

Developing Multi-Device and Multi-Platform Mobile Scientific Apps and Pages: Android to HTML5

Just like the rest of the public, scientists are doing more and more of their computing on the go everyday. Mobile devices are currently being used to communicate with colleagues, find and review new papers, and even manage calculations on supercomputers. However, there are still a lot of exciting scientific mobile applications waiting to be written (e.g. Materials Genome Database Apps, ALS X-Ray Data Booklet apps and HPC Simulation Apps). In this talk, we describe the process of creating native applications for Android/iOS as well as creating mobile web applications with the HTML5 jquery-mobile framework. We discuss an example Android application (arXiv mobile) and an example mobile web application (m.nersc.gov) and describe the pros and cons of each approach.

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