

Web development with R

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Web applications are becoming increasingly important in offering software to the user. The main advantage above classical client-based software is that new or improved applications can easily be made available to a wide audience. Furthermore web applications are by design server-based, and therefore make more efficient use of resources and are easier to maintain. R is a particularly suitable back-end for web applications. A user-friendly graphical interface reduces the barrier for many researchers, and R's high computing requirements would benefit greatly from a scalable environment. Furthermore R integrates nicely with databases and latex, and which opens the door for online data management, data sharing and reporting services.

This presentation is meant to give an overview of different approaches, architectures and software that could be of interest when embedding R in the web. We will go over some tools that you can use to connect a HTTPD to R, show their advantages and disadvantages, and illustrate some examples of different projects that have embedded R in web applications. Furthermore, the speaker will share some of his personal experiences and vision for the future.

References

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