

## Update policy and tools for Linux

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Linux User Meeting  
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## > Currently: SL6/Salad, SL6/Puppet

- Auto-updates except kernel and kernel modules
- Groups can ask for another configuration (e.g. no auto-update at all)

## > Currently: Ubuntu

- Everything in auto-updates
- Groups can ask for another configuration (e.g. no auto-update at all)

## > Problem: SL: Kernels are sometimes/often very old (and potentially vulnerable)

- ... e.g. we see some 2011 kernel in the wild

## > Problem: Ubuntu: When something does not work (recall the Ubuntu/AFS problems?), it directly hits users, without safety brake

## > Problem: Inconsistent software on homogeneous cluster



## > Future:

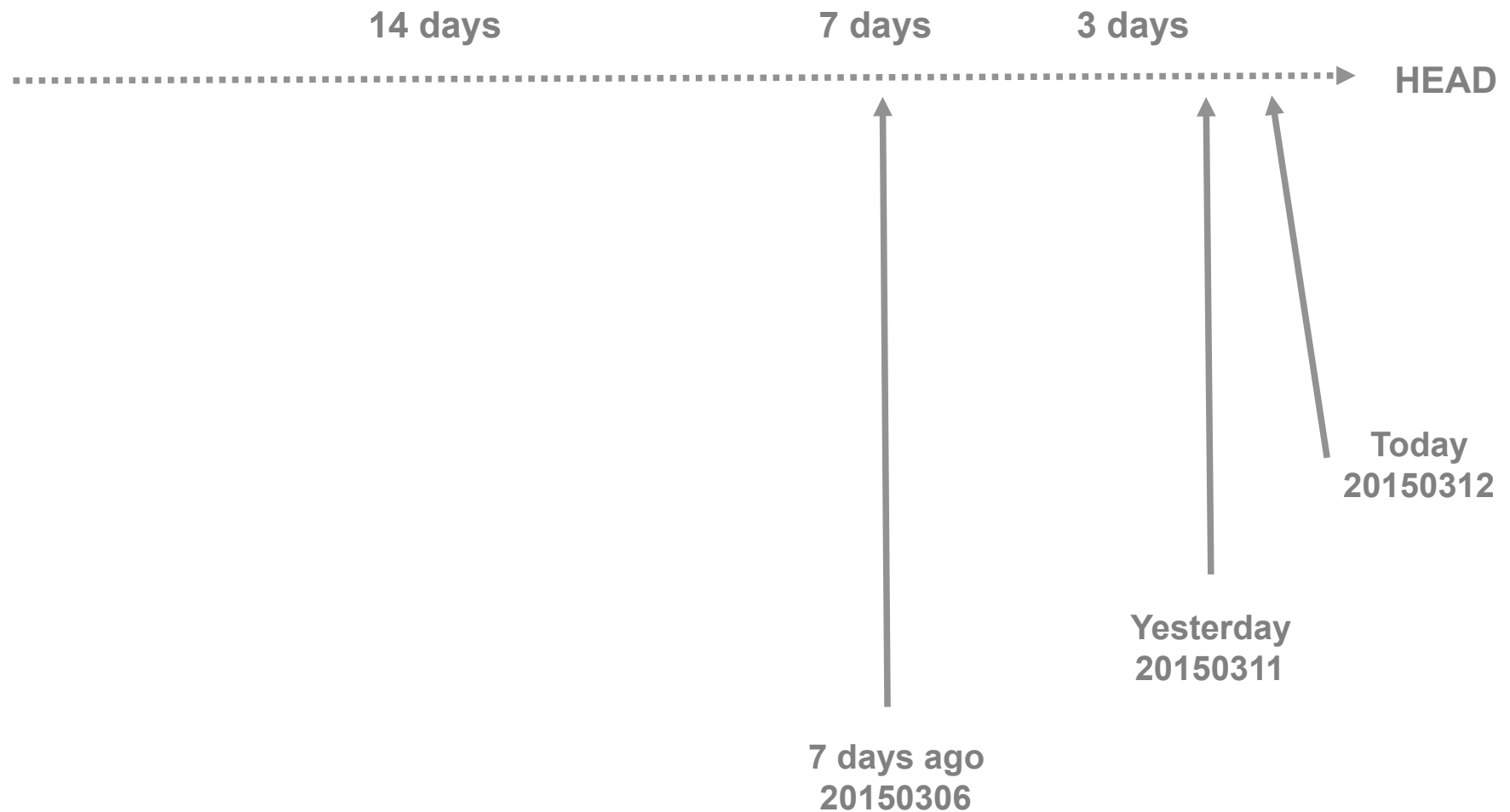
- Everything is in auto-update, incl. kernel and kernel modules
- Groups can ask for another configuration (e.g. no auto-update at all)
- Introduce different repositories to enable auto-updates with configurable delay to catch errors

## > Note:

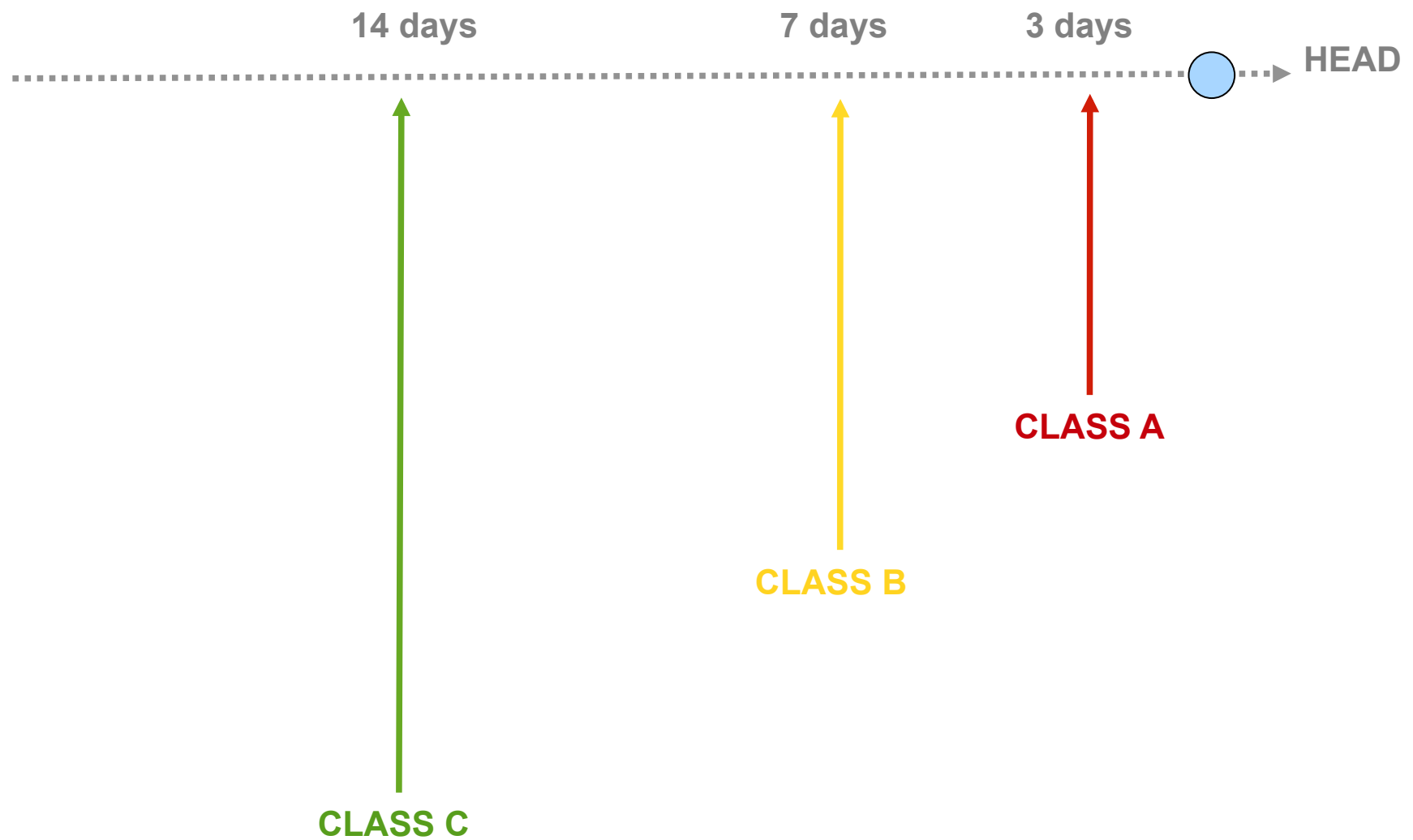
- “Timeline repositories” are in use at Zeuthen since some time
- Good experience
- Needed some more features in HH, but basically the idea remains the same



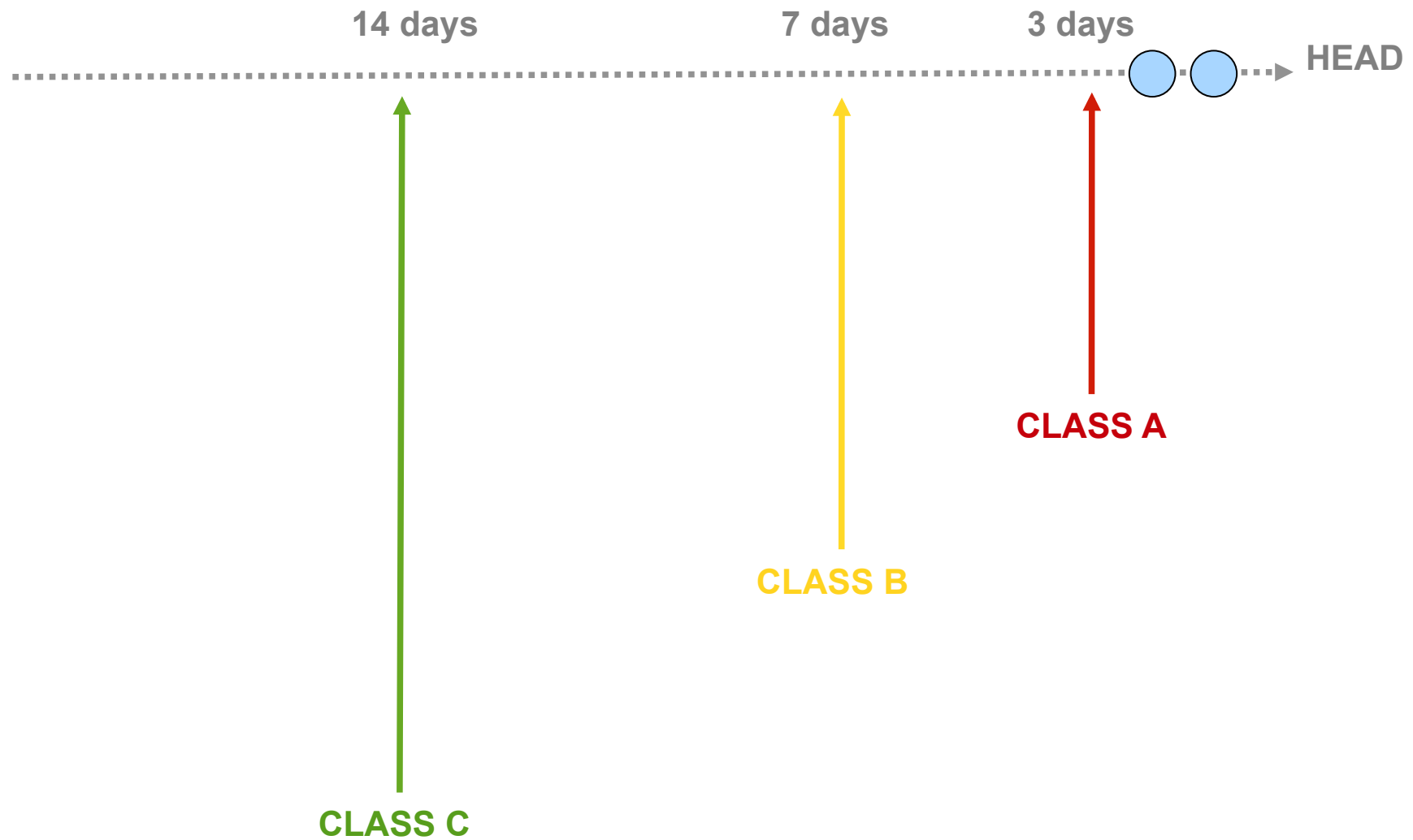
# Repository Timeline



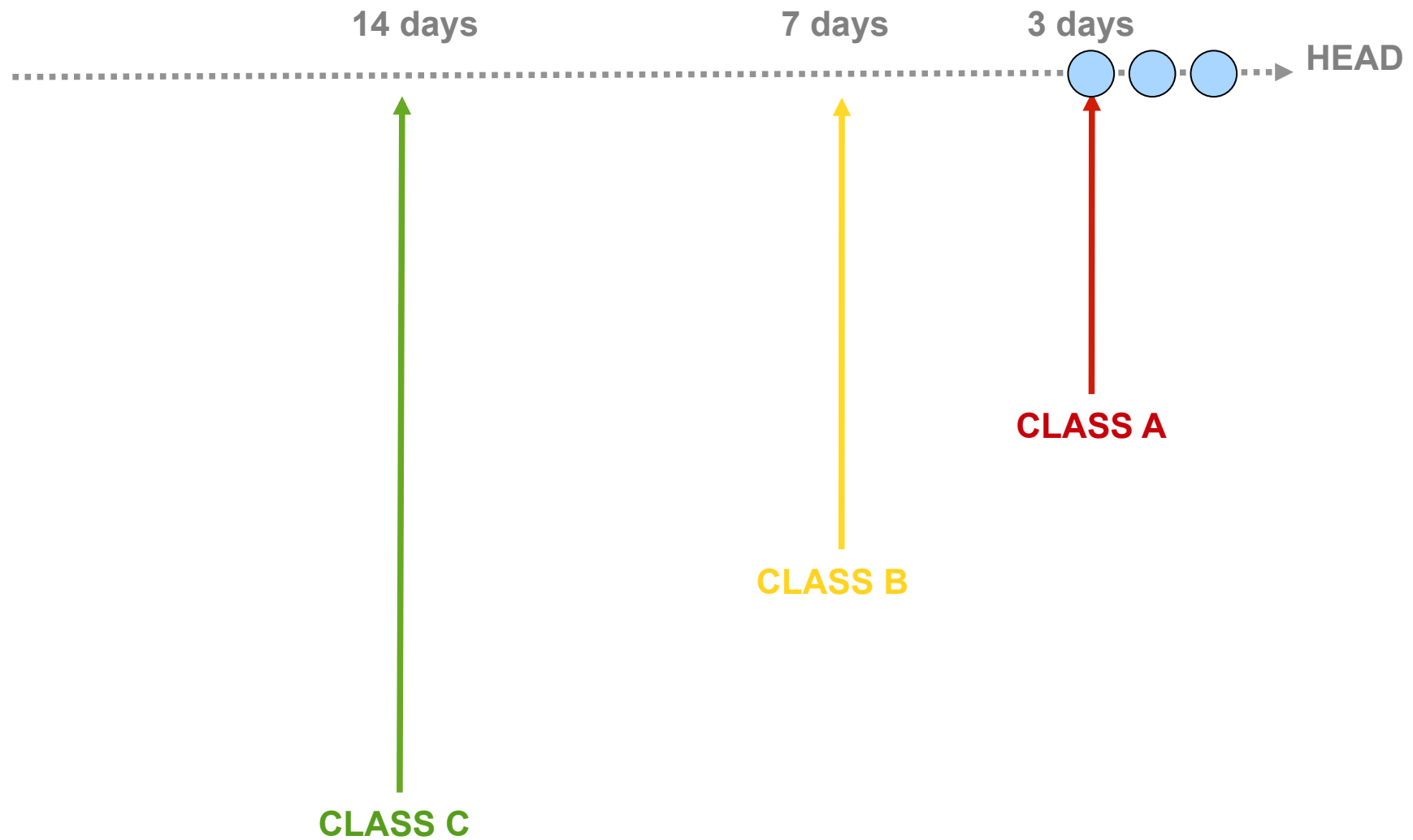
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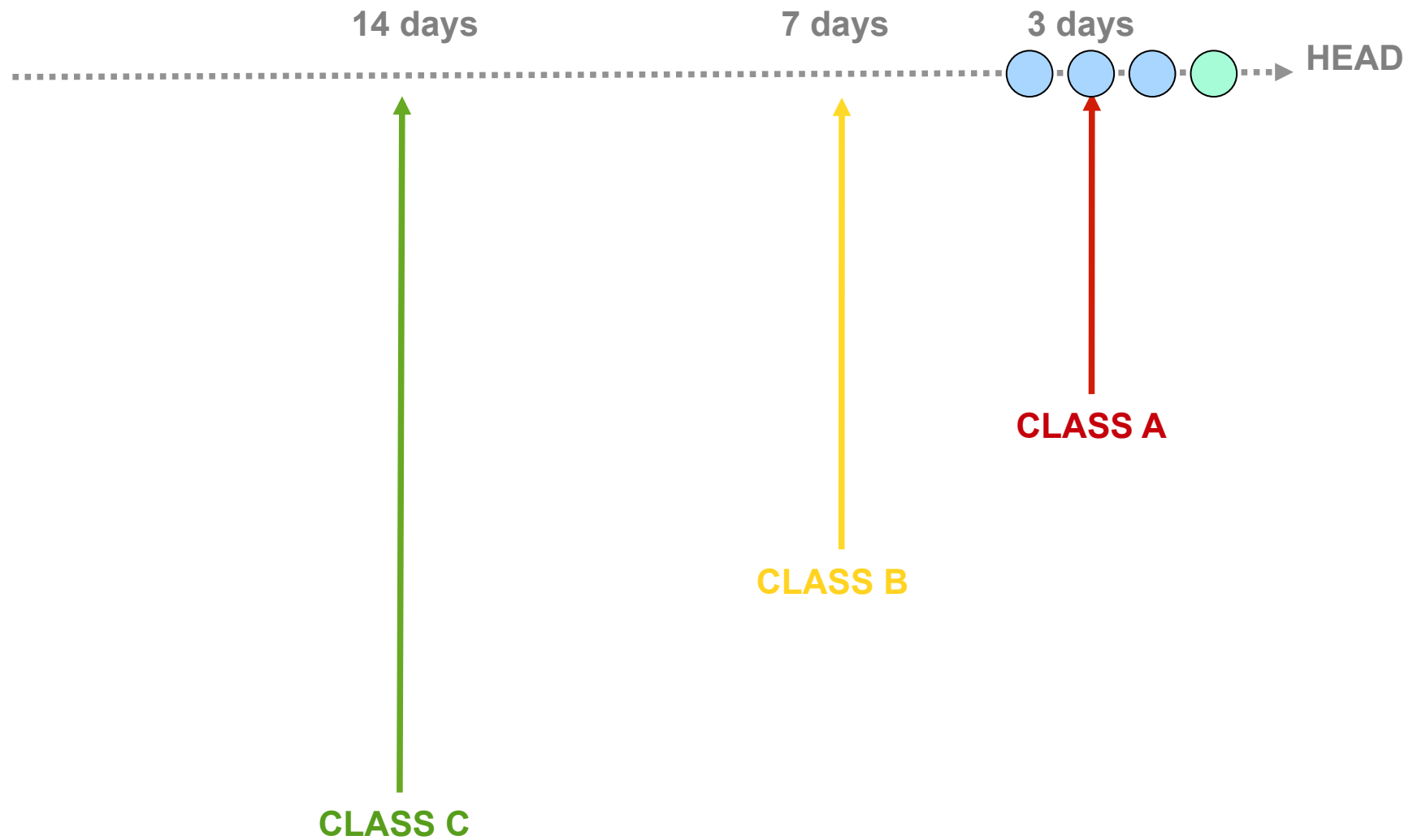
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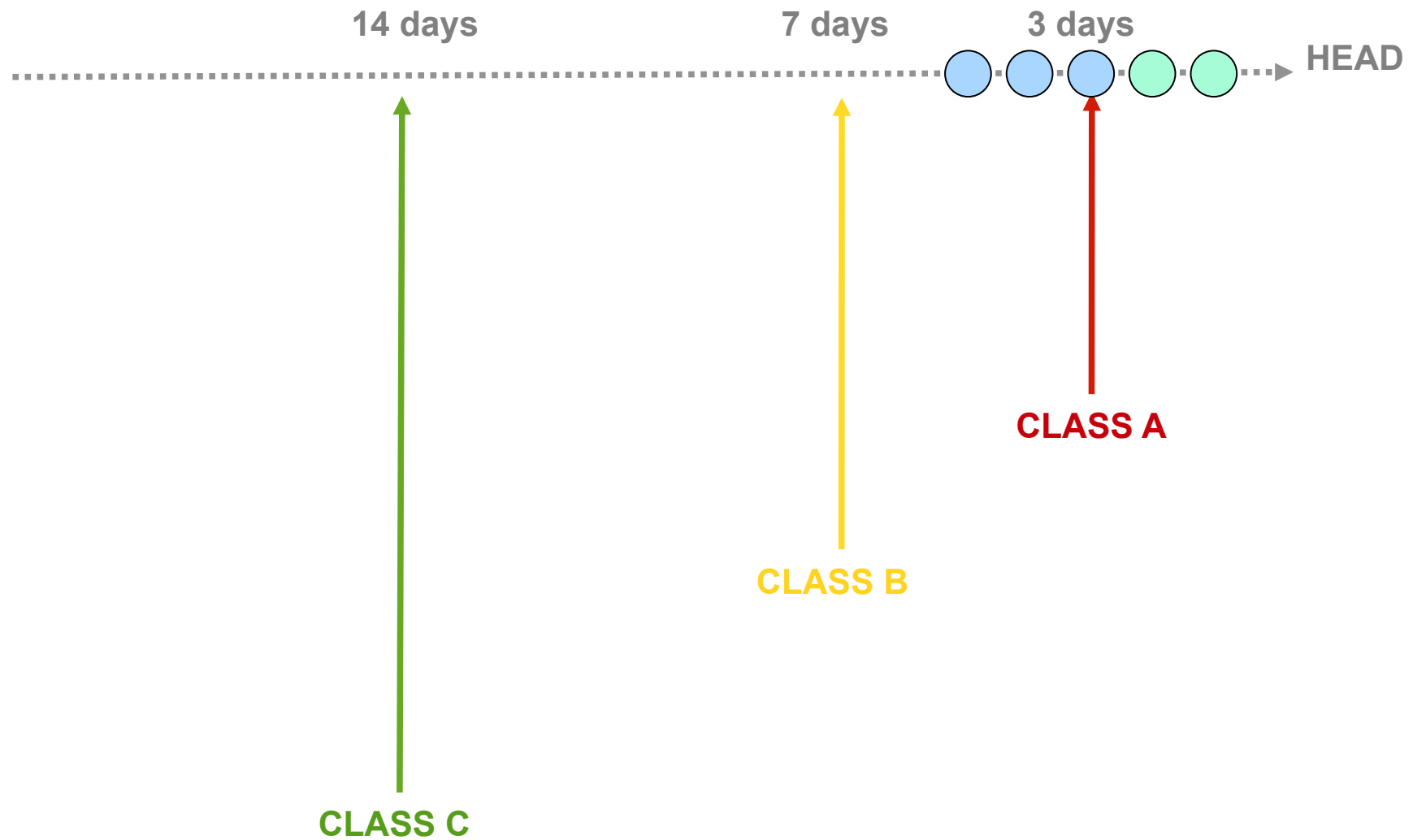
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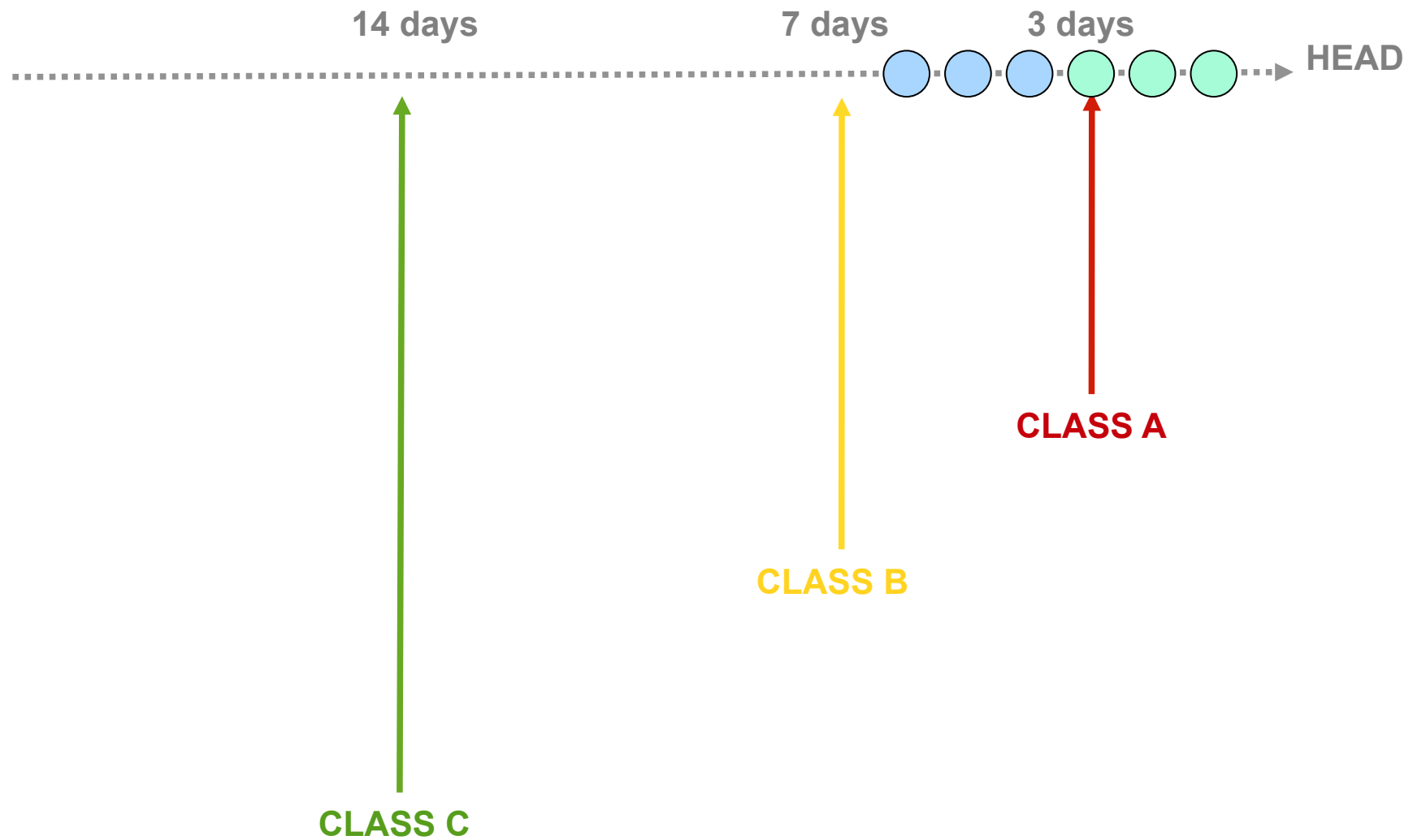
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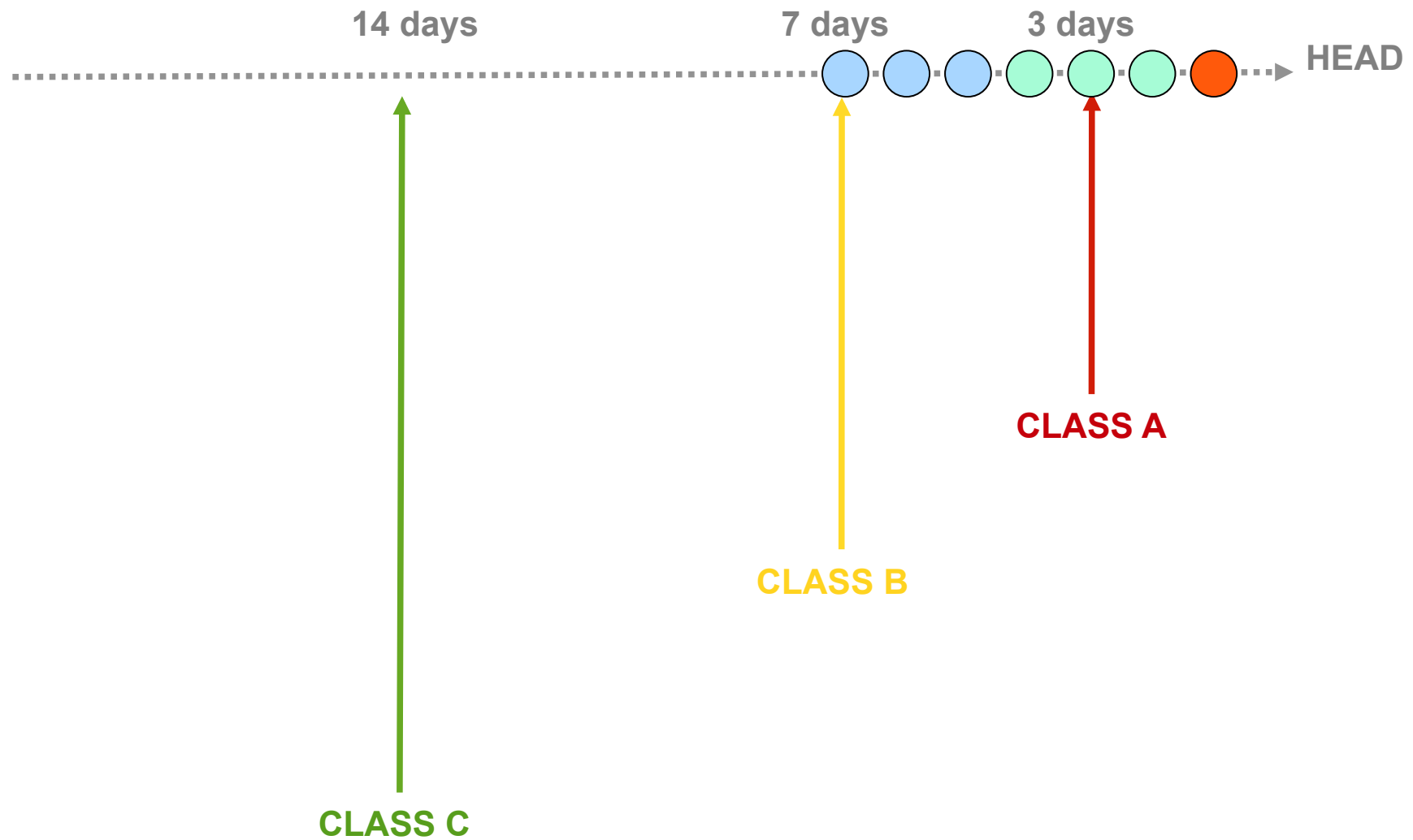
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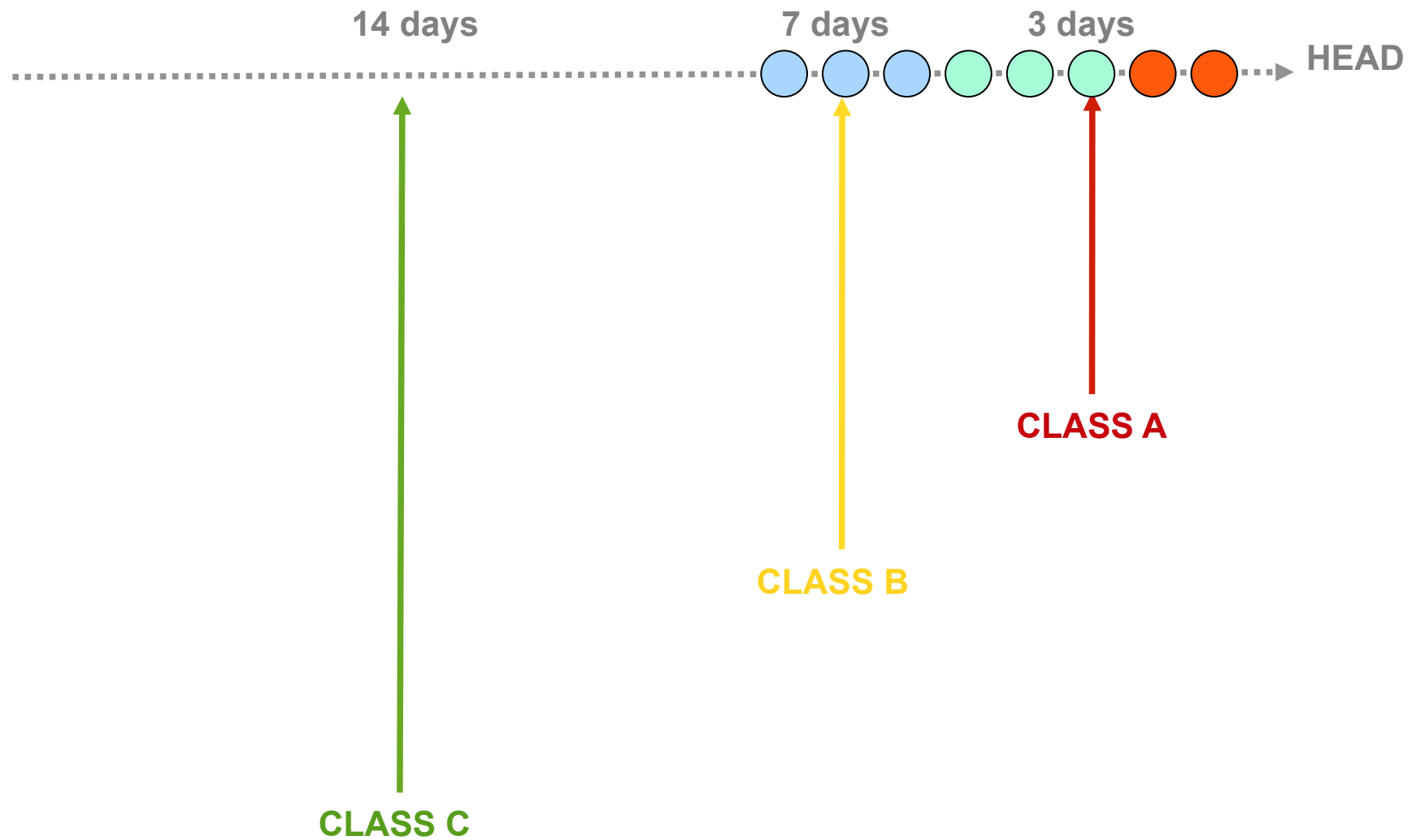
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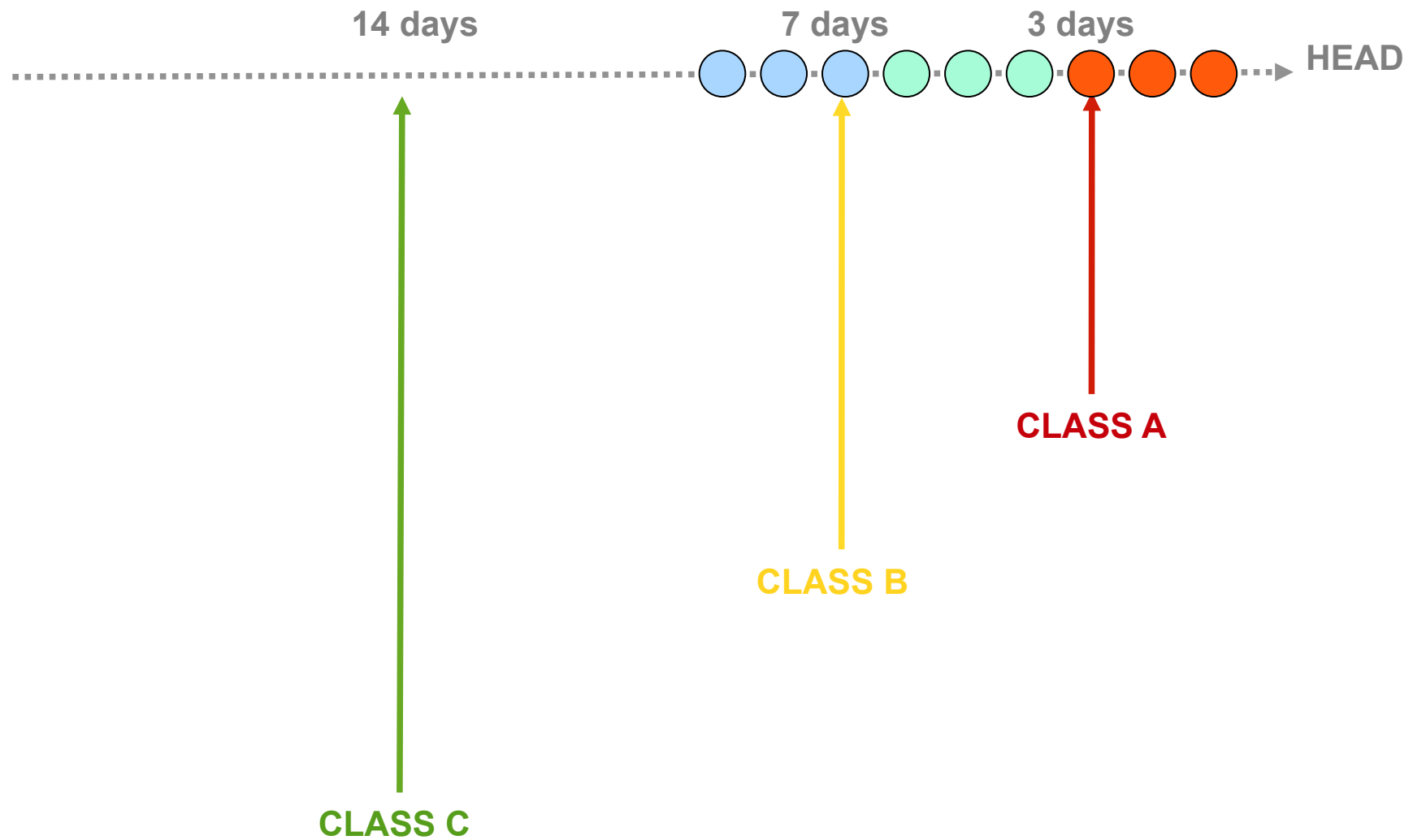
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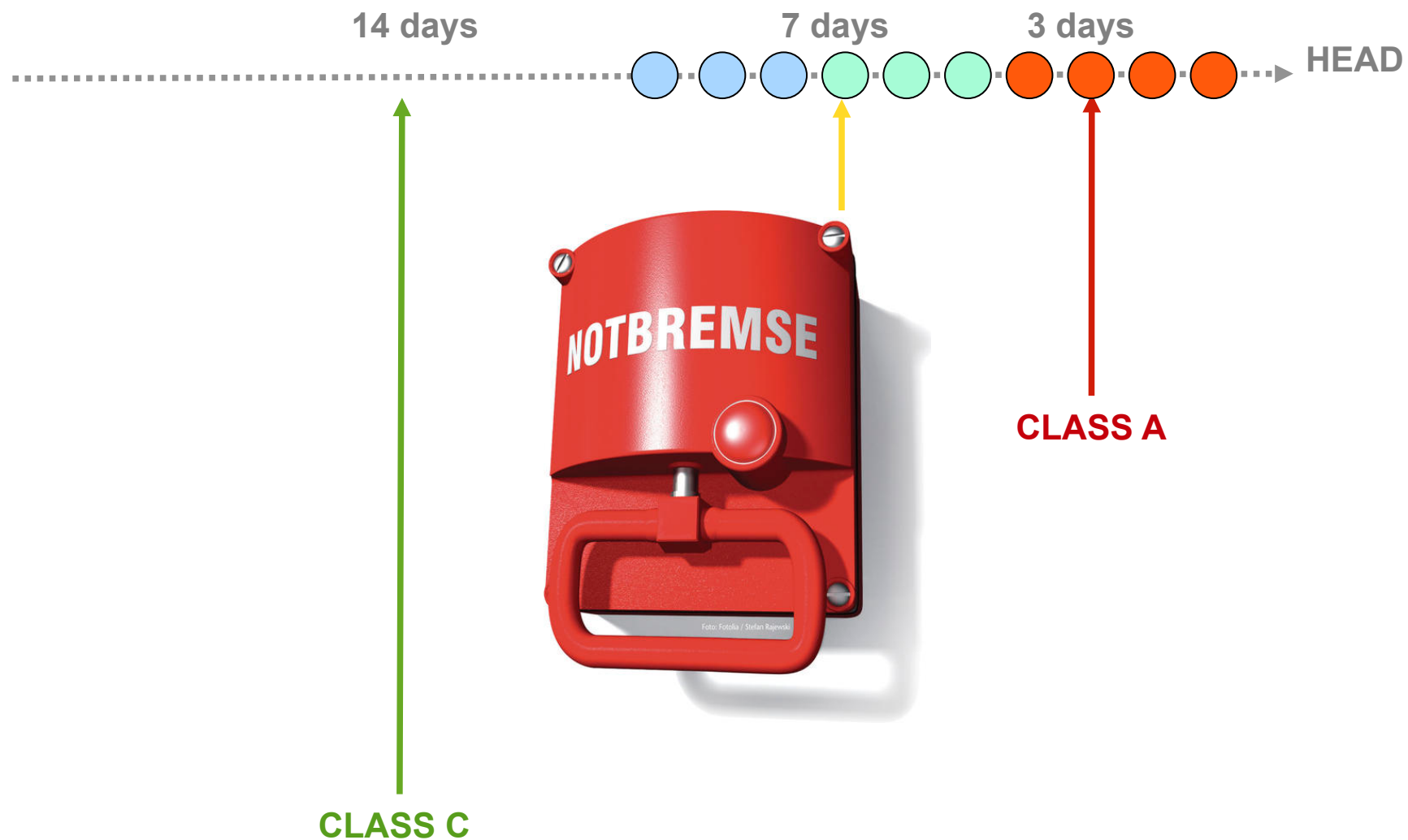
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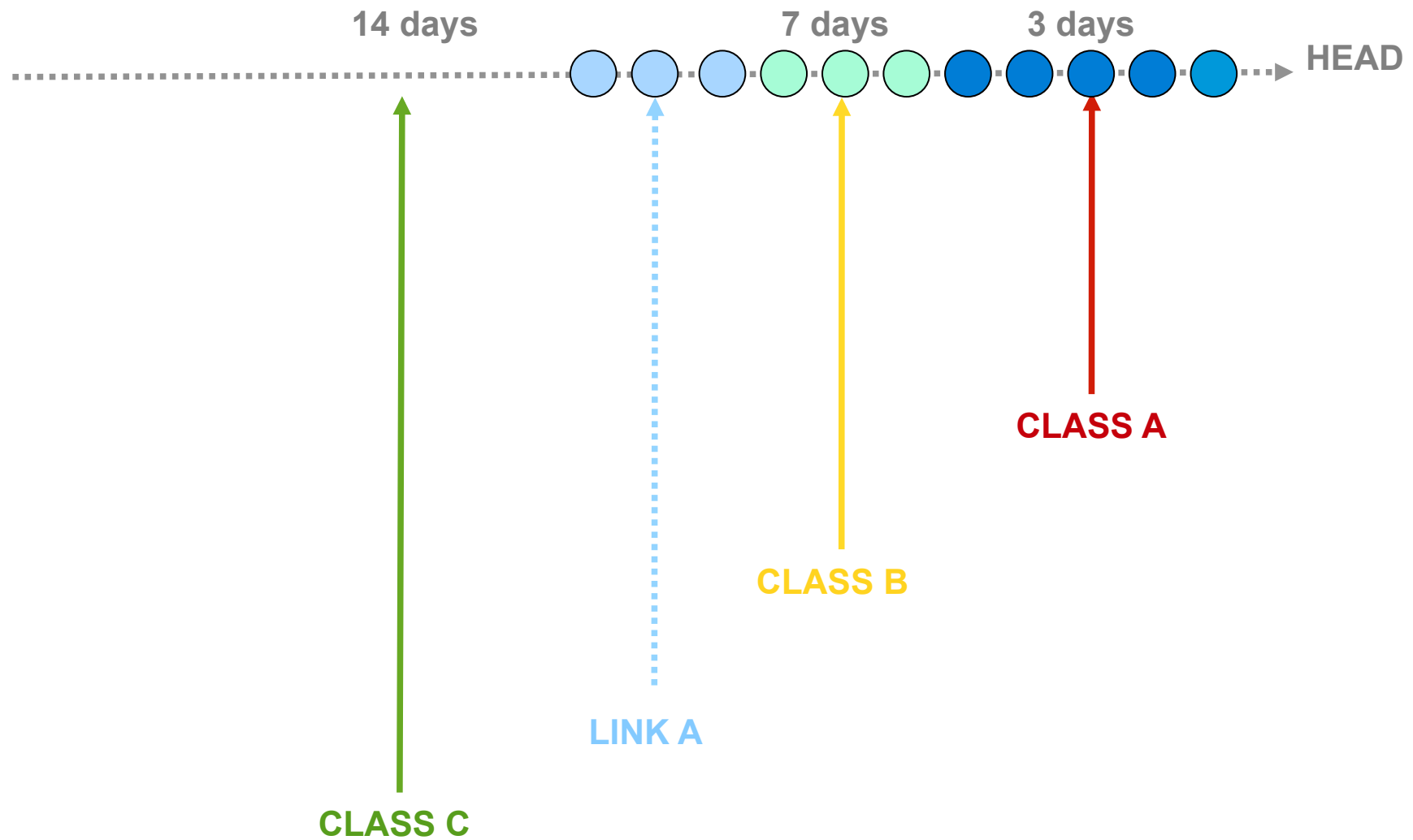
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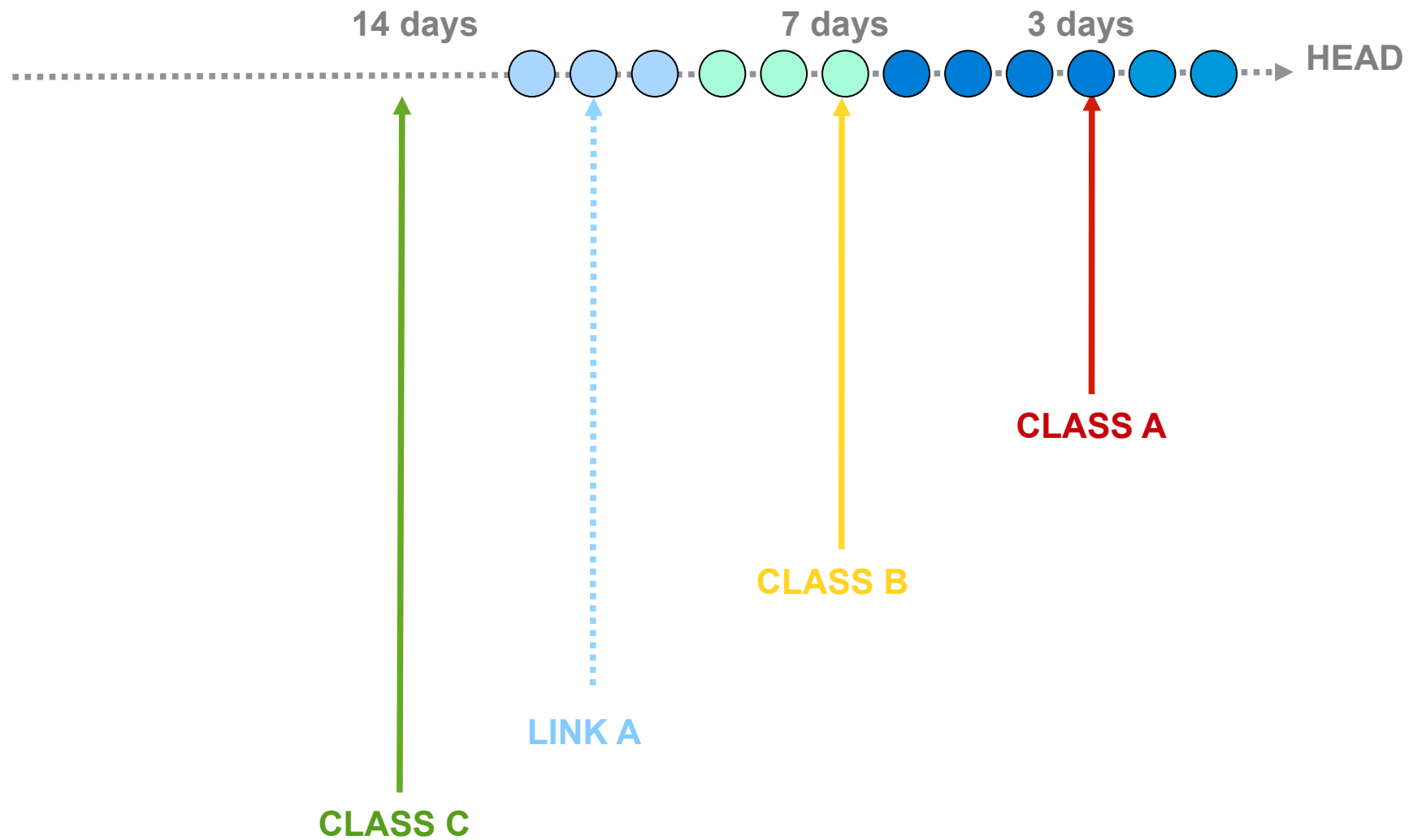
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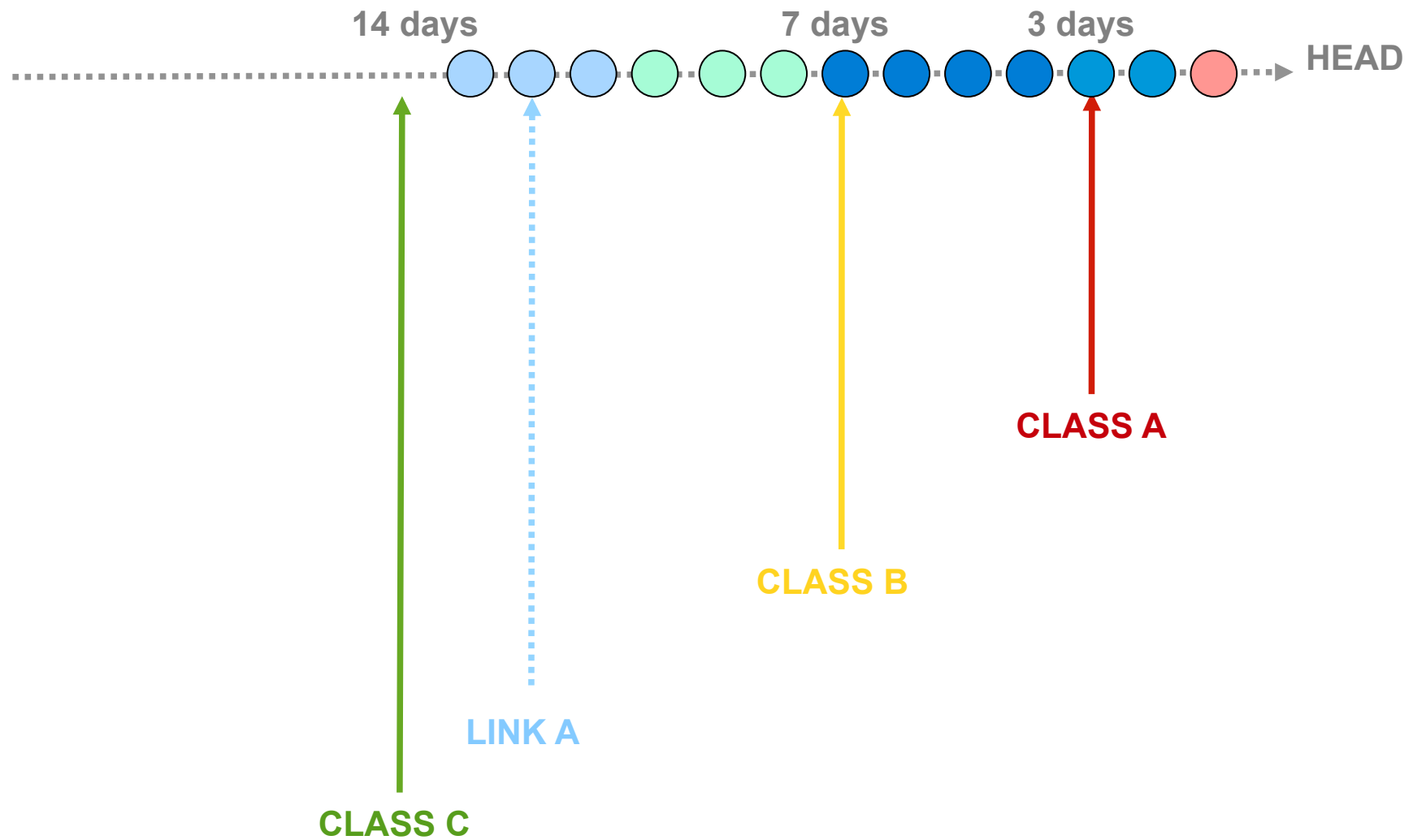
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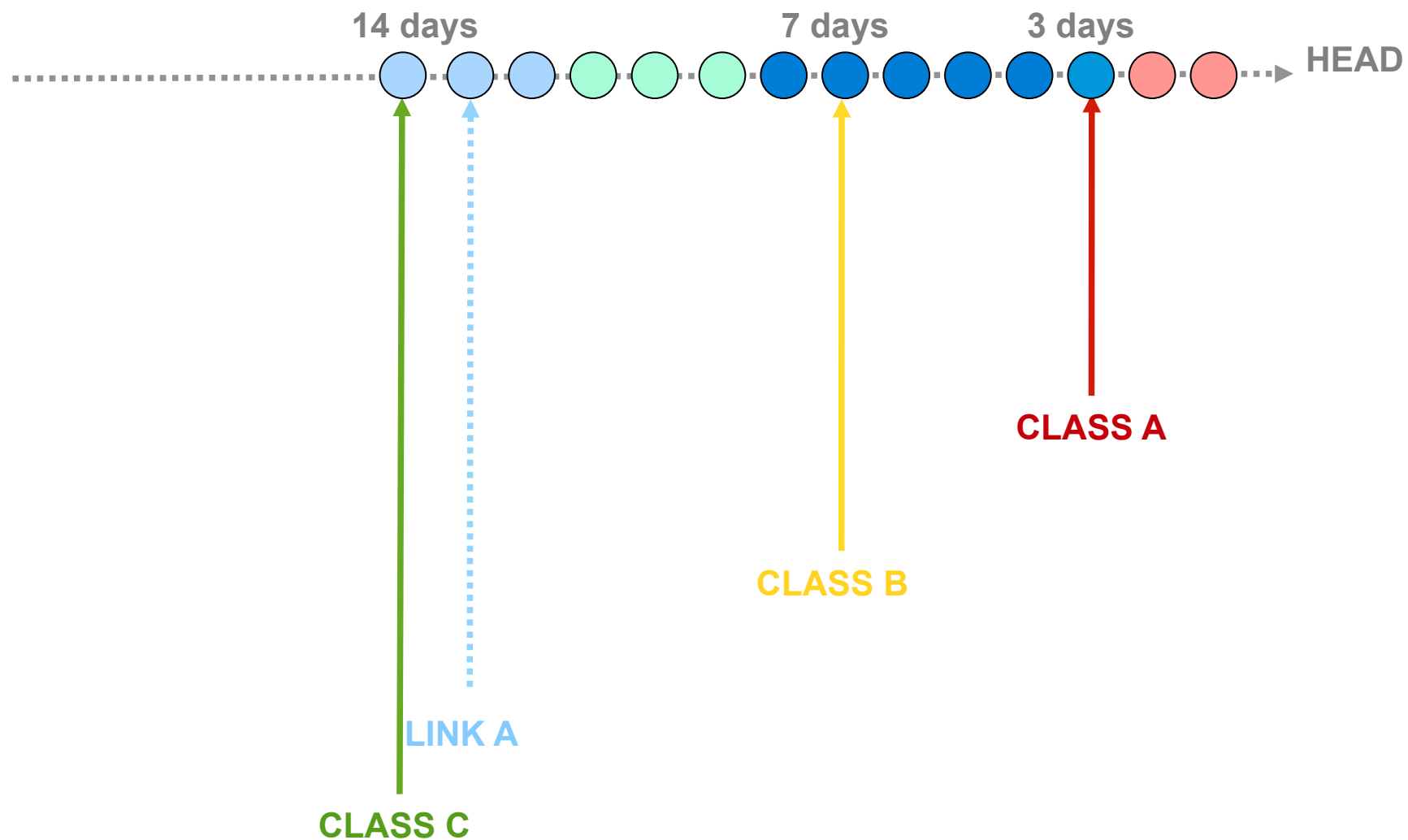
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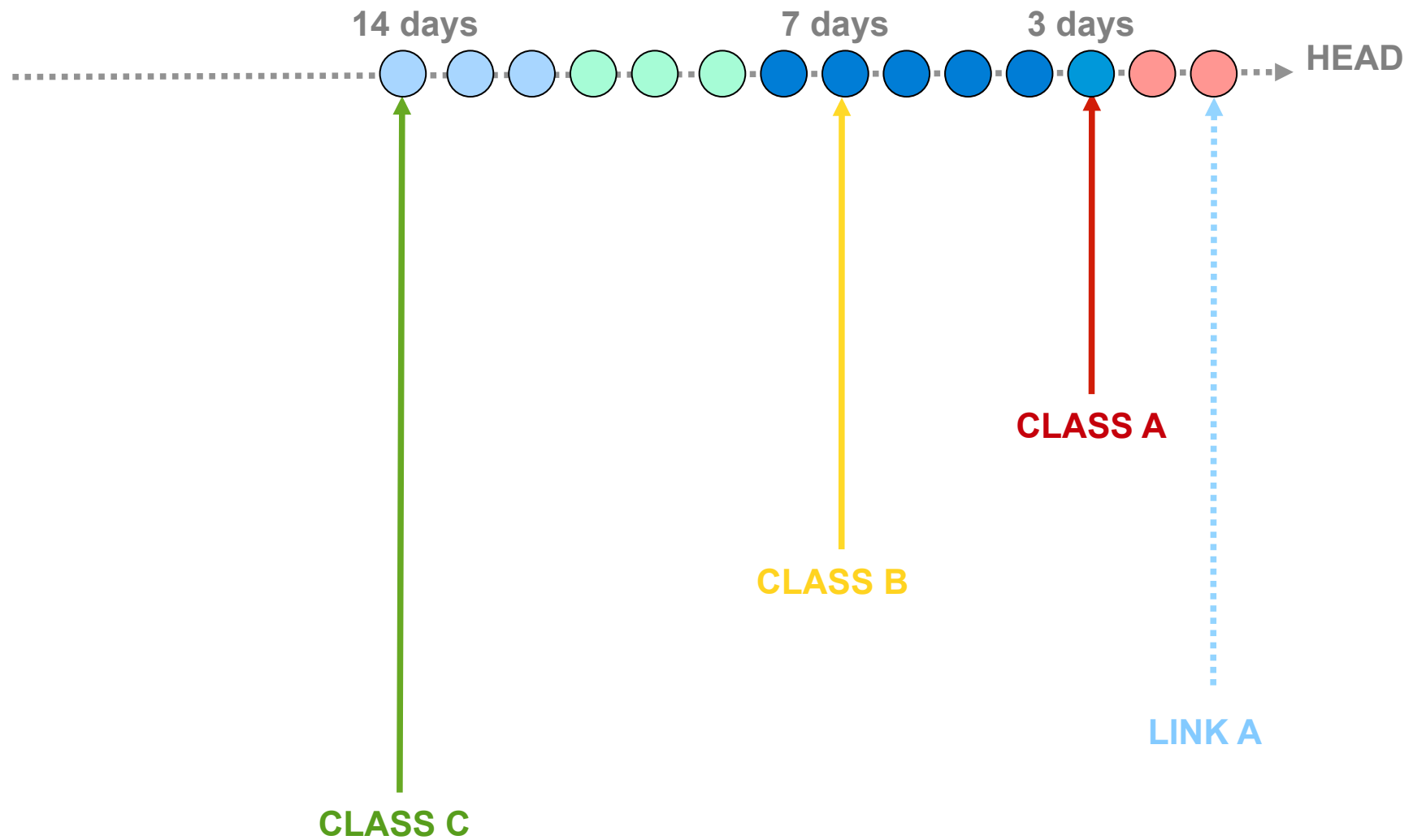
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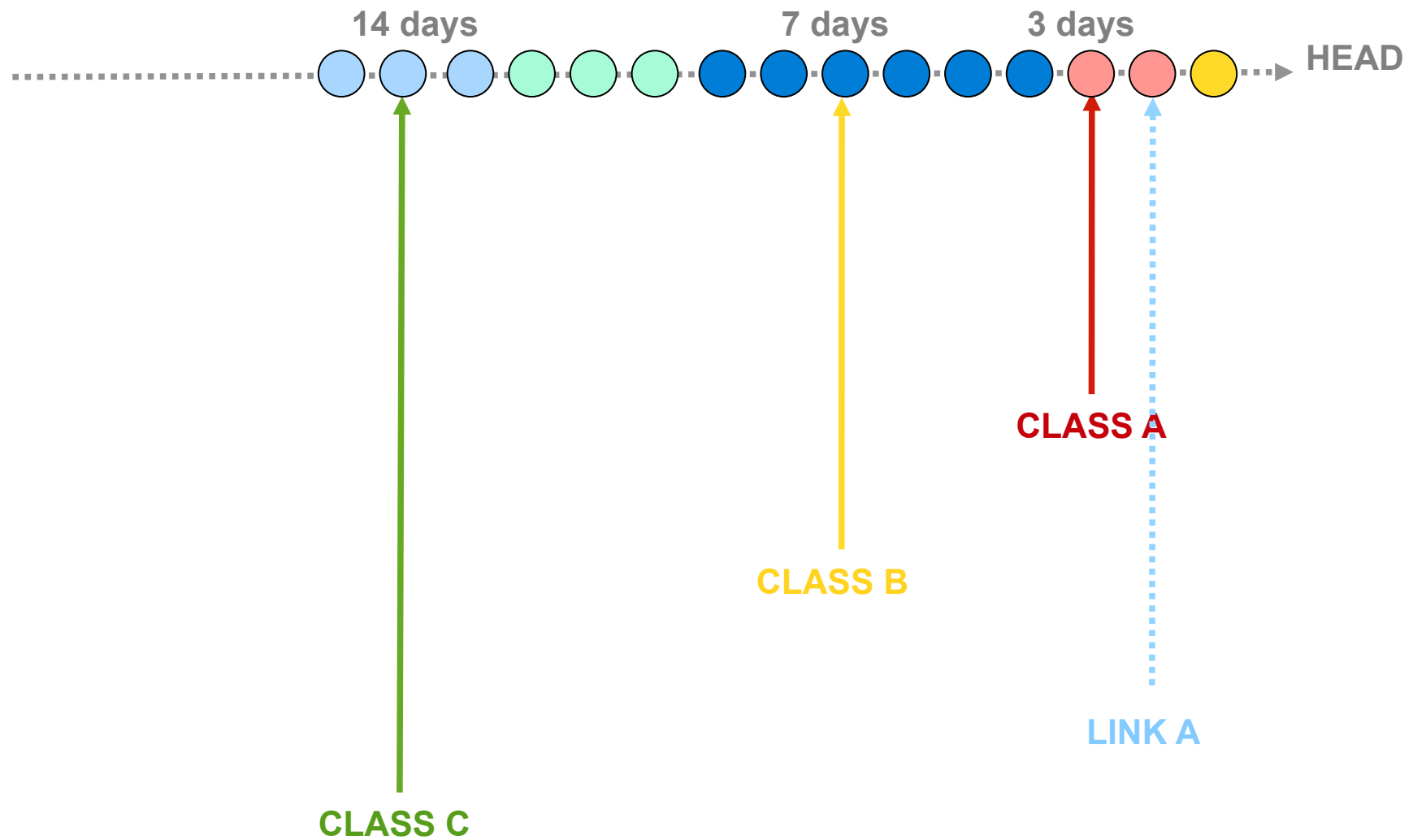
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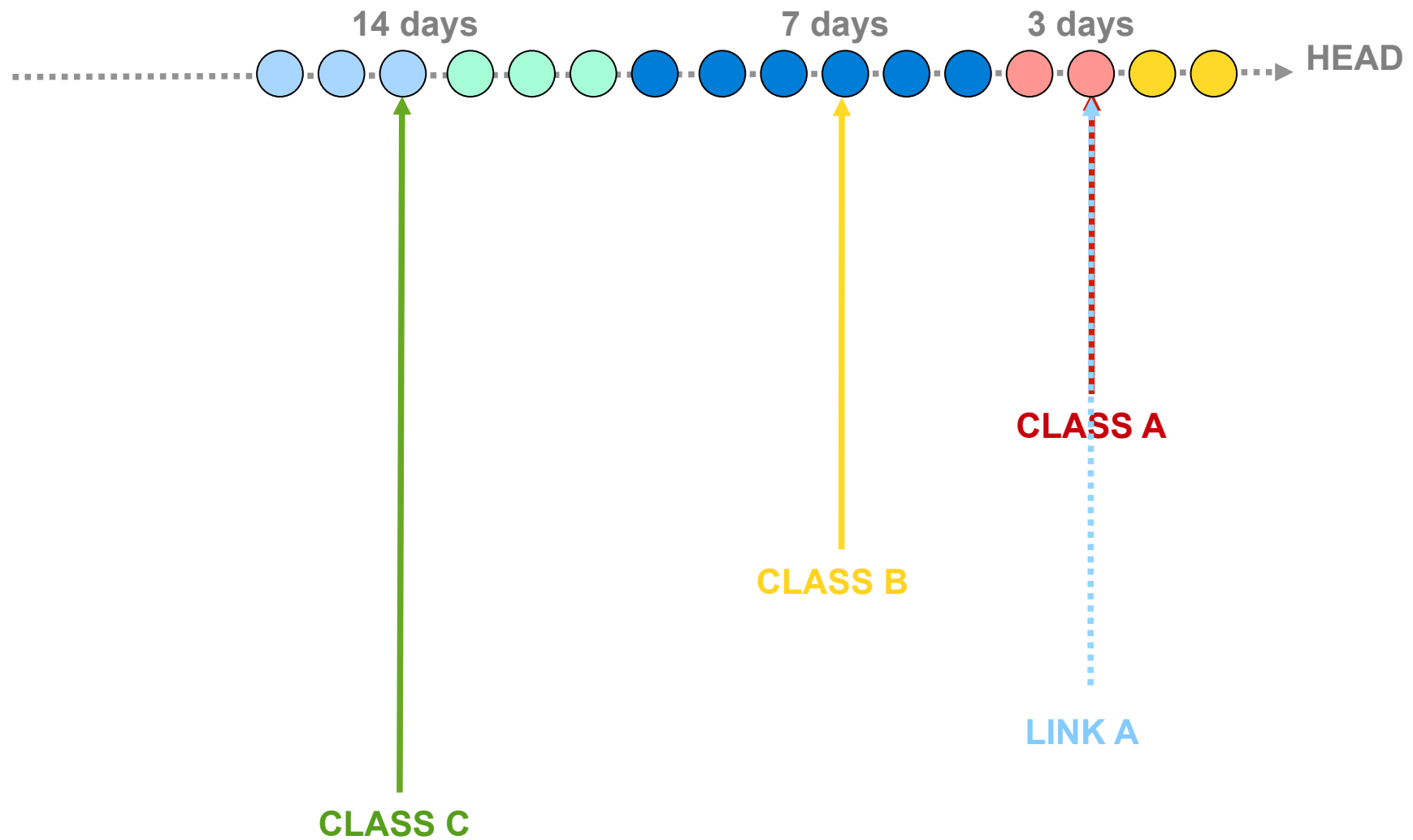
# Repository Timeline



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# Status

- > Currently working in test phase for SL6/EL7
  - Only systems group can steer currently
- > Ongoing work to repeat this for Ubuntu
  - Repo structure more complicated
- > IT will have some systems in “head” or “3day offset” repo ... so we will catch some/most/all common problems for these systems (desktops e.g.)
- > Other groups now have the opportunity for production/testing machines
  - E.g. Production with “7day offset”, testing with “3day offset” ... and continuous tests!
- > Or when working with fixed repository links:
  - Update test systems N days before maintenance slot to snapshot\_XYZ ... and test
  - Update production systems to snapshot\_XYZ during maintenance slot



## Next steps

- > Finish tool for Ubuntu
- > First test within IT
- > Before a larger deployment: Further announcement in CUC and coordination with large user groups / group admins

