For relative URLs, the starting / should be replaced with the base URL to transform it to `http://example.com/image.jpg`. For this transformation, we initially find out `baseurl` by parsing, and then in every URL that starts with /, we replace it with `baseurl`:

```
"s|^/|$baseurl/|" /tmp/$$.list
```

Then, a `while` loop is used to iterate each line of the list and download the images by using `curl`. The `--silent` argument is used with `curl` to avoid extra progress messages from being printed on the screen.

See also

- The *A primer on curl* recipe in this chapter explains the `curl` command
- The *Basic sed primer* recipe in this chapter explains the `sed` command
- The *Searching and mining *test* inside a file with grep* recipe in this chapter explains the `grep` command

Web photo album generator

Web developers commonly design photo album pages for websites that consist of a number of image thumbnails on the page. When thumbnails are clicked, a large version of the picture will be displayed. However, to do this, many images are required. Afterwards, copying the `<img>` tags, resizing the image to create a thumbnail, placing them in the `thumbs` directory, and so on, is a real hurdle. As with any repetitive task, this can be automated easily by writing a simple `bash` script. By writing a script, we can create thumbnails, place them in exact directories, and generate the code fragment for `<img>` tags automatically in few seconds. This recipe will do exactly this.

Getting ready

We can perform this task with a `for` loop that iterates every image in the current directory. The usual Bash utilities such as `cat` and `convert` (from the Image Magick package) are used. These will generate an HTML album, using all the images, to `index.html`.

How to do it...

Let's write a Bash script to generate an HTML album page:

```
#!/bin/bash
#Filename: generate_album.sh
#Description: Create a photo album using images in current directory

echo "Creating album.."
```

```
mkdir -p thumbs
cat <<EOF1 > index.html
<html>
<head>
<style>

body
{
  width:470px;
  margin:auto;
  border: 1px dashed grey;
  padding:10px;
}

img
{
  margin:5px;
  border: 1px solid black;

}
</style>
</head>
<body>
<center><h1> #Album title </h1></center>
<p>
EOF1

for img in *.jpg;
do
  convert "$img" -resize "100x" "thumbs/$img"
  echo "<a href=\"$img\" ><img src=\"thumbs/$img\" title=\"$img\" /></
a>" >> index.html
done

cat <<EOF2 >> index.html

</p>
</body>
</html>
EOF2

echo Album generated to index.html
```