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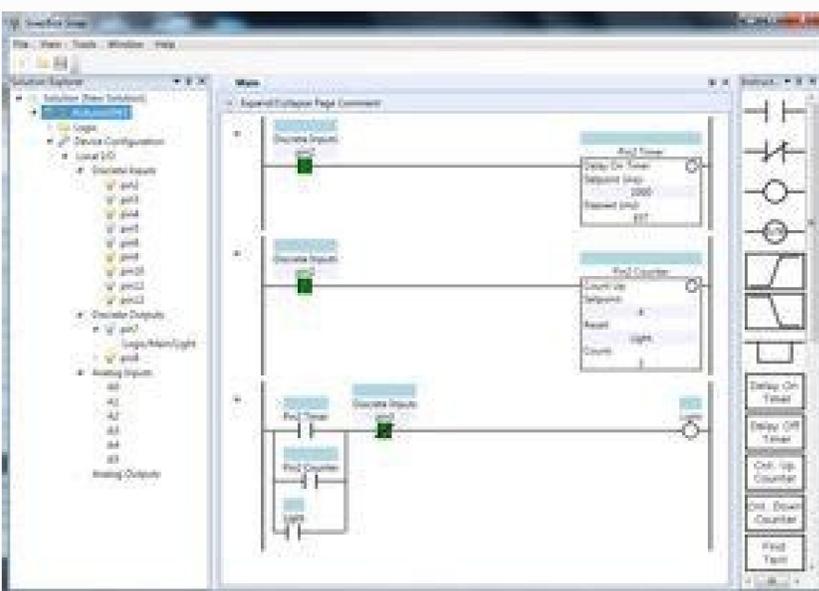
Unleash Your Imagination in Two Dimensions



Jonathan Penn
and Josh Smith

Edited by Rebecca Gulick

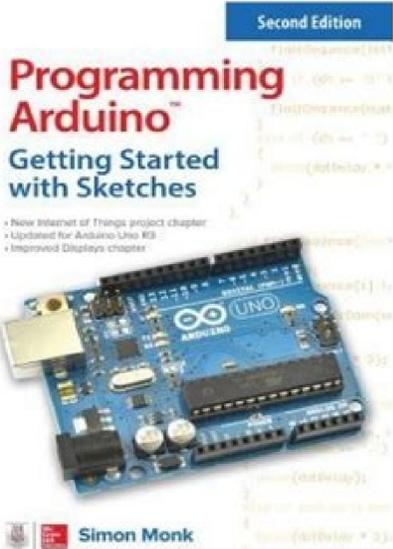
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^ "Release notes 0.15". In August 2004 a US National Institute of Standards and Technology (NIST) report[22] conservatively estimated that \$15.8 billion was lost annually by the U.S. capital facilities industry due to inadequate interoperability arising from "the highly fragmented nature of the industry, the industry's continued paper-based business practices, a lack of standardization, and inconsistent technology adoption among stakeholders".[citation needed] An early BIM standard was the CIMSteel Integration Standard, CIS/2, a product model and data exchange file format for structural steel project information (CIMSteel: Computer Integrated Manufacturing of Constructional Steelwork). ISBN 978-0-7844-1052-3. The BIM Limited. Official website Retrieved from " 2Process used to design and document building and infrastructure designs "BIM" redirects here. 20 (5): 601-9. ^ "License". As FreeCAD (and also LibreCAD) has dependencies on Open Cascade, which prior to version 6.7.0 was only compatible with GPLv2,[11] it couldn't use the GNU LibreDWG library as GPLv2 and GPLv3 are essentially incompatible.[12][13] Open CASCADE technology was contacted by Debian team in 2009, and 2012 got a reply that Open CASCADE technology was considering dual-licensing OCC (the library), however they postponed that move. Expertise concerning the possibility of implementing BIM methodology in Poland" (PDF). Digital Engineering. San Rafael, CA, Autodesk, Inc" (PDF). 3.3.15. ^ "Towards 5D CAD – Dynamic Cost and Resource Planning for Specialist Contractors by William O'Brien". Nationalbimstandard.org. Organisations implement company-specific BIM standards and protocols at best (there are isolated examples of cross-industry alliances).[citation needed] Oceania Australia In February 2016, Infrastructure Australia recommended: "Governments should make the use of Building Information Modelling (BIM) mandatory for the design of large-scale complex infrastructure projects. Archived from the original on 13 May 2016. The official site. FreeCAD itself can also be used as a library by other programs.[6] There are moves to expand FreeCAD in the architecture, electrical, and construction (AEC) engineering sectors and to add building information modeling (BIM) functionality with the Arch Module.[7] As of late 2020, 3D Models searcher of CADENAS called 3DfindIT.com is integrated into FreeCAD.[8] Supported file formats FreeCAD's own main file format is FreeCAD Standard file format (.FCStd).[9] It is a standard zip file that holds files in a certain structure.[9] Document.xml file has all geometric and parametric objects definitions.[9] GuiDocument.xml then has visual representation details of objects.[9] Other files include brep files for objects and thumbnail of drawing.[9] Besides FreeCAD's own file format, files can be exported and imported in DXF, SVG (Scalable Vector Graphics), STEP, IGES, STL (StereoLithography), OBJ (Wavefront), DAE (Collada), SCAD (OpenSCAD), IV (Inventor) and IFC.[10] DWG support FreeCAD's support for the important DWG file format has been problematic due to software license compatibility problems with the GNU LibreDWG library. Retrieved 13 December 2013. ISBN 978-0470590898 Weygant, Robert S. Retrieved 8 April 2016 ^ "Imagining construction's digital future". ^ "Will we have to get used to 'BIM Washing'? ^ "CERL's COBie is National Institute of Building Sciences Approved". Modeling & Simulation-Based Data Engineering: Introducing Pragmatics into Ontologies for Net-Centric Information Exchange by Bernard P. doi:10.1016/0926-5805(92)90014-B. In spite of this, BIM usage was reported by only 22% of respondents to a 2014 survey.[55] In 2019, government officials said BIM could help save up to 20% by shortening construction time, and urged wider adoption by infrastructure ministries.[56] Iran The Iran Building Information Modeling Association (IBIMA) was founded in 2012 by professional engineers from five universities in Iran, including the Civil and Environmental Engineering Department at AmirKabir University of Technology.[57] While it is not currently active, IBIMA aims to share knowledge resources to support construction engineering management decision-making.[58][59] Malaysia BIM implementation is targeted towards BIM Stage 2 by the year 2020 led by the Construction Industry Development Board (CIDB Malaysia). ^ "BIM Institute | Africa's voice for Building Information Modelling (BIM)". ^ van Havre, York (2016). ISBN 978-1-926724-22-5. Forbes, Syed M. Horman" (PDF). It can allow architects and engineers to integrate and analyze environmental issues in their design over the life cycle of the asset.[49] International developments This section needs to be updated. A related resource which describes additional permissions or alternative licenses for a Work which may be available. Archived from the original on 1 March 2014. Building information model of a mechanical room developed from lidar data Building information modeling (BIM) is a process supported by various tools, technologies and contracts involving the generation and management of digital representations of physical and functional characteristics of places. ^ Laiserin, J. Archived from the original on 22 October 2014. ^ "Release notes 0.11 - FreeCAD Documentation". O'Brien. BIM plus. The Ministry of Construction announced BIM as the key application technology of informatisation in "Ten new technologies of construction industry" (by 2010).[50] The Ministry of Science and Technology (MOST) clearly announced BIM technology as a national key research and application project in "12th Five-Year" Science and Technology Development Planning. laiserin.com. structuremag.org. Therefore, the year 2011 was described as "The First Year of China's BIM".[51] Hong Kong In 2006 the Hong Kong Housing Authority introduced BIM,[52] and then set a target of full BIM implementation in 2014/2015. The Government Building Authority bases its processes on BIM in open formats to increase process speed and quality, and all large and several small and medium-sized contractors use BIM. Accessed: 4 September 2015. Construction Manager: BIM+. Archived (PDF) from the original on 5 May 2021. 2020-12-21. Archived from the original on 6 March 2013. You'll be able to download your table data via Google Takeout until March 3, 2020. BIM Task Group. h ^ DECRETO LEGISLATIVO 18 aprile 2016, n. A CDE is used to share data across a project or asset lifecycle, supporting collaboration across a whole project team (the meaning overlaps with enterprise content management, ECM, but with a greater focus on BIM issues). Archived from the original on 30 May 2012. Building Sciences Monthly e-Newsletter. SmartMarket Report. psu.edu. Archived from the original on 5 April 2016. doi:10.1016/j.proeng.2017.04.211. Such problems were initially addressed by Leite and Akinci when developing a vulnerability presentation of facility contents and threats for supporting the identification of vulnerabilities in building emergencies.[47] Dynamic information about the building, such as sensor measurements and control signals from the building systems, can also be incorporated within BIM software to support analysis of building operation and maintenance.[48] There have been attempts at creating information models for older, pre-existing facilities. Norway In Norway BIM has been used increasingly since 2008. Retrieved 29 May 2012. BIM Africa Initiative, primarily based in Nigeria, is a non-profit institute advocating the adoption of BIM across Africa.[113] Since 2018, it has been engaging with professionals and the government towards the digital transformation of the built industry.[114][115] Produced annually by its research and development committee, the African BIM Report gives an overview of BIM adoption across the African continent.[116] South Africa The South African BIM Institute, established in May 2015, aims to enable technical experts to discuss digital construction solutions that can be adopted by professionals working within the construction sector. Archived from the original on 9 June 2020. ^ "IEC 81346-12:2018 Abstract". Retrieved 25 February 2012. doi:10.1016/j.autcon.2010.11.027. Archived from the original on 25 June 2016. Solid Modeling with the Power of Python, Packt Publishing, Birmingham, ISBN 978-1-84951-886-4. austrian-standards.at. Facilitating exchange and interoperability of information in digital format was variously with differing terminology; by Graphisoft as "Virtual Building" or "Single Building Model".[117] Bentley Systems as "Integrated Project Models", and by Autodesk or Vectorworks as "Building Information Modeling".[117] In 2002, Autodesk released a white paper entitled "Building Information Modeling".[118] and other software vendors also started to assert their involvement in the field.[119] [unreliable source?] By hosting contributions from Autodesk, Bentley Systems and Graphisoft, plus other industry observers, in 2003,[20]unreliable source? Jerry Laiserin helped popularize and standardize the term as a common name for the digital representation of the building process.[21] Interoperability and BIM standards As some BIM software developers have created proprietary data structures in their software, data and files created by one vendor's applications may not work in other vendor solutions. Archived (PDF) from the original on 15 September 2020. Messner, Anthony J. librefgraphicsworld.org. 2012 Business Value of BIM in South Korea (English). Singapore The Building and Construction Authority (BCA) has announced that BIM would be introduced for architectural submission (by 2013), structural and M&E submissions (by 2014) and eventually for plan submissions of all projects with gross floor area of more than 5,000 square meters by 2015. Hoboken, New Jersey: John Wiley. ^ "Green-Washing and Cloud-Washing - Terms you must know relative to BIM - Not to mention BIM-Washing". Retrieved 2013-08-22. Archived from the original on 14 January 2016. ^ "The level-2 BIM package". BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers, and Contractors (2 ed.). "BIM mandate for transport projects in Germany confirmed for 2020". History Chuck Eastman The concept of BIM has existed since the 1970s. Yet many early adopters are confident that BIM will grow to play an even more crucial role in building documentation.[120] Proponents claim that BIM offers: Improved visualization Improved productivity due to easy retrieval of information Increased coordination of construction documents Embedding and linking of vital information such as vendors for specific materials, location of details and quantities required for estimation and tendering Increased speed of delivery Reduced costs BIM also contains most of the data needed for building performance analysis.[121] The building properties in BIM can be used to automatically create the input file for building performance simulation and save a significant amount of time and effort.[122] Moreover, automation of this process reduce errors and mismatches in the building performance simulation process. ^ "BS 1192-4:2014 Collaborative production of information. Retrieved 7 July 2017. "Analysis of modeling effort and impact of different levels of detail in building information models". National Development Plan, 2018 - 2027. "CITP". ^ "4D BIM Modeling: Improve Cost, Scheduling and Coordination of Building Project". Lévy, François (2011). Archived from the original on 19 June 2020. Martin Viveros (ed.). Management of building information models Building information models span the entire concept-to-occupation time-span. BIM in green building Main article: Building information modeling in green building BIM in green building, or "green BIM", is a process that can help architecture, engineering and construction firms to improve sustainability in the built environment. UK BS and PAS 1192 specifications form the basis of further parts of the ISO 19650 series, with parts on asset management (Part 3) and security management (Part 5) published in 2020.[30] The IEC/ISO 81346 series for reference designation has published 81346-12:2018,[31] also known as RDS-CW (Reference Designation System for Construction Works). NIBS. Understanding BIM: The Past, Present and Future. ^ "Release notes 0.17". sia - schweizerischer ingenieur- und architektenverein. BIM Thinkspace. "Setting a Standard in Building Information Modeling (Architect Magazine)". Archived from the original on 13 December 2013. ^ Digs. However, the modular nature of FreeCAD allows the user to adapt its workflow for such environments via the use of plugins. ISBN 978-0-470-54137-1. BIM applications allow extraction of different views from a building model for drawing production and other uses. ^ "BIM must become standard for construction in Germany says minister". The New Zealand government started a BIM acceleration committee, as a part of a productivity partnership with the work of 20 per cent more efficiency in the construction industry by 2020.[119] Future potential BIM is a relatively new technology in an industry typically slow to adopt change. ^ Rahmani Asl, Mohammad; Saied Zarrinmehr; Wei Yan (2013). Classes Work a potentially copyrightable work License a set of requests/permissions to users of a Work, e.g. a copyright license, the public domain, information for distributors Jurisdiction the legal jurisdiction of a license Permission an action that may or may not be allowed or desired Requirement an action that may or may not be requested of you Prohibition something you may be asked not to do Reproduction making multiple copies Distribution distribution, public display, and publicly performance Derivative Works distribution of derivative works Sharing permits commercial derivatives, but only non-commercial distribution Notice copyright and license notices be kept intact Attribution credit be given to copyright holder and/or author Source Code source code (the preferred form for making documents) must be provided when exercising some rights granted by the license. Archived (PDF) from the original on 17 February 2021. ^ "SD BIM from Vico website". The "As-Built" BIM model is populated with relevant building component information such as product data and details, maintenance/operation manuals, cut sheet specifications, photos, warranty data, web links to product online sources, manufacturer information and contacts, etc. ^ a b "NIBS BIM Initiatives". Archived from the original on 26 February 2017. (January 2022) Asia China China began its exploration on informatisation in 2001. 1 (3): 215-24. (1986) "Architectural design exposed: from computer-aided-drawing to computer-aided-design" Environments and Planning B: Planning and Design 1986 March 7 pp 385-389. Please help update this article to reflect recent events or newly available information. McGraw Hill published a detailed report in 2012 on the status of BIM adoption and implementation in South Korea.[64] United Arab Emirates Dubai Municipality issued a circular (196) in 2014 mandating BIM use for buildings of a certain size, height or type. Retrieved 8 October 2012. Free and open-source 3D CAD software FreeCADScreenshots from FreeCAD version 0.19Original author(s)Jürgen Riegel, Werner Mayer, York van Havre[1]a[Initial release29 October 2002; 19 years ago (2002-10-29)Stable release0.19.4[2] / 1 March 2022; 2 months ago (1 March 2022) Repositorygithub.com/FreeCAD/FreeCAD Written inC++, PythonOperating systemLinuxmacOSUnixWindowsType3D Modeling, CAD, BIM, FEMLicenseLGPL-2.0-or-laterWebsitefreecadweb.org Interior of 3D house Arduino board imported from Eagle PCB software FreeCAD is a general-purpose parametric 3D computer-aided design (CAD) modeler and a building information modeling (BIM) software application with finite element method (FEM) support.[3] It is intended for mechanical engineering product design but also expands to a wider range of uses around engineering, such as architecture or electrical engineering. ISBN 978-0-415-71774-8 Kensek, Karen and Noble, Douglas (2014). ^ "A case study on constructing 3D / 4D BIM models from 2D drawings and paper-based documents using a school building project by S L Fan, S C Kang, S H Hsieh, Y H Chen, C H Wu, J R Juang". Archived from the original on 30 December

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