|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Time** | **Master Branch** | **Amy’s Branch** | **Bill’s Branch** | **Dexter’s Branch** | **Notes** |
| t0 | We the people |  |  |  | Starting with a fresh master copy of the unfinished preamble. |
| t1 | We the people | We the people | We the people | We the people | Developers download master copy and create their own branches |
| t2 | We the people | We the people  In order | We the people  to form | We the people  to eAt  bonEs? | Developers work on their own branches |
| t3 | We the people | We the people  In order | We the people  to form | We the people  to eAt  bonEs? | Amy downloads the most recent master branch and merges her changes locally. |
| t4 | We the people  In order | We the people  In order | We the people  to form | We the people  to eAt  bonEs? | Amy uploads her branch and she or Greg merges her branch into the master copy |
| t5 | We the people  In order | We the people  In order | We the people  In order  to form | We the people  to eAt  bonEs? | Bill downloads the most recent master branch (which has Amy’s changes incorporated) and merges his changes locally. |
| t6 | We the people  In order  to form | We the people  In order | We the people  In order  to form | We the people  to eAt  bonEs? | Bill uploads his branch and he or Greg merges his branch into the master copy |
| t7 | We the people  In order  to form | We the people  In order | We the people  In order  to form | We the people  In order  to form/to eAt  bonEs? | Dexter downloads the most recent master branch (which has Amy’s and Bill’s changes) and merge, but the merge fails: The merging processor (Git, in our example) will recognize that Dexter’s change does not merge cleanly. This is a crucial reason why it is imperative that developers download the Master branch contents and try to merge before trying to upload their branch; this prevents Greg from running into the merge conflict (and regression test failures). |
| t8 | We the people  In order  to form | We the people  In order | We the people  In order  to form | We the people  In order  to form  bonEs? | Dexter fixes his local copy so he can merge properly and then upload his branch. |
| t9 | We the people  In order  to form  bonEs? | We the people  In order | We the people  In order  to form | We the people  In order  to form  bonEs? | Dexter uploads his (now fixed) branch and he or Greg merges his branch into the master copy |