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### Rebasing (left) vs. Merging (right)

\includegraphics[width=0.5\textwidth]{rebase-3}
\includegraphics[width=0.5\textwidth]{rebase-1}

* Rebasing ensure your commits apply cleanly on a (remote) branch

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**\alert{Never rebase published code!}**

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## More Cool stuff

### Shell Integration

* [Git Completion](https://github.com/bobthecow/git-flow-completion/wiki/Installation)

\vspace{-1em}
\bbegin{Colored PS1}

* bash: integrate `__git_ps1()` function in your `PS1` variable
  - normally part of the `bash-completion` package
  - See integration in the [ULHPC/dotfiles](https://github.com/ULHPC/dotfiles)
  \cmd{export GIT_PS1_SHOWDIRTYSTATE=1 \hfill \textit{\# you probably want}

* zsh: [agnoster theme](https://github.com/robbyrussell/oh-my-zsh/blob/master/themes/agnoster.zsh)
  - [Mac OS instructions](http://www.dotnet-rocks.com/2015/05/07/setting-up-git-on-mac/)

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* On CentOS/Redhat, you have to source the correct file
\cmd{\n -s /usr/share/git-core/contrib/completion/git-prompt.sh /etc/profile}
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**\alert{Never rebase published code!}**

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## Using Git over Subversion Repository

### [Git-svn](http://git-scm.com/docs/git-svn): using Git with Subversion

\gitcommand{git svn clone [-s] <svn-url> \hfill \textit{\# checkout an SVN repository}}

* '-s': standard SVN layout with `trunk/`, `branches/` and `tags/`
* clone into `master` -- you **shall** work in another branch \hfill _Ex_: `work`
  \cmd{git checkout -b work}

  - delegate all interactions with SVN repository with `master`
  - thus make all your (local) commits into the `work` branch

...

\gitcommand{git svn rebase \hfill \textit{\# fetch revisions from SVN and rebase}}

* __Important__: always do that from the `master` branch!
  \begin{cmdline}
  \promptline{(work)}{git checkout master}\
  \promptline{(master)}{git svn rebase}\
  \end{cmdline}

### [Git-svn](http://git-scm.com/docs/git-svn): commit to Subversion

\gitcommand{git svn dcommit \hfill \textit{\# create an SVN revision for each commit}}
\hfill \alert{AFTER you sanitize the 'master' branch!}

\begin{cmdline}
\only<1>{\promptline{(work)}{git checkout master}\
\promptline{(master)}{git svn rebase}}
\end{cmdline}
```

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