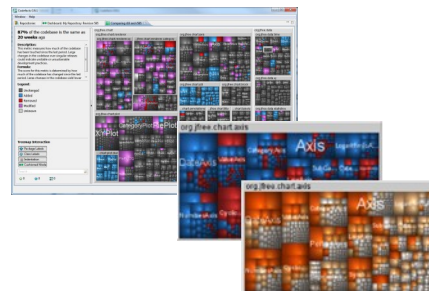


# CODEFACTS ASSESS THE HEALTH OF YOUR CODEBASE



fetch source,  
extract history,  
analyze,  
visualize

... in a single click



... details on demand

## Key Features

Multi-faceted analysis to measure all aspects of your development health

Single-click analysis, all you do is provide the address to your source control system

Automated version control data mining to uncover hidden development facts

Look at the full history of your codebase, starting with the very first source commit

Intuitive, beautiful visualizations on demand for when you need the details

Generate reports to disseminate the results easily with your whole team

## Need

Software systems are increasingly becoming complex. Windows NT 4.0, developed in 1996, was 12 million lines of code. Windows XP—developed a mere 5 years later—was 40 million lines of code. With every generational leap in software development our ability to steer the complex development of these systems is exponentially getting weaker. Current approaches to assessing the state of a software project are focused on specific measurement areas leaving the assessment process in a largely manual and time-consuming state. A new breed of software development analysis tools is needed to keep development costs under control and maintain quality.

## Solution

**CodeFacts** analyzes your target codebase using a multi-faceted approach to form a holistic health assessment. Key metrics are run to measure *Development Stability*, *Code Quality*, *Documentation Practices*, and *Team Activity*.

Single-click analysis, all you have to provide is the address to your repository. Measurements are displayed in a dashboard providing both at-a-glance assessment and detailed metrics.

Determine how your codebase has changed between releases in mere seconds.

Track your code quality over time, giving your development team clear, measurable targets to meet.

Determine where documentation gaps exist in your codebase.

Improve your team's cohesiveness by revealing hidden details of your developers' activity and interaction levels.

Detailed, eye-catching visualizations capable of showing your entire codebase in a single picture are available on demand.

## Key Benefits

### Measurable assessment:

- Get a status assessment in minutes
- Faster, more informed decision making
- Focus your efforts where they're most needed

### Single-click analysis:

- Decision makers can assess a project's state without touching a single source file

### Detailed Visualizations:

- A visualization is worth a 1000 words
- See an entire codebase in a single picture

### Integration with SCM:

- Insight into years of development activity
- Find out the Who and When for each piece of code, visually!

## Uses

*Code Audits*      *Software Acquisitions*      *Software Development*  
*Compliance*      *Verification / Accreditation*      *Quality Assurance*

## Questions CodeFacts can help answer:

- ✓ Is the codebase in flux or is it stable and ready for release?
- ✓ What are the quality measures of our source?
- ✓ How well are we documenting the code?
- ✓ What's the team composition and collaboration been like over time?
- ✓ How has the codebase changed since version X?
- ✓ Who are the critical developers on this codebase?

## Users

*IT Auditors / Accreditors*    *CIOs*      *Software Developers*  
*Software Managers*      *Compliance Officers*    *Quality Assurance Analysts*

Auditors and accreditors use it to quantify multiple facets of software development automatically and reliably, generating detailed leave-behind reports for the stakeholders.

Managers assess their codebases evolution over time without touching a single source code file and direct their team on improving measurable aspects.

Developers and analysts use it to pin-point problem areas to better focus their energies on quantifiable results.

## System Specifications

**Data sources:** CodeFacts creates analysis data directly from your source control system.

**Platforms:** CodeFacts runs on either Windows, Mac OS X, or Linux. No special hardware is required.

### About Applied Visions

Applied Visions, Inc. (AVI) develops software products and systems for government and commercial customers.

### About CodeFacts

CodeFacts was developed under a Navy Phase 2 SBIR contract, N68335-09-C-0212. SBIR Data Rights (DFARS 252.227-7018 (June 1995)) apply.

### For Additional Information

Applied Visions, Inc.  
6 Bayview Ave.  
Northport, NY 11768  
Phone: 631-759-3987  
www.avi.com  
CodeFacts@avi.com