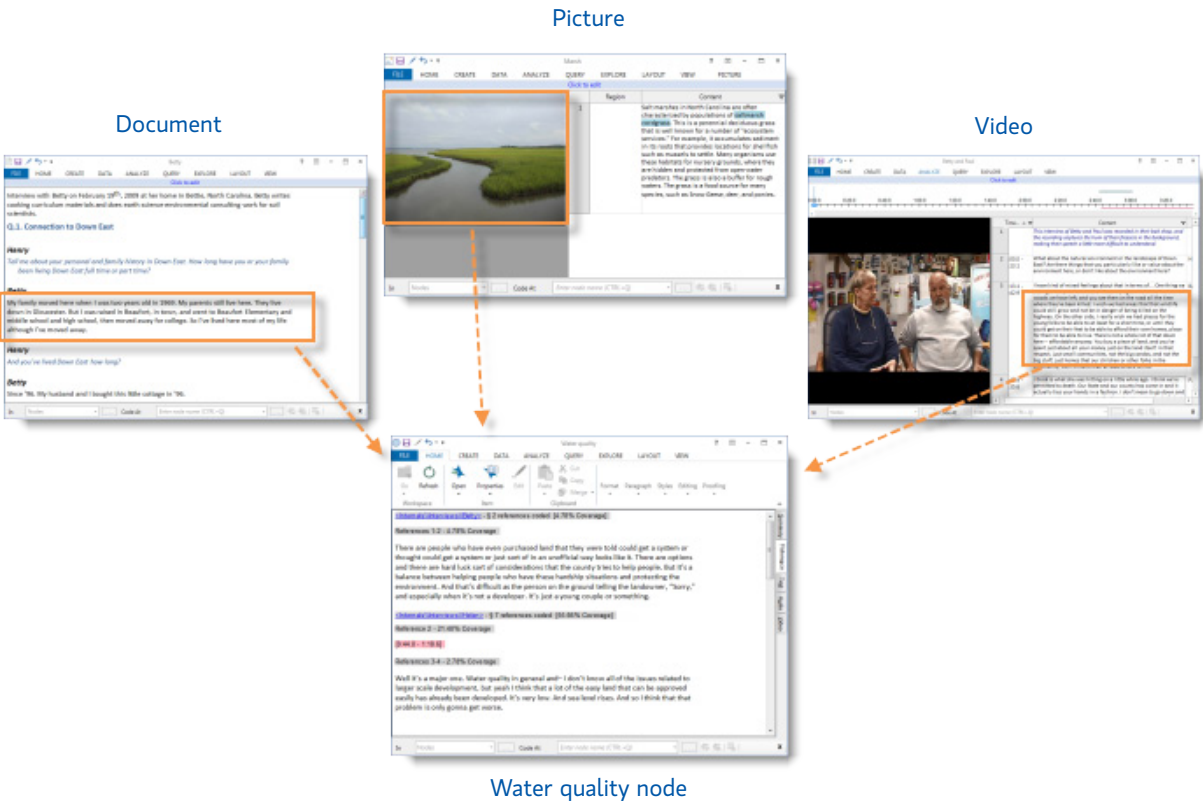
Understand nodes, cases and coding

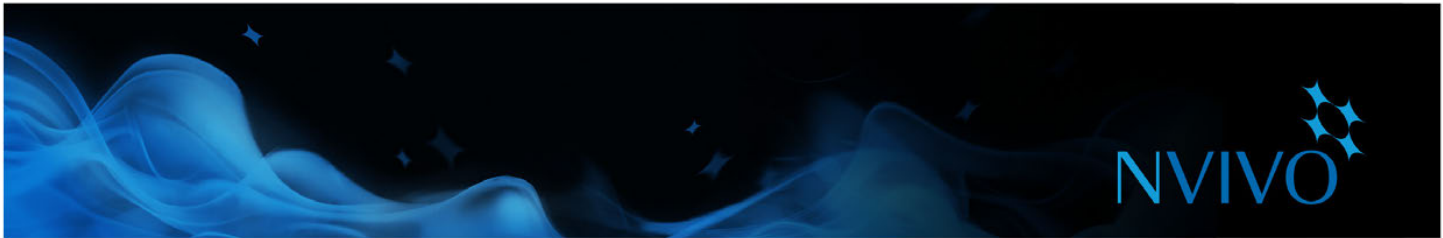
You code your sources to gather material about a topic and store it in a container called a node. As you explore your sources, you select content and code it at a node.

When you open any type of node you can see all the references in one place— allowing you to reflect on the data, develop your ideas, compare attitudes and discover patterns. Refer to “Open a node to explore the references” on page 34.

Nodes

Nodes represent themes, topics, concepts, ideas, opinions or experiences. For example, you could create the node *water quality* and as you explore your sources (documents, PDFs, datasets, audio, video or pictures) you could code all references to *water quality* at the node.

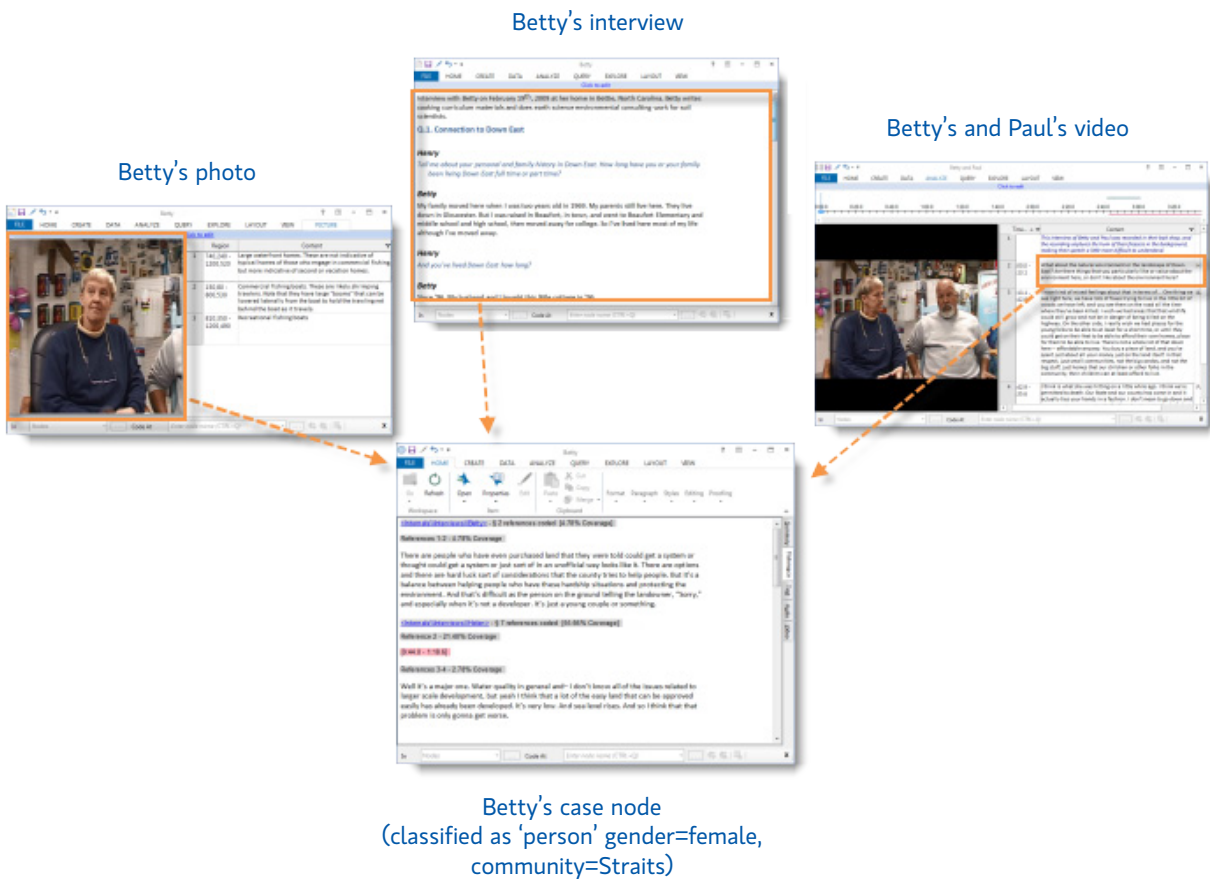




Cases

Cases represent your units of observation—a case might be a person, place, site, organization or any other entity.

Cases are a special type of node because you can classify them then assign attributes (variables) such as age, gender or location. As you code content at cases and theme nodes, you can use queries to ask meaningful questions—How do young women respond to the challenge of climate change? Do their attitudes differ from those of older women?



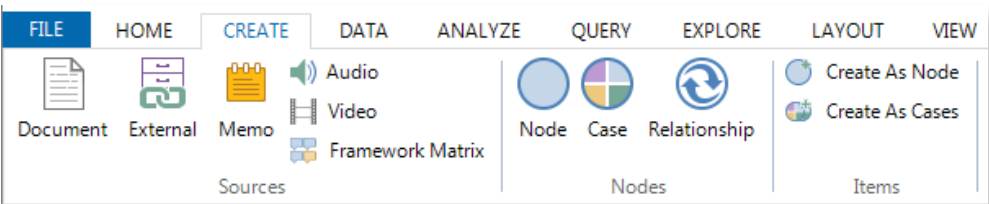


Working with nodes

Creating nodes

If you already know what themes you are looking for (based on your literature review, for example), you can create and organize your nodes before you start coding.

It's easy to create nodes using commands on the Ribbon—on the **Create** tab, in the **Nodes** group, click **Node**.



If you want to pre-design your node structure, you can quickly create nodes using a mind map. Refer to “Building maps” on page 46.

Alternatively, if you want to see what themes emerge from your sources, you can create nodes as you code. Refer to “Code at new or existing nodes” on page 31.

Creating node hierarchies

Organizing your nodes into a hierarchy is an important part of the analytical process, helping you to refine your thoughts and draw connections between themes.

Add ‘child’ nodes (sub-nodes) under an existing node to create a hierarchy. You can also drag & drop or cut & paste nodes to move them around.

As you code at the node, you can see the number of sources and references increase

Nodes				
	Name		Sources	References
	Economy		15	225
	Agriculture		5	15
	Fishing or aquaculture		11	153
	Jobs and cost of living		7	49
	Tourism		4	6

When the parent node has ‘aggregation’ turned on, any content coded at the child nodes is rolled-up into the parent node

See the NVivo Help for more information about customizing and displaying columns

Build an efficient node hierarchy

ideas

- Keep node names short and pertinent.
- Make sure a node only appears once in the whole hierarchy.
- Try not to combine concepts in a node. For example, instead of coding some text at skeptical attitudes about government policy, code it at both the node skeptical attitudes and government policy. Use queries to gather your coded content coded at multiple nodes.
- Try not to force nodes into a hierarchy—if a node is not related to any other concept then leave it at the top level.
- Try not to nest more than 3 levels deep if you can help it.
- Prune your nodes regularly. Merge, reorganize, rename. See the [NVivo Help](#) for more information.
- Create a memo and make notes about why you structured your nodes a particular way. If you change the structure later, explain why in your memo.

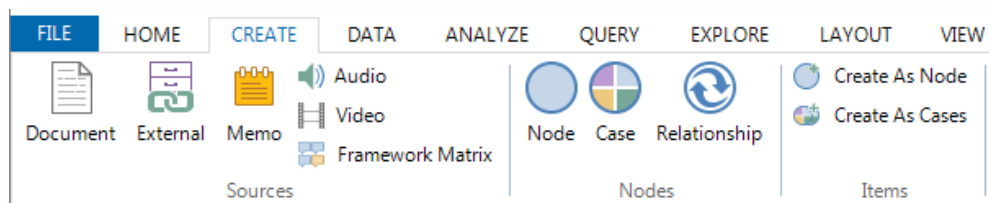


Working with cases

Creating cases

You can create cases manually just like creating nodes. If you want to get the most out of your cases, consider classifying them and assigning attribute values.

In List View, you can select a source then on the **Create** tab, in the **Items** group, click **Create as cases**—this action will create a case and code the entire source at the case node.



If you have a large number of cases, NVivo provides ways to speed up the process. For example, you could automatically create cases when you import sources, and you could then import descriptive attributes from a spreadsheet or text file. See the [NVivo Help](#) for more information.

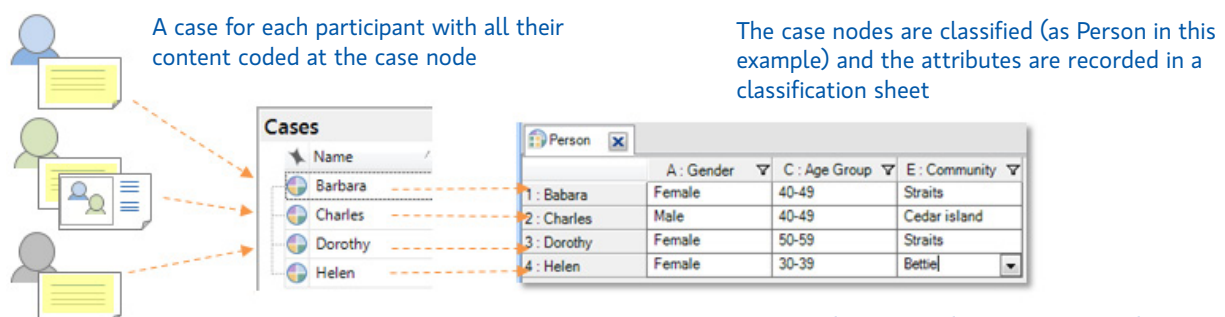
Understanding classifications and attributes

Use classifications to record descriptive information, like demographic details, about the cases in your project.

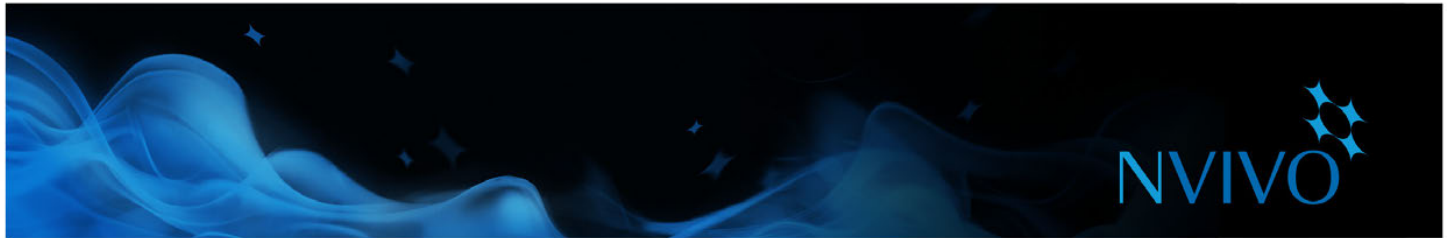
For example, if you have interviewed people in a particular community, you may want to collect information about their age, gender and occupation—and compare their responses based on these attributes.

To work with case classifications and attributes, you need to:

- Create a classification—for example, Person. You could also create classifications for different types of people, like students or teachers.
- Define attributes for the classification—for example, age group and gender.
- Create a case then classify it and assign relevant attributes values to it—for example, 60-69 and female.
- Code content to the case. Coding is how the source content is assigned to the case.



You can then use coding queries to gather content based on demographic attributes



Classifying cases

1. In List View, select the case you want to classify.
2. On the **Home** tab, in the **Item** group, click **Properties**.
3. Click the **Attribute Values** tab then assign a classification.
4. Click the arrow in the **Value** field to select a value for each attribute.

If you have demographic data about your cases in a spreadsheet you can import this data and automatically classify the case nodes in your project. See the [NVivo Help](#) for more information.

Work with classification sheets

Classification sheets provide an overview of the items in a particular classification. For example, if you have created cases for interview respondents and classified them as *Person*, you can double-click on the classification to quickly see the spread of your respondents:

Apply filters to see a subset of your data

Click in a cell to update attribute values

Person						
	A : Age Gro...	B : Community	C : Gender	D : Generations Down E...	E : Opinion - Pace of De...	F : Township
22 : DE008	50 - 59	Otway	Male	1	about right	Straits
23 : DE009	60 - 69	Marshallberg	Female	3 or more	too fast	Marshallberg
24 : DE010	60 - 69	Stacy	Female	3 or more	about right	Stacy
25 : DE011	50 - 59	Stacy	Female	3 or more	too slow	Stacy
26 : DE012	60 - 69	Williston	Female	2	undecided	Smyrna
27 : DE013	50 - 59	Straits	Male	3 or more	too fast	Straits
28 : DE014	60 - 69	Bettie	Male	1	too fast	Straits
29 : DE015	60 - 69	Sea Level	Male	3 or more	undecided	Sea Level
30 : DE016	70 - 79	Sea Level	Male	3 or more	too fast	Sea Level
31 : DE017	50 - 59	Cedar Island	Male	3 or more	too slow	Cedar Island
32 : DE018	30 - 39	Gloucester	Female	3 or more	too fast	Straits
33 : DE019	50 - 59	Sea Level	Male	3 or more	too fast	Sea Level
34 : DE020	60 - 69	Straits	Male	none	about right	Straits
35 : DE021	80 - 89	Cedar Island	Male	3 or more	too slow	Cedar Island
36 : DE022	70 - 79	Atlantic	Female	3 or more	too slow	Atlantic
37 : DE023	50 - 59	Atlantic	Female	3 or more	too slow	Atlantic
38 : DE024	70 - 79	Atlantic	Male	3 or more	too fast	Atlantic
39 : DE025	70 - 79	Davis	Male	3 or more	too slow	Davis
40 : DE026	60 - 69	Gloucester	Male	2	too fast	Straits
41 : DE027	50 - 59	Smyrna	Male	1	about right	Smyrna

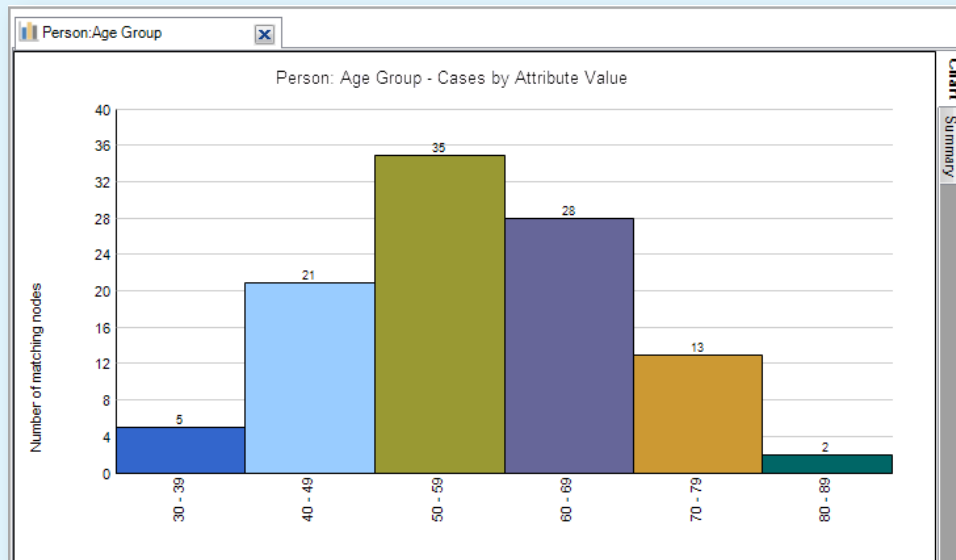
Exploring people, places and other cases

NVivo provides tools for exploring the cases in your project, for example, you could:

- Use a matrix coding query to compare your respondent's comments based on demographic attributes:

	A : Person:Commercial Fishing = Yes	B : Person:Commercial Fishing = No
1 : Positive	4	19
2 : Mixed	0	6
3 : Negative	31	127

- Create a chart to check the demographic spread of your respondents:



- After reviewing the content in a case node—make a concept map to visualize a participant's perceptions and to 'tell their story'.
- Generate a comparison diagram to compare coding between two cases.
- Make a memo to record your thoughts and insights about the case.



Coding your source materials

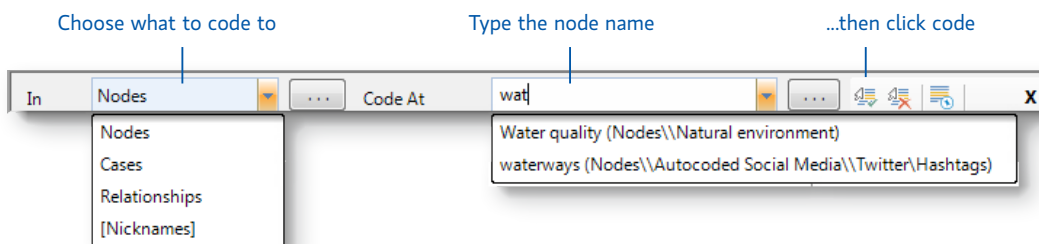
You code your source materials to gather material about a topic and store it in nodes and cases.

Code at new or existing nodes

1. Open a source in Detail View.
2. Select the content that you want to code. The content you can select depends on the type of source you are working with.

There are a few different ways to code. Try:

- Dragging the selected content to an existing node or case in List View.
- Accessing the right-click menu to choose a coding option.
- Clicking options on the ribbon—on the **Analyze** tab, in the **Coding** group, choose a coding option.
- Using keyboard shortcuts—refer to the [NVivo Help](#) for more information about shortcuts.
- Using the Quick Coding bar (at the bottom of Detail View) to code content at existing nodes. You can create nodes, cases and relationships here too.



Make a node from a selected word

Sometimes you want to stay as close as possible to your participants' own words. Use text taken directly from the source content to create and code at new nodes.

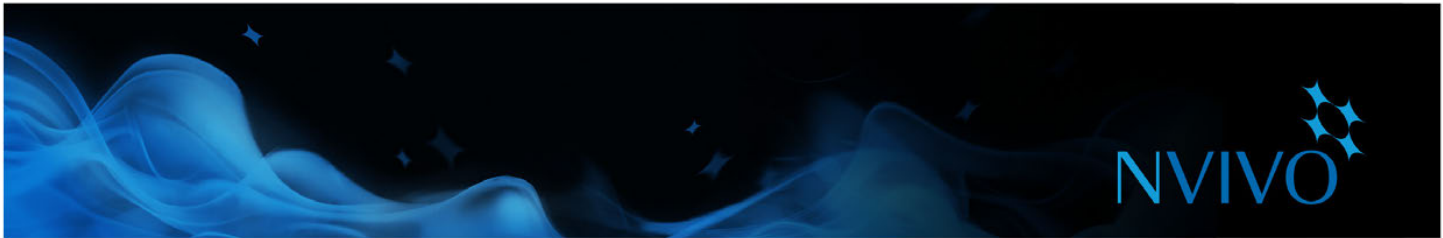
Select the text content you want to code then on the **Analyze** tab, in the **Coding** group, click **Code In Vivo**. The selected word or phrase is used to name the node and is (at the same time) coded at the node.

Approaches to coding

ideas

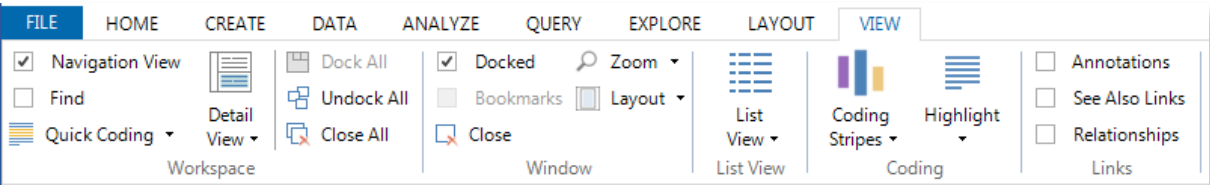
The way you approach coding depends on your methodology and research design but here are some ideas to get started:

- Start with 'broad-brush' coding to organize the material into broad topic areas (you can use Text Search queries to help with this)—then explore the theme node for each topic and do more detailed coding. For example, gather all the content about *water quality* and then explore the theme node looking for interesting perceptions, contradictions or assumptions.
- Or, you could get straight into detailed coding (making theme or case nodes as you need them) and then, later on, combine and group your nodes into related categories.
- As you reflect on a piece of content, think about these different types of coding:
 - Topic coding—What is the topic being discussed? For example, *water quality*, *real estate development*, *tourism* and so on.
 - Analytical coding—What is this content really about? Why is it interesting? Consider the meaning in context and express new ideas about the data. For example, *ideals vs reality*, *tension between developers and residents*.
 - Descriptive or case coding—Who is speaking? What place, organization or other entity is being observed?



See what you have coded

To see what has been coded in a source, you can use options on the ribbon.



- Turn on coding highlight—on the **View** tab in the **Coding** group, click **Highlight**, and then select a highlight option.
- Turn on coding stripes—on the **View** tab in the **Coding** group, click **Coding Stripes**, and then select an option. Coding stripes are displayed on the right side of the source.

Right-click on a stripe to open the node

Right-click on a stripe to uncode content at the node

Right-click on a stripe to highlight the coding at the node

Coding stripes can reflect the colors you have assigned to nodes—refer to the NVivo Help for more information about using color in your project

Barbara

Well, the one thing is that it's very low. The land is so low and the water table is so high. And it's tough for people to get septic permits. As environmental standards have gotten more stringent, some local people that have inherited land are finding that they can't get a permit, or they have but they have to install a very, very expensive pretreatment system, which is too much to pay for. And so I've seen it be a challenge for local people who are trying to stay where they grew up. And so that's a big limiting factor right now for development, which is okay. But it's interesting. Sometimes it's tough when people can't build the house on their land that they inherited or can't do anything with their land, but I understand the limitations also. **It's critical to maintain the water quality.**

There are people who have even purchased land that they were told could get a system or thought could get a system or just sort of in an unofficial way looks like it. There are options and there are hard luck sort of considerations that the county tries to help people. But it's a balance between helping people who have these hardship situations and protecting the environment. And that's difficult as the person on the ground telling the landowner, "Sorry," and especially when it's not a developer. It's just a young couple or something.

Henry

So do you think that that's the major sort of limiting factor, environmental factor impacting development in Down East?



Open a node to explore the references

You can open a node to see related references gathered in one place. In Navigation View, click **Nodes** then in List View, double-click the node you want to explore.

The node is opened in Detail View.

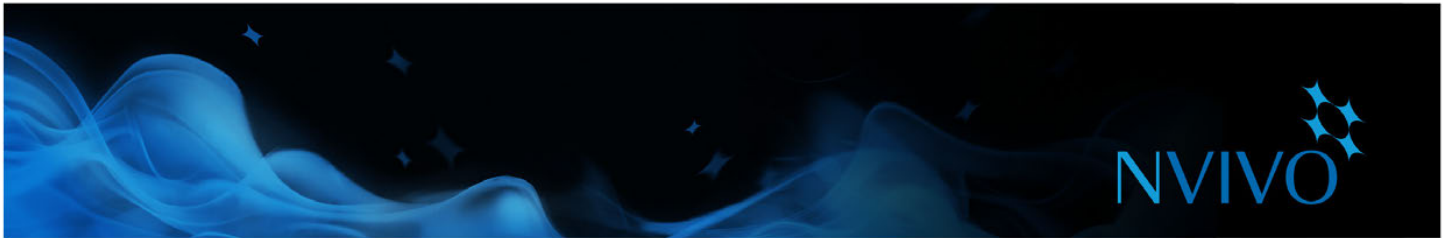
You can see what sources were coded and click on the link to open a source

You can set options to display more or less of the context around a reference

The Reference tab is displayed by default, it shows all the text content coded at the node

Click on these other tabs to see content from pictures, PDFs, audio, video and datasets

You can select content and 'code on' to new nodes



Automatic coding techniques

Quick coding with Text Search queries

You can use NVivo queries to automatically code your sources based on the words or phrases they contain. This can be a useful starting point for reviewing your data. For example, you could run a Text Search query on the word *fish* and automatically code all occurrences. You can search for exact words, phrases or similar concepts. For example, search for *fish* and find *trout*, *mullet*, and *crab*.

To create a Text Search query—on the **Query** tab, in the **Create** group, click **Text Search**. Refer to the NVivo Help for more information about the options you can choose.

Quick coding based on style or structure

Interview documents can be auto coded based on style or structure—for example, if participants are all asked the same set of questions, you can auto code the interviews based on paragraph styles.

Datasets can be quickly coded based on their structure too—for example, you can auto code a survey dataset to gather all the answers to each question.

The screenshot shows the 'Survey Responses' window in NVivo. It contains a table with columns: ID, Respondent, and several question prompts. The responses are as follows:

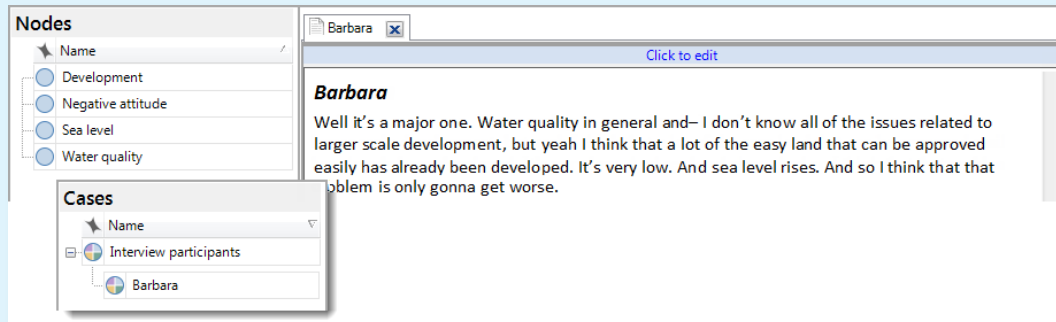
ID	Respondent	The natural environment Down East is	The water quality Down East is	Commercial fishing Down East is	The types of development I would like to see
9	DE009	needed to keep the natural look of the area.	getting worse as time goes on with no control on development.	an important part of everyday life that is going away!	keeping small business the original life of down east at heart.
10	DE010	worth preserving	not good - believe run off from (7) and farms have damaged the quality	lost industry - due to bad water quality	couple of businesses
11	DE011	as good as when I was a kid	pristine	fading and needs to be revived by way of coop	more houses, small business and housing for elderly that is affordable
12	DE012	fragile	deteriorating	a dying industry	cluster housing
13	DE013	in need of good stewards	good		water system
14	DE014	threatened	very good until further development without zoning!	Almost gone due to public ramps expanded commercial fishery. and tourists with jet skis.	

An orange arrow points from the 'Survey Responses' window to the 'Autocoded Survey Data' window. The 'Autocoded Survey Data' window shows a list of questions with radio buttons next to them, indicating that the data has been automatically coded based on the questions.

In survey results, you can auto code to gather the answers to each question.

Coding tips

- Remember that you can code content at multiple nodes and cases. For example, you could code Barbara's comment at all of the theme nodes shown here, as well as the case node Barbara:



- If you code all your interviews like this, then you can use queries to gather your material in different combinations. For example, show me:
 - All the content coded at *water quality and development*
 - Negative attitudes about *water quality*
 - What women said about *water quality*
- If you find an interesting phrase or theme in one interview, you can use a Text Search query to see if it appears in the other interviews—and automatically code the content.
- After exploring and coding a source, take some time to reflect on what you have discovered. Run a report to see which theme or case nodes have been used most often—how do these nodes relate to each other? Make a project map to explore the relationships and record your thoughts in a memo.
- You may not need to exhaustively code all your material. For example, if after working through twelve interviews you are not finding any new themes or ideas—you may have reached 'saturation'. You could use Text Search queries to do some broad-brush coding in subsequent interviews.



Memos, annotations and links

Memos are an integral part of the research process—and can be a great starting point when you come to writing-up your project. Memos are like documents and they can be linked to sources or theme and case nodes.

Annotations are like scribbled notes in the margin—they let you record comments, reminders or observations about specific content in a source or node.

Use 'see also' links to draw connections between items in your project. For example, you can use 'see also' links to point out contradictions, follow evidence or show a sequence of events.

Creating a linked memo

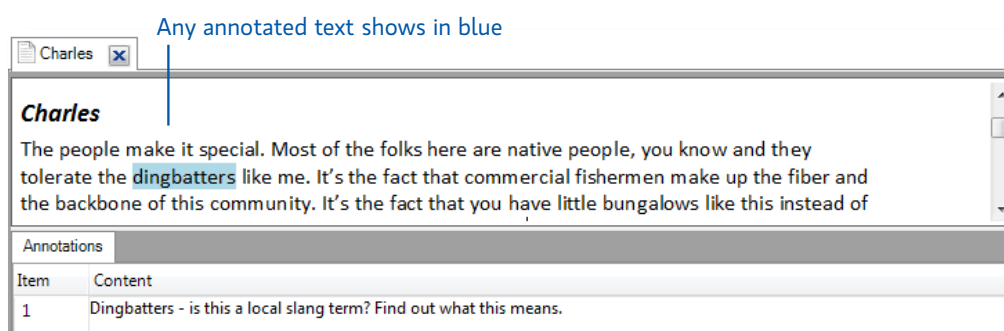
To create a memo that is linked to a source or node:

1. Select the source, theme node or case node in List View or open it in Detail View.
2. On the **Analyze** tab, in the **Links** group, click **Memo Link**, and then click **Link to New Memo**. The **New Memo** dialog box opens.
3. Enter a name for the memo.
4. (Optional) Enter a description of the memo.
5. Click **OK**. The memo is opened in edit mode and you can enter the content.

Adding an annotation to selected content

To create an annotation:

1. Select the content you want to annotate.
2. On the **Analyze** tab, in the **Annotations** group, click **New Annotation**.
3. In the **Annotations** tab at the bottom of Detail View, enter the annotation.



Adding a see also link

To add a see also link from content to another source:

1. Select the content you want to link from.
2. On the **Analyze** tab, in the **Links** group, click **See Also Link**, and then click **New See Also Link**.

Memos - a crucial piece of the analytical puzzle

You can use memos to tell the story of your project—from your early ideas and assumptions to fully-fledged insights about a topic, person, or event. Use them to ‘talk to yourself’ as you make sense of your data.

Tracking your analytical process with memos can help you to increase the transparency and reliability of your findings. With your process recorded in memos, you can easily demonstrate the evolution of a theory or quickly call up data that supports client questions.

Memos are quite ‘free form’ in NVivo and our innovative users (from the [LinkedIn NVivo Users Group](#)) have come up with some great uses for them:

- **Project memo**—record your goals, assumptions and key decisions. Like a journal, update it regularly and include links to the significant theme nodes and sources. Bring your journal to life by displaying it in a project map.
- **Interview or participant memo**—summarize the key points of an interview. Make note of contradictions, surprises or early hunches. Include ideas about the theme nodes you might make and include photos or descriptive information about the interview setting.
- **Node memo**—explain why you think a theme is significant (especially useful in team projects). Add to the memo as your thinking evolves and include links to the related literature. By writing as you go, you won’t face the pressure of staring at a blank document when it comes to writing up your project.
- **Query results memo**—what do these query results tell me? Make a memo to organize your ideas and to plan future steps. If you display your query results in a chart or other visualization, copy and paste it into the memo.
- **Analytical and procedural memos**—record your findings in analytical memos and use procedural memos to document the methodological steps you take.
- **NVivo memo**—record what works best in the software, including any tips or shortcuts you want to remember. Include links to NVivo-related support materials that you’ve found on the web.



Summarize your data in framework matrices

You can use framework matrices to summarize your data in a grid format—this is especially useful if you are working with interview or focus group transcripts.

The grid has rows for case nodes (for example, people you interviewed) and columns for theme nodes—you can enter your summary in the cells where the case and theme intersect. For example, you could summarize Anna's experience of volunteering:

Enter summary text in the cell

Associated View displays the content coded at the case

Volunteering				
	A : experiences of volunteering	B : images of volunteers	C : meanings of volunteer work	D : personal goals
1 : Anna Age Group = 20-29	Regular volunteer with Starlight Children's Foundation helping with fundraising and wish-granting	Everyday person with passion for helping others and the community	Providing resourcing assistance to others by giving your power, time and energy	Personal connection or experience with a cause (for example, cancer)
2 : Fredric Age Group = 30-39	Used to help organize Church socials. Enjoyed it because I enjoyed interacting with like-minded people. Didn't feel like volunteer work because it was just a hobby.	Community-minded person with plenty of spare time. Ones I know	Doing something for the community at no charge.	
3 : Bernadette Age Group = 40-49	Involved in community groups. Helping injured wildlife and representing consumers in Mental Health.	Community minded, sharing people. Must be share their energetic.	A way that people can connect to a cause through a family connection. Or	Volunteers are often connected to a cause through a family connection. Or
4 : Mary Age Group = 50-59	Meals on Wheels in late 1980's, but friend couldn't	Someone with time who is		Social side - s my friends and

Q.4 Volunteering experience

Interviewer: Have you done any volunteer work?

Anna: Yes, I had. And I still do.

Interviewer: What did you do, and when?

Anna: I am currently registered as a volunteer for the Starlight Children's Foundation helping with fundraising events and wish-granting activities.

Interviewer: How was the experience?

Anna: The experience of granting a wish is extremely rewarding and really makes such a meaningful difference to a family that is going through such a difficult time. I have also assisted a big charity with their annual Christmas toy and hat drive. I have been able to bring a smile to the faces of families at a time many of us take for granted.

I have also taken part in tree planting for Landcare. This was quite difficult. Gardening and the environment aren't high priorities for me so I do something different - doing my bit for future generations.

Interviewer: Would you do more in future?

Anna: I would definitely consider volunteering in the future if I have the time.

Working with condensed source materials in the framework matrix can make it easier to:

- See everything about a theme by looking down a column.
- See how different themes relate to each other for a particular individual by looking across a row.
- Compare the experiences of different individuals by comparing one row to another.

Once you have condensed your source materials in a framework matrix, you can easily share your data with others by printing the matrix or exporting the matrix to a spreadsheet.

Before you can start working with framework matrices, you need to import your source materials, code source content to case nodes, and set up thematic node hierarchies. Refer to the NVivo Help for comprehensive information about working with framework matrices.

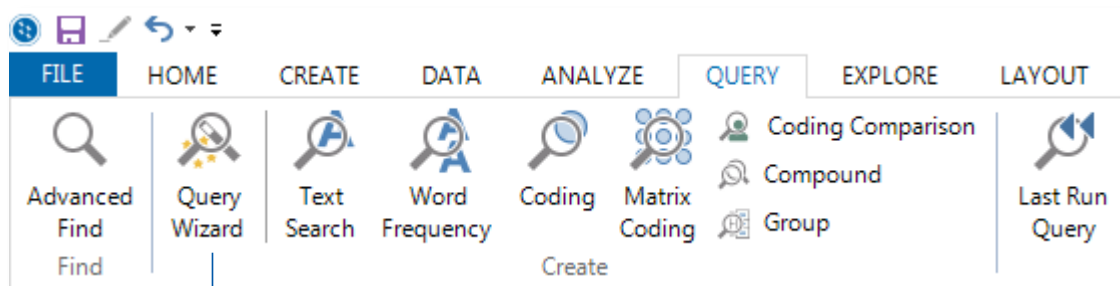


Bring it all together with queries

You can use NVivo queries to:

- Find and analyze the words or phrases in your sources, theme nodes, cases and relationships. You can find specific words or those that occur most frequently.
- Ask questions and find patterns based on your coding, check for coding consistency among team members and review your progress.

You can work with queries using the **Query** tab:

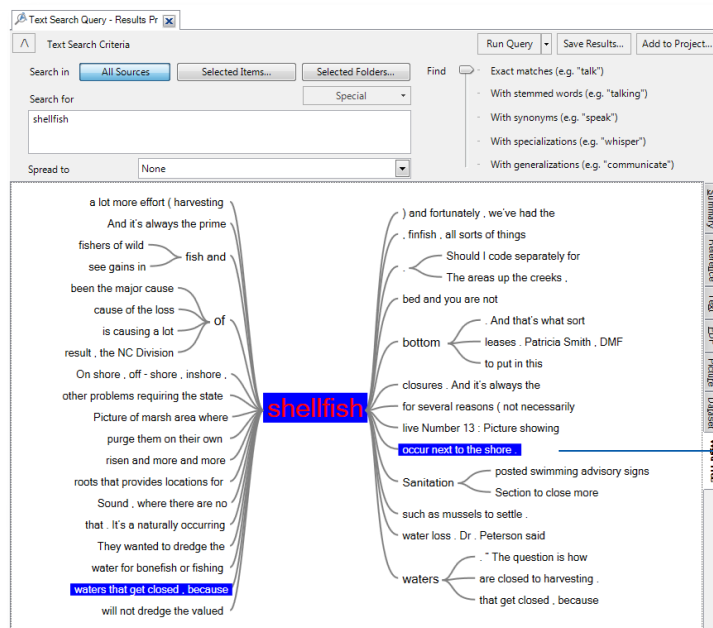


Easily create queries using the step-by-step Query Wizard

Use queries for text analysis

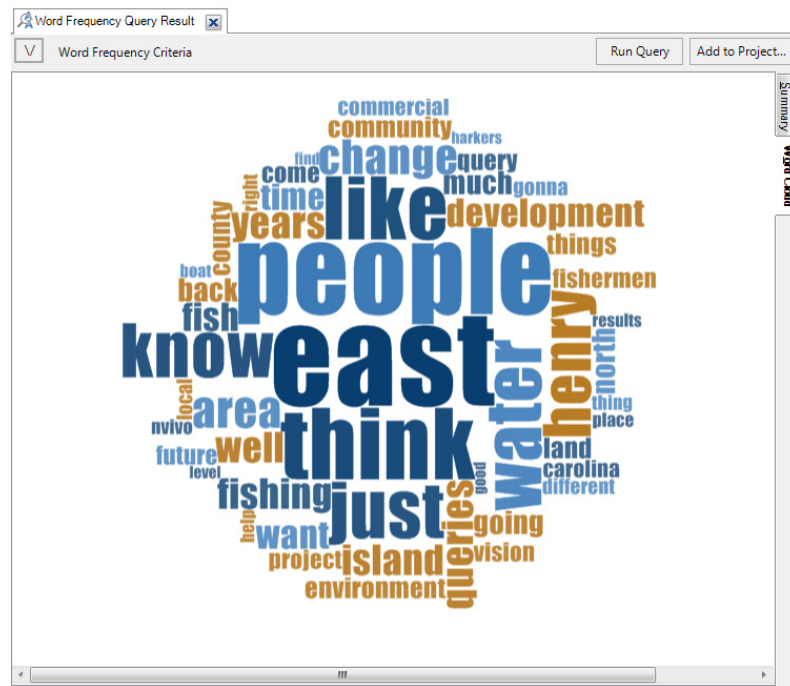
You can explore the text in your sources using the following queries:

- Text Search Query:** search for a word or phrase in your source material and view all the matches in a preview node—automatically code the content (if you want to). Display a word tree to visualize words in context:



Display results in a word tree, click a branch to highlight the context

- **Word Frequency Query:** list the most frequently occurring words in your sources and visualize the results in a word cloud, tree map or cluster analysis diagram:



- Display results in a word cloud
- Double-click a word to view all occurrences

Use queries to explore your coding

You can review and explore your coding using:

- **Coding Query:** gathers all the coding at any combination of nodes—for example, gather and explore all content coded at *water quality* and *tourism*, or find where content coded at *water quality* is near content coded at *tourism*.
- **Matrix Coding Query:** creates a matrix of nodes based on search criteria. For example, show me attitudes about *water quality by community*.
- **Coding Comparison Query:** compares the coding of two researchers or two groups of researchers. This is useful for teams who are interested in coding consistency and the questions posed by researcher disagreement.
- **Compound Query:** combines text and coding queries—search for specified text in or near coded content.
- **Group Query:** finds items that are associated in a particular way with other items in your project. For example, list the theme nodes that code a selection of sources.

Making the most of queries

- Start running queries early on in the coding process—they can help you focus on the questions you want to ask (and prompt you to code accordingly). For example, if you want to ask “How serious are the issues of water quality for local fishermen?”—make sure you code at the theme node for *water quality* and code at case nodes with the *fisherman* attribute.
- Use coding queries to build-up and test ideas. For example, you have a hunch that people’s perception of water quality is closely tied to the pace of development. Create a query to gather all material coded at *water quality* where it is NEAR content coded at ‘development’.
- Use matrix coding queries to compare attitudes based on demographic attributes. For example, explore attitudes about *water quality* by community:

	A : Positive	B : Mixed	C : Negative
1 : Atlantic	10	0	8
2 : Bettie (Straits)	11	3	5
3 : Cedar Island	4	0	2
4 : Davis	6	0	5
5 : Gloucester (Straits)	13	0	4

Double click a cell to see the coded content

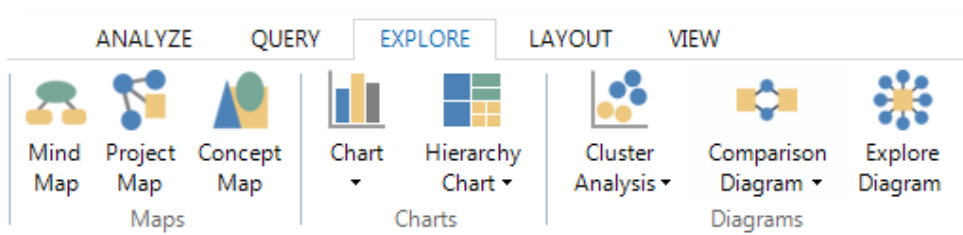
- Make a memo to record what you learn from a query—this can prompt you to ask further questions and facilitate deeper analysis. Link the memo to the query results.



Visualize your project

NVivo lets you explore your data using charts, maps, diagrams and other visualization techniques. They can help you to explore trends, test theories and make sense of what is happening in your source materials.

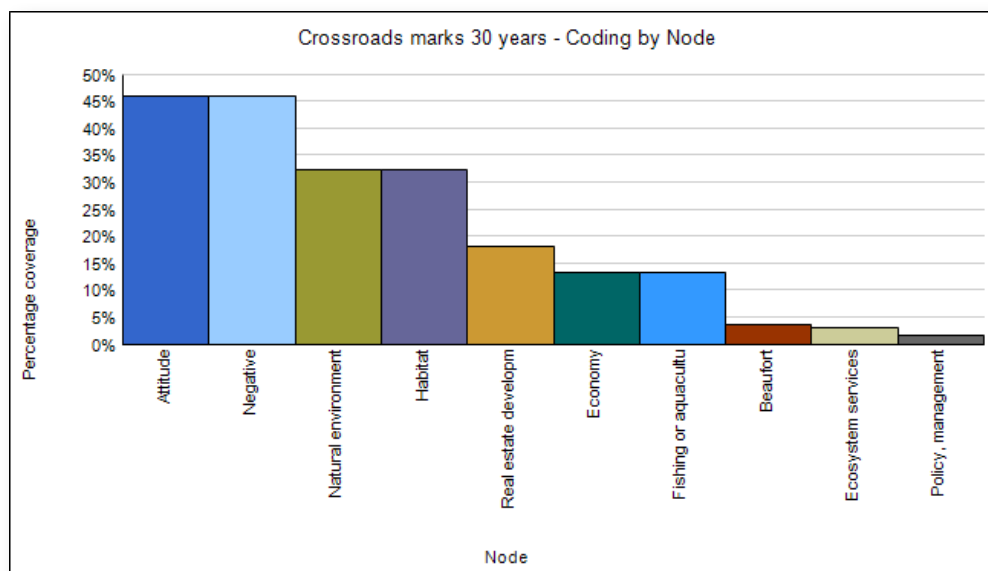
Create charts, maps and diagrams using options on the **Explore** tab:



Generating diagrams

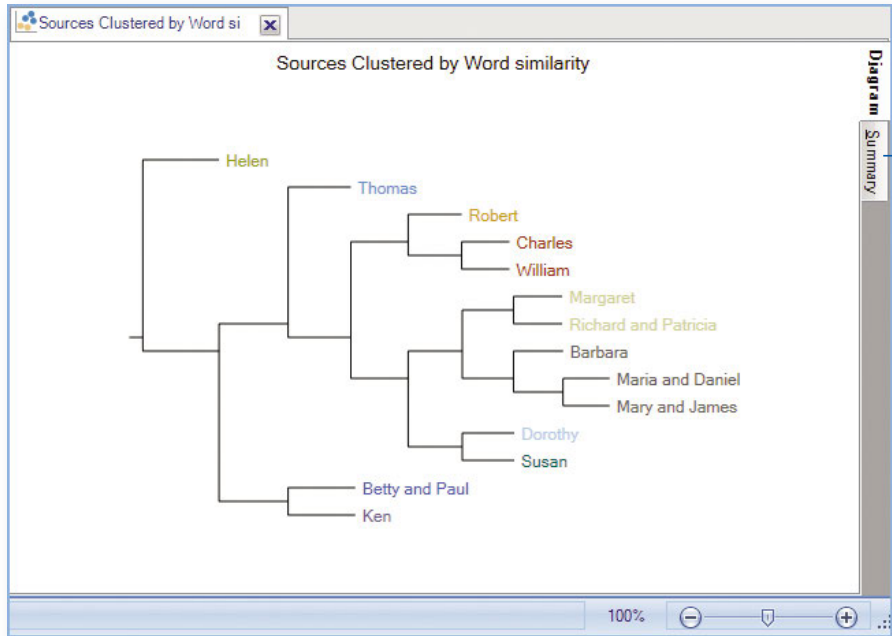
Diagrams are illustrative tools that are generated based on your project data—a quick and easy way to represent your data visually.

- **Charts:** Create a chart to present or explore the data in your project. For example, to see the theme nodes that code a source. You can create a chart using the Chart Wizard or while working on other areas of your project—for example, you can make a chart based on a node, case, node matrix or source that you have opened in Detail View.



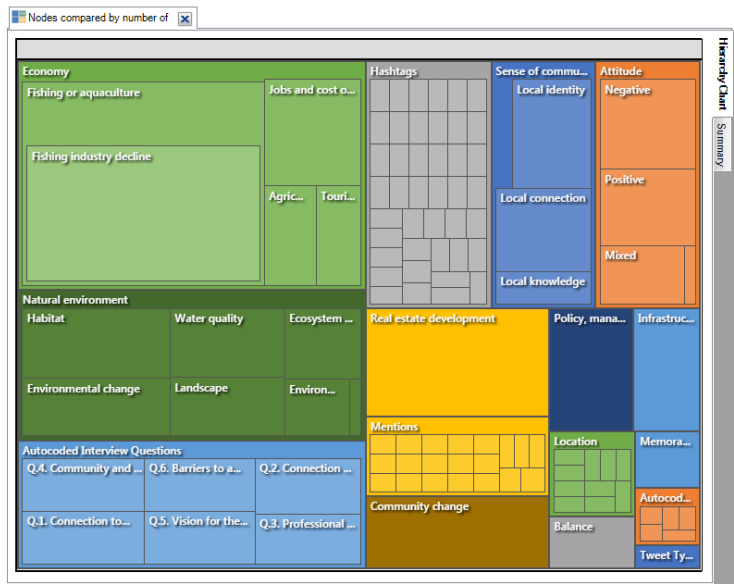


- Cluster analysis diagram:** Group sources, theme nodes or cases that share similar words, attribute values, or coding:



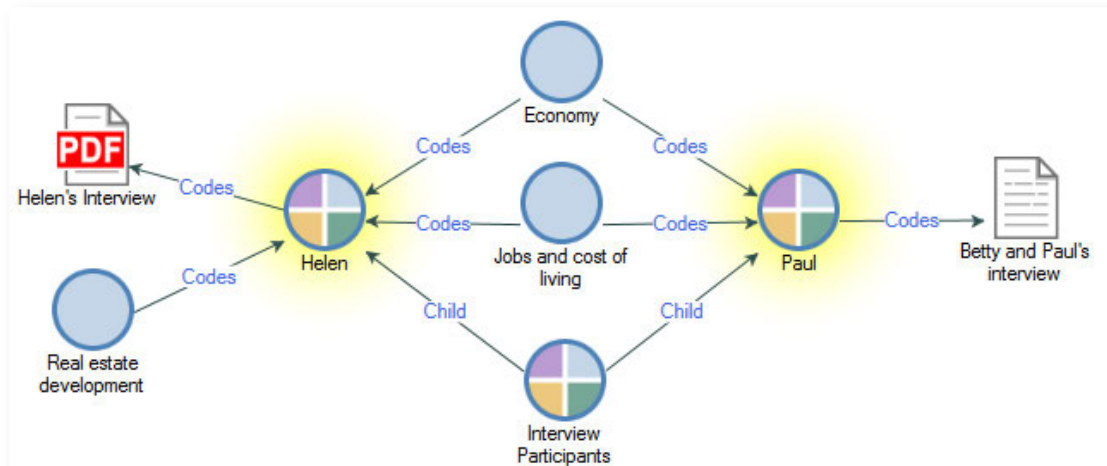
Click the Summary tab to see the values that were used to generate the diagram

- Tree map diagram:** Use a tree map to compare nodes by the number of references they contain. See patterns of coding in your project, or compare sources or nodes based on their attribute values.

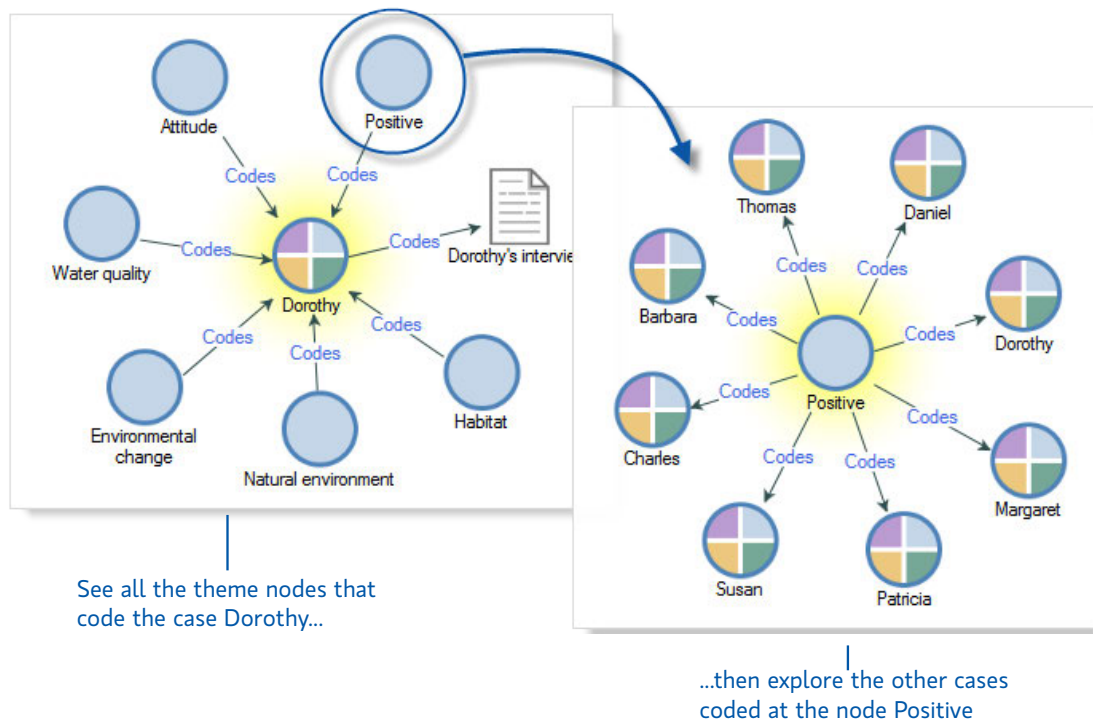




- **Comparison diagram:** Generate a comparison diagram to compare two cases to see what they have in common:



- **Explore diagram:** Generate an explore diagram to show all of the items connected to a single project item. The power of this diagram is that it is dynamic, allowing you to step forward and back through your project data to explore the connections between items:



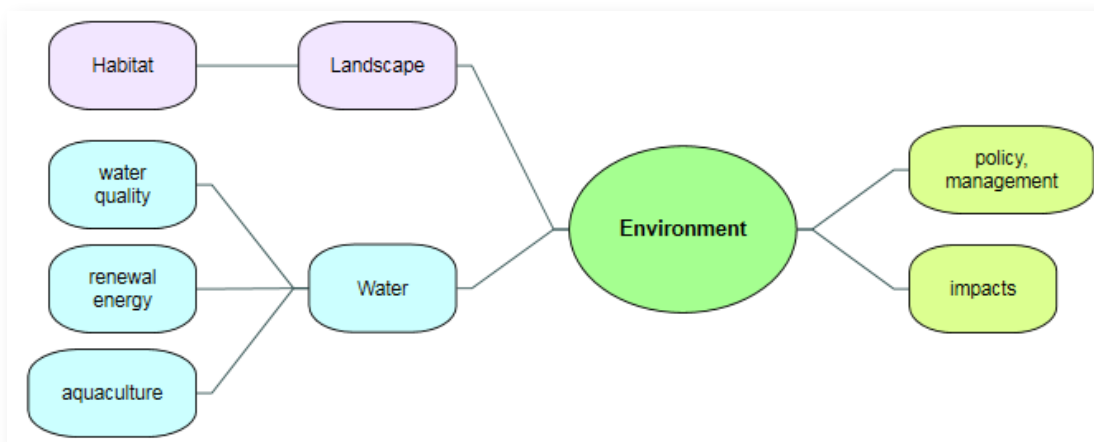
As you work with sources, nodes or query results you can choose to visualize the data. For example, you can display a cluster analysis diagram for a social media dataset or display a word cloud for the results of a Word Frequency query.

Refer to the [NVivo Help](#) for more information about working with visualizations.

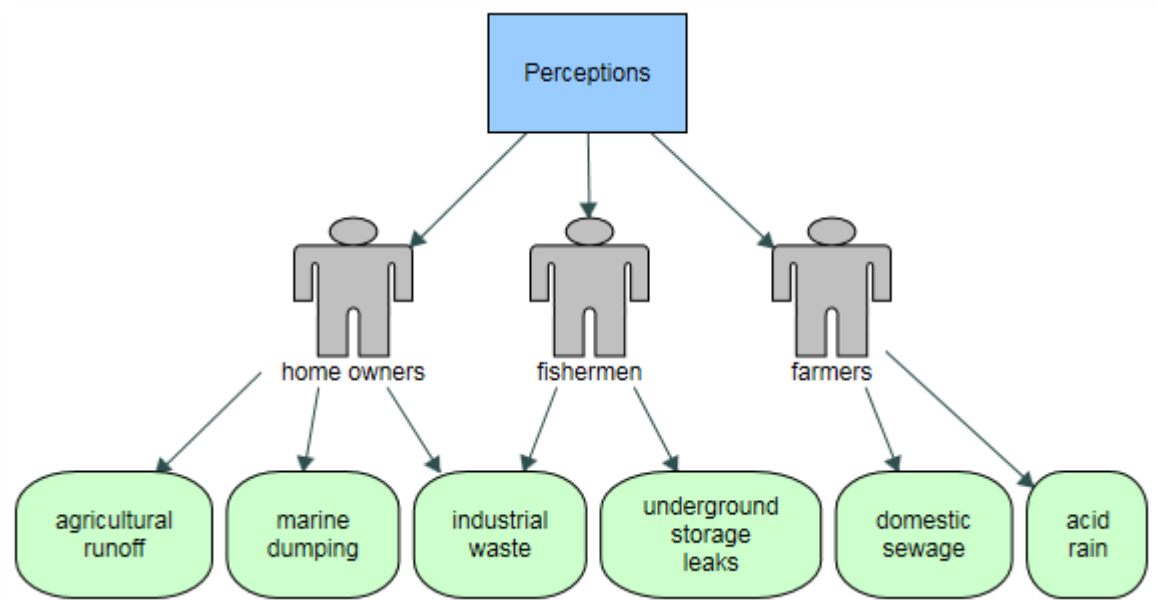
Building maps

Unlike diagrams (that NVivo builds for you), maps allow you to construct the visualization yourself. Create maps at any stage of your project—from developing your research question, through analysis and developing theory to presentation of results

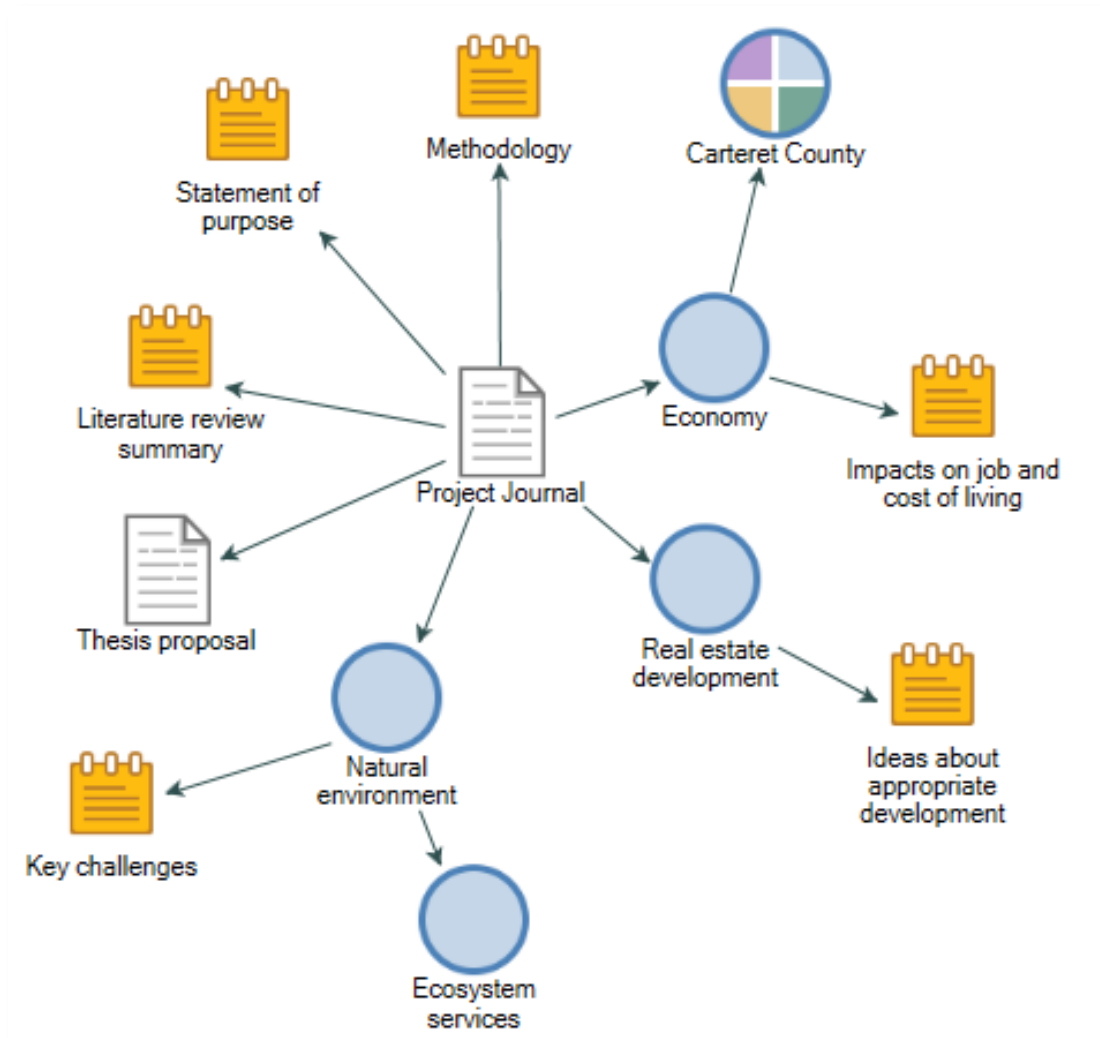
- **Mind map:** Brainstorm ideas and visualize your thoughts. Once you've created a mind map, you can automatically turn your ideas into theme nodes.



- **Concept map:** Define concepts, think through their connections and explore and present the connections in your theories:



- **Project map:** Create a project map to visualize the connections between project items. For example, you could see which items are connected to a particular source:





Create reports and extracts

As your project grows you can use reports to:

- Review and revise your progress
- Identify themes that are occurring more than others
- Present your findings

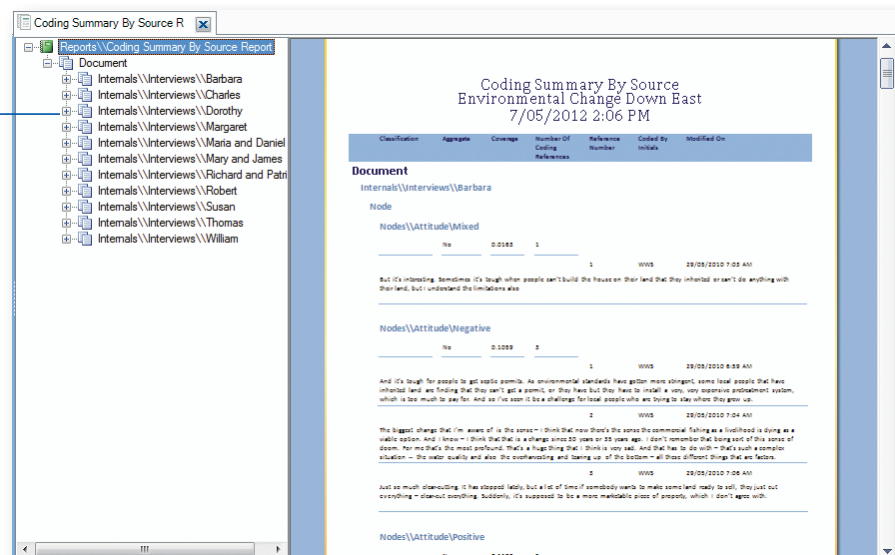
Extracts allow you to export a collection of your data to a text, Excel or XML file—you can use this data for complementary analysis in other applications.

To run one of NVivo's predefined reports:

1. In Navigation View, click **Reports**, and then click the **Reports** folder.
2. In List View, double-click the report you want to run.

The report results are displayed in Detail View:

Use this view to navigate through the items in your report



To create your own report—on the **Explore** tab, in the **Reports** group, click the **New Report** image. Follow the steps in the Report Wizard to choose the fields, filters and layout of your report. You can also create your own report (or modify an existing one) using the Report Designer—refer to the [NVivo Help](#) for more information about working with reports.





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