

# Git

Characteristic	Description
Non-linear Development Support	<ul style="list-style-type: none"><li>• Rapid <b>branching</b> and <b>merging</b>.</li><li>• Specific tools for <b>visualizing</b> and navigating development history.</li></ul>
Distributed Development	<ul style="list-style-type: none"><li>• <b>Local copy</b> of the full development history and changes.</li><li>• Changes then can be merged as a locally developed branch.</li></ul>
Existing Systems Compatibility	<ul style="list-style-type: none"><li>• Repositories can be <b>published</b> via well-known protocols.</li></ul>

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Efficient Handling of Large Projects	<ul style="list-style-type: none"><li>• Very <b>fast</b> and <b>scalable</b>.</li></ul>
Cryptographic Authentication of History	<ul style="list-style-type: none"><li>• A <b>commit</b> depends upon the complete development history.</li><li>• Changing old versions is <b>always noticed</b>.</li></ul>
Toolkit-based Design	<ul style="list-style-type: none"><li>• Designed as a set of programs written in C, and several shell scripts.</li><li>• Easy to <b>chain</b> the components together.</li></ul>