

Compare for Yourself Plastic SCM vs CVS

Plastic SCM vs CVS

By design, Plastic SCM speeds and secures software development, supporting Agile and Parallel methodologies in both local and distributed environments. For development teams of five or 500 members, comprising developers, partners and vendors, Plastic SCM is a robust and affordable Software Control & Configuration Management system, delivering enterprise-class functionality to maximize collaboration efficiency throughout the software development lifecycle. CVS is a limited functionality version control tool for teams with low process needs. As such, CVS cannot increase development productivity and improved workflow. CVS does not provide real parallel development because it does not support a task-based development. By comparison, Plastic SCM is the next generation SCM system which helps development teams develop code faster, discover problems sooner, deliver higher quality and distribute product rapidly.

Parallel Development (Branching and Merging)

Plastic SCM is designed for efficient and stable branching and merging with the innovative and proprietary XMerge and XDiff technology. Plastic SCM branches are first class objects; branching is simple and effective. The Plastic SCM GUI makes branch management easy and provides increased productivity for Parallel development with innovative branch Inheritance technology, the Branch Explorer and the unique 3D version tree.

CVS cannot support complex Parallel development, which today is a requirement for companies of all sizes. Creating a branch in CVS requires replication of all metadata on the new file. Changes are extremely difficult to track because CVS does not provide any merge tracking which forces developers to track all changes manually. Additionally, there is no automated conflict resolution for merging files resulting in another cumbersome, error-prone manual process for developers.

Distributed Development

Plastic SCM was designed to operate easily and efficiently in the demanding Distributed environments on laptops, desktops, on the go and in virtual offices or across geographically dispersed sites. Replicating a branch or a repository is simple because Plastic SCM is not tied to a client-server working model - teams have full write access to repositories based upon permissions, allowing changes to be bi-directionally synchronized and reconciled. Developers can also work offline with full use of features and functionality, anytime anywhere. Of course, if a Proxy-based setup is required, Plastic SCM also supports this configuration choice.

CVS does not support remote or Distributed development environments.

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Scalability

Plastic SCM is designed to scale with the requirements of the development team. It includes functionality such as multi-server support which allows any sized company to load balance using as many servers as required for optimal performance. The database back-end is easily configurable and companies can select any of the popular databases for storing Plastic SCM data including: SQLServer, MySQL, Oracle or Firebird depending on needs and corporate standards.

CVS does not provide multi-server support and repositories can only be stored on the file system backend database.

Atomic Check-Ins

Plastic SCM groups every check-in as a list called a "Changeset." The advantages of changesets are that code changes are committed atomically to the server as an all or nothing transaction, Changesets can be easily diff'd to quickly review a check-in list which is particularly useful for code reviews, and Changesets can be merged to "share" a particular change between branches.

CVS does not have an atomic change mechanism and cannot group changes to include all related files. As a result, if some of the files involved in a check-in operation are rejected, the codebase is left in an inconsistent and potentially corrupted state.

Visualization

Plastic SCM offers a wide variety of visualization tools to increase performance and provide a clear, detailed view of the project at any stage including the: 3D version tree, branch explorer, statistic tool, code review tool, three way merge tool, etc.

CVS does not provide any visualization tools.

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| Connectivity | <ul style="list-style-type: none">• Plastic SCM operates via a single port and file data is compressed in order to increase transmission efficiency, so it is well-suited for remote operation via the internet or VPN.• CVS operation requires a failsafe LAN connection for all clients. Offline operation is not supported. |
| Multiplatform | <ul style="list-style-type: none">• Plastic SCM supports Windows, Linux and MacOS systems providing a unified look and feel for the entire team.• CVS only runs on Microsoft platforms. |
| Cost | <ul style="list-style-type: none">• Plastic SCM offers a range of per-user and site license options that are affordable and flexible. There are minimal administration costs and a low annual maintenance fee.• While CVS has no license fee, real life case studies have shown that the cost to administer and maintain CVS is high and the rudimentary feature set impedes productivity. Support is difficult as there is no commercial entity maintaining and supporting the product. |
| Evolution | <ul style="list-style-type: none">• Plastic SCM is the next generation SCCM product. It is used by thousands of developers worldwide whose feedback is monitored for new features and functionality to meet their changing needs. Plastic SCM evolves in tune with the market offering new features releases quarterly.• As a non-commercial tool, CVS is not professionally maintained, updated or supported to optimize product growth and productive usage. |

***Plastic SCM is the next generation SCM system which allows development teams to:
Develop code faster • Discover problems sooner • Deliver higher quality • Distribute product rapidly.***

Visit www.codice.com software today to download a free trial!