**Video Script: Section 6 Video 1 – Introducing Shiny**

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| No. | Description | Action on screen | Narration |
| 1 | Introduction  (Outcome and why it is desirable)  This should give the viewer an idea of the outcome of the task at the beginning of the videos and set the stage and expectations of the viewer. | Refer to PPT | In this video, we are going to introduce the R package ‘shiny’ for easily creating interactive webpages from R |
| 2 | Context(Problem/Solution)  Present the viewer with a real-world solution and how the situation would pose as a challenge. It always helps to draw the viewer's attention using a use-case. Metadata template can be used here. |  | You’ll see how you can use R to produce interactive graphs in a webpage, which can then be used with any browser, making it easy to share even with people who are not familiar with using R. |
| 3 | Guidance (How to do it and how it works): |  |  |
| 4 |  |  | The overhead of turning static graphs into interactive graphs is negligible considering what you get in return. |
| 5 |  |  | Before we dive into the details of ‘shiny’, let’s run an example. |
| 6 |  | Open RStudio | First, we need to install shiny. |
| 7 |  | In the console:  install.packages("shiny")  the package installs. | Open R and run the command:  install.packages("shiny"), or use the install package button in the package panel.  Note that you only need to do this once. |
| 8 |  | In the console:  library(“shiny”)  runExample(“01\_hello”)  On the screen:  Listening on Port 8100 | Next let’s run an example. Open Activity\_06\_01 , load the package and run the shiny command  library(“shiny”)  runExample(“01\_hello”) |
| 9 |  |  | By running the example, we have created a small local webserver which hosts our interactive page. |
| 10 |  | Go to web browser and play with interactive graph.  A description... | A web browser opened with an interactive histogram  .  / |
| 11 |  | Move the slider. | The graph changes as you move the number of samples on the slider, from 1 to 1'000.  On top of the interactivity, which we didn't have before, the advantage of a webpage is that anyone with access to this page can use it, even if they don’t have R installed. |
| 12 |  | Back to RStudio. Stop the process. | To stop the server, go back to RStudio and stop the command by using the stop button. |
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| 16 | Conclusion:The video concludes by showing the viewer that the goal has been achieved, and reminding them why they should be happy about that. A PowerPoint summary slide with the key points emphasized would make it easier for the viewer to remember what was covered in the video | Back to PPT | In this video, we have installed the R package 'shiny' and saw it generating a webpage with an interactive graph, written in pure R.  In the next video, we’ll learn the structure of a shiny app. . |