Hmi Master Hd

Jean-Yves Fiset

Human Machine Interface Samuel Guccione,James McKirahan,2016 This groundbreaking text/lab manual introduces significant concepts in the fields of Human Machine Interface (HMI) and Programmable Logic Controllers. Hands-on, step-by-step activities provide experiences in creating various process-control applications with HMI devices and software--programming that enables an HMI system operator to interface and interact directly with the system. This book is ideal for introducing high school and college students, plus those in the professional fields of process control and automation, to the capabilities and potential of HMI. Features Introduces students and those in industry to the capabilities of Human Machine Interface. The text and activities, while ranging from basic to more advanced, assume no prior experience working with HMI devices and software. Readers experiment with programming that enables an HMI system operator to interface and interact directly with the system The many hands-on lab activities provide experience in creating and working with the type of process control applications that are used extensively in manufacturing. Includes key information on connecting HMI to Programmable Logic Controllers. Focuses primarily on Allen Bradley devices and Rockwell software, but concepts covered are that are applicable to various systems.

Start Programming, Simulating HMI and PLC in Your Laptop: A No Bs, No Fluff, HMI and PLC Programming & Simulating Michael Blake,Farouk Idris,2020-05-04 Derived From No. 1 Bestseller In Industrial, Manufacturing, Machinery Engineering, Industrial Technology and Design and Automation Engineering, That Will Enable You To Design, Test And Simulate PLC (Programmable Logic Controller) Ladder Program And HMI (Human Machine Interface) In Your PC Or Laptop From Scratch! Get Tips and Best Practices From Authors That Has More Than 20 Years Experience in Factory Automation Authors Team Up To Have Put Their Know How Into A No BS And No Fluff Guides That Has Become An International Bestseller With Hundreds Of Orders/Downloads From The UK, The US, Brazil, Australia, Japan, Mexico, Netherlands, India, Germany, Canada (Volume 0 & 1) Combined Create Absolutely Any Type of Programming (5 IEC Languages) For the Model Base, Systems, or Machines In Under A Few Minutes. Get Your Hands On An Arsenal Of Done For You, HMI & PLC Programming Examples Where You Are Welcome To Use And Modify Them As You Wish! No Strings Attached * You'll Be Given 21 Real World Working PLC-HMI Code with Step By Step Examples * You'll Be Given a Complete Development Environment Technology for Your PLC-HMI Program and Visualization Design * The Software Is A Simple Approach yet Powerful Enough To Deliver IEC Languages (LD, FBD, SFC, IL, ST) At Your Disposal * The Use of the Editors and Debugging Functions Is Based Upon the Proven Development Program Environments of Advanced Programming Languages (Such As Visual C++ Programming) * This Book Will Serve As Introductory & Beginning To PLC Programming Suitable For Dummies, Teens And Aspiring Young Adult And Even Intermediate Programmers Of Any Age * Open Doors to Absolute Mastery in HMI-PLC Programming In Multiple IEC Languages. Not Only You Know How to Write Code and Proof Yourself and Others Your Competence. Take this knowledge and build up a freelance site and consultancy * Project Examples and Best Practices to Create a Complete HMI-PLC Programs from Beginning to Virtual Deployment in Your PC or Laptop * PLC-HMI Is an Excellent Candidate for Robotics, Automation System Design and Linear Programming, Maximizing Output and Minimize Cost Used In Production and Factory Automation Engineering * Note: * The Standard IEC 61131-3 Is an International Standard for Programming Languages of Programmable Logic Controllers * The Programming Languages Offered In the Application Given Conform To the Requirements of the Standard * International Electro technical Commission (IEC), Five Standard Languages Have Emerged for Programming Both Process and Discrete Controllers In: * Ladder Diagram (LD), Function Block Diagram (FBD), Sequential Function Chart (SFC), Instruction List (IL), Structured Text (ST) Buy This Book and Start to Take Control Now!

Human-machine Interface Design for Process Control Applications Jean-Yves Fiset,2009 This work provides users and designers of industrial

control and monitoring systems with an easy-to-use, yet effective, method to configure, design, and validate human-machine interfaces. It includes systems such as distributed control systems, supervisory control and data acquisition systems, and stand-alone units.

LEARN TO PROGRAM, SIMULATE PLC & HMI IN MINUTES WITH REAL-WORLD EXAMPLES FROM SCRATCH. A NO BS, NO FLUFF PRACTICAL HANDS-ON PROJECT FOR BEGINNER TO INTERMEDIATE Michael Blake and Farouk Idris,2021-06-24 A Boxed Set or Bundle Value to Close Loop Your PLC (Programmable Logic Controller) and HMI (Human-Machine Interface) Programming, Simulation and Learning Attention: This Message Is Dedicated to All Technicians, Electrical Engineers, Mechanical Engineers, Managers, Local Consultants, and Freelance Agencies. Regardless You Are White, Blue, Gray or Even Gold Collars and To Each Who Wants To Stay Ahead Of the Curve through 2020 and Beyond! Derived From No. 1 Bestseller In Industrial, Manufacturing, Machinery Engineering, Industrial Technology and Design and Automation Engineering, That Will Enable You To Design, Test And Simulate PLC (Programmable Logic Controller) Ladder Program And HMI (Human Machine Interface) In Your PC Or Laptop From Scratch! Get Tips and Best Practices From Authors That Has More Than 20 Years Experience in Factory Automation Authors Team Up To Have Put Their Know How Into A No BS And No Fluff Guides That Has Become An International Bestseller With Hundreds Of Orders/Downloads From The UK, The US, Brazil, Australia, Japan, Mexico, Netherlands, India, Germany, Canada Combined Create Absolutely Any Type of Programming (5 IEC Languages) For the Model Base, Systems, or Machines in Under A Few Minutes. Get Your Hands On An Arsenal Of Done For You, HMI & PLC Programming Examples Where You Are Welcome To Use And Modify Them As You Wish! No Strings Attached * You'll Be Given 21 Real World Working PLC-HMI Code with Step By Step Examples * You'll Be Given a Complete Development Environment Technology for Your PLC-HMI Program and Visualization Design * The Software Is A Simple Approach yet Powerful Enough To Deliver IEC Languages (LD, FBD, SFC, IL, ST) At Your Disposal * The Use of the Editors and Debugging Functions Is Based Upon the Proven Development Program Environments of Advanced Programming Languages (Such As Visual C++ Programming) * This Book Will Serve As Introductory & Beginning To PLC Programming Suitable For Dummies, Teens And Aspiring Young Adult And Even Intermediate Programmers Of Any Age * Open Doors to Absolute Mastery in HMI-PLC Programming In Multiple IEC Languages. Not Only You Know How to Write Code and Proof Yourself and Others Your Competence. Take this knowledge and build up a freelance site and consultancy * Project Examples and Best Practices to Create a Complete HMI-PLC Programs from Beginning to Virtual Deployment in Your PC or Laptop * PLC-HMI Is an Excellent Candidate for Robotics, Automation System Design and Linear Programming, Maximizing Output and Minimize Cost Used In Production and Factory Automation Engineering * Note: * The Standard IEC 61131-3 Is an International Standard for Programming Languages of Programmable Logic Controllers * The Programming Languages Offered In the Application Given Conform To the Requirements of the Standard * International Electro technical Commission (IEC), Five Standard Languages Have Emerged for Programming Both Process and Discrete Controllers In: * Ladder Diagram (LD), Function Block Diagram (FBD), Sequential Function Chart (SFC), Instruction List (IL), Structured Text (ST)

Proceedings of the 7th FIRST 2023 International Conference on Global Innovations (FIRST-ESCSI 2023) Nyayu Latifah Husni,2024 Zusammenfassung: This is an open access book. The 7th FIRST (Forum in Research, Science and Technology) 2023 International Conference on Global Innovations is a prestigious gathering of thought leaders, industry experts, and visionaries who are dedicated to exploring and promoting innovative solutions to the world's most pressing challenges. This conference provides a unique platform for collaboration, knowledge sharing, and networking, fostering a global community of change-makers. This conference is held in conjunction with the forming of South Sumatra Vocational Higher Education or Technical and Vocational Education and Training (TVET) consortium. Technical and Vocational Education and Training (TVET) consortium is a forum for collaboration between vocational education units aimed at supporting the revitalization of Technical and Vocational

Education and Training. This consortium is formed in order to achieve harmony through a synergistic partnership, the Directorate General of Vocational Education, the Ministry of Education, Culture, Research and Technology (Kemendikbudristek) as well as stakeholders in the regions. In order to support the Partnership Ecosystem Strengthening Program for Regional Potential-Based Innovation Development

Designing Distributed Control Systems Veli-Pekka Eloranta,Johannes Koskinen,Marko Leppänen,Ville Reijonen,2014-06-09 Designing Distributed Control Systems presents 80 patterns for designing distributed machine control system software architecture (forestry machinery, mining drills, elevators, etc.). These patterns originate from state-of-the-art systems from market-leading companies, have been tried and tested, and will address typical challenges in the domain, such as long lifecycle, distribution, real-time and fault tolerance. Each pattern describes a separate design problem that needs to be solved. Solutions are provided, with consequences and trade-offs. Each solution will enable piecemeal growth of the design. Finding a solution is easy, as the patterns are divided into categories based on the problem field the pattern tackles. The design process is guided by different aspects of quality, such as performance and extendibility, which are included in the pattern descriptions. The book also contains an example software architecture designed by leading industry experts using the patterns in the book. The example system introduces the reader to the problem domain and demonstrates how the patterns can be used in a practical system design process. The example architecture shows how useful a toolbox the patterns provide for both novices and experts, guiding the system design process from its beginning to the finest details. Designing distributed machine control systems with patterns ensures high quality in the final product. High-quality systems will improve revenue and guarantee customer satisfaction. As market need changes, the desire to produce a quality machine is not only a primary concern, there is also a need for easy maintenance, to improve efficiency and productivity, as well as the growing importance of environmental values; these all impact machine design. The software of work machines needs to be designed with these new requirements in mind. Designing Distributed Control Systems presents patterns to help tackle these challenges. With proven methodologies from the expert author team, they show readers how to improve the quality and efficiency of distributed control systems.

Explainable AI Within the Digital Transformation and Cyber Physical Systems Moamar Sayed-Mouchaweh,2021-10-30 This book presents Explainable Artificial Intelligence (XAI), which aims at producing explainable models that enable human users to understand and appropriately trust the obtained results. The authors discuss the challenges involved in making machine learning-based AI explainable. Firstly, that the explanations must be adapted to different stakeholders (end-users, policy makers, industries, utilities etc.) with different levels of technical knowledge (managers, engineers, technicians, etc.) in different application domains. Secondly, that it is important to develop an evaluation framework and standards in order to measure the effectiveness of the provided explanations at the human and the technical levels. This book gathers research contributions aiming at the development and/or the use of XAI techniques in order to address the aforementioned challenges in different applications such as healthcare, finance, cybersecurity, and document summarization. It allows highlighting the benefits and requirements of using explainable models in different application domains in order to provide guidance to readers to select the most adapted models to their specified problem and conditions. Includes recent developments of the use of Explainable Artificial Intelligence (XAI) in order to address the challenges of digital transition and cyber-physical systems; Provides a textual scientific description of the use of XAI in order to address the challenges of digital transition and cyber-physical systems; Presents examples and case studies in order to increase transparency and understanding of the methodological concepts.

Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications Tarek Sobh,Khaled Elleithy,Ausif Mahmood,Mohamed Karim,2007-09-04 This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology, Automation, Telecommunications and Networking. The book includes

selected papers from the conference proceedings of the International Conference on Industrial Electronics, Technology, Automation (IETA 2006) and International Conference on Telecommunications and Networking (TeNe 06).

Smart Microgrids Sasi K. Kottayil,2020-08-18 This book addresses the need to understand the development, use, construction, and operation of smart microgrids (SMG). Covering selected major operations of SMG like dynamic energy management, demand response, and demand dispatch, it describes the design and operational challenges of different microgrids and provides feasible solutions for systems. Smart Micro Grid presents communication technologies and governing standards used in developing communication networks for realizing various smart services and applications in microgrids. An architecture facilitating bidirectional communication for smart distribution/microgrid is brought out covering aspects of its design, development and validation. The book is aimed at graduate, research students and professionals in power, power systems, and power electronics. Features: • Covers a broad overview of the benefits, the design and operation requirements, standards and communication requirements for deploying microgrids in distribution systems. • Explores issues related to planning, expansion, operation, type of microgrids, interaction among microgrid and distribution networks, demand response, and the technical requirements for the communication network. • Discusses current standards and common practices to develop and operate microgrids. • Describes technical issues and requirements for operating microgrids. • Illustrates smart communication architecture and protocols.

PLC and HMI Development with Siemens TIA Portal Liam Bee,2022-04-28 Become well-versed with the tools available in the Siemens TIA toolbox and write PLC and HMI code effectively Key FeaturesFind out how to use TIA Portal effectively to boost your productivityLearn about a structured design pattern and understand why it is so powerful when implemented correctlyDiscover efficient project management and design practicesBook Description With automation requirements on the rise, Siemens' TIA Portal development environment is almost a necessity for any automation engineer. The Totally Integrated Automation (TIA) environment helps seamlessly integrate all things automation, from PLC hardware and software design to HMI development. This book helps you understand the tools available in the TIA toolbox and shows you how to write code effectively. The book begins by introducing you to the TIA environment, covering the layout and tools available. Once you've got to grips with the environment, you'll find out how to create hardware to write programs against, including adding IO modules and assigning memory for input and output. Next, you'll develop logic in all of the languages that TIA Portal offers, such as Ladder, Function Block Diagram, and Structured Text (SCL) (note that Statement List is not covered as a deprecated language), as well as the newest language, Cause and Effect (CEM). You'll also discover how to store standard code in libraries, creating a version control system that is easy to manage and aids standard design. Finally, following the PLC design chapters, you'll learn how to develop HMI applications in TIA Portal's latest unified hardware. By the end of the book, you'll be well equipped to use all of the features that TIA Portal V17 offers. What you will learnSet up a Siemens Environment with TIA PortalFind out how to structure a projectCarry out the simulation of a project, enhancing this further with structureDevelop HMI screens that interact with PLC dataMake the best use of all available languagesLeverage TIA Portal's tools to manage the deployment and modification of projectsWho this book is for This TIA Portal book is for anybody looking to learn PLC/HMI development using the latest Siemens development platform. Industrial software engineers, PLC engineers, automation engineers, and electricians will be able to advance their skill set with this guide. A basic understanding of PLC principles such as PLC data types and basic objects such as function blocks and functions is necessary to get started.

Programming PLC And HMI for Sensors Automation Ulysses Arnwine,2021-03-23 Starting with PLC and HMI programming is not a simple task. You may need to equip yourself with a lot of brand-new knowledge about Programmable Logic Controller and Human Machine Interface. This booklet is written just for someone like you. Get a copy today! It is the second of a series dedicated to automation recipes created with the PLC

(Programmable Logic Controller) and HMI (Human Machine Interface) binomial. The series is aimed at an audience of readers with an elementary knowledge of PLC programming, eager to learn advanced solutions, extensively tested on real systems. In modern computer programming, generally oriented to the development of object-oriented software, the developer strives, as much as possible, to resort to so-called Design Patterns, standard solutions for frequently recurring problems. A design pattern describes a problem, particularly recurring in a given context, and then provide the heart of the solution to this problem. It is therefore possible to successfully reuse this solution, thousands and thousands of times, with the certainty of using an efficient and well-tested solution. In the present series, which deals exclusively with development on PLC-HMI, the term design pattern has been replaced by the term automation recipe for an easier understanding by the non IT reader. In the chapters of this book we will show in detail an automation recipe that can be reused in any PLC-HMI automation project that uses electric motors. The recipe has also been optimized for operation with Scada supervision systems. This second book illustrates the automation recipe for measuring and monitoring quantities acquired with 4-20 mA current sensors. In detail, the first section, dedicated to the application domain, analyzes the various types of measurement used to acquire physical quantities such as pressure, level, flow, electric current and temperature.The second section deals with the development of combined software for both PLC and HMI. The logic of the two function blocks (UDFB), Conv4_20mA and AnalogSts are analyzed. The first block shows how to convert from analog 4-20 mA to engineering quantities, while the second one explains how to monitor the status of the analog signal based on preset parameters such as set-point, hysteresis, dead band, operational thresholds and first and second level alarms. For both functional blocks are developed in detail the relevant screens for displaying the values, the local monitoring of the states and the setting of adjustment parameters. In addition to the logic of the function blocks, two auxiliary subroutines are also discussed, VirtualAI and Init, to be called only once (singleton) in the main program. The third section shows, finally, the application of the concepts, developed in the previous chapters, to a concrete case of level control in a waste water pumping station. The HMI solutions have been extensively tested on the OCS, Operator Control System, manufactured by Horner Apg. OCS combines a Controller, Operator Interface, Network and I/O into a single product. While the author, has been widely using Siemens, Allen Bradley, GE Fanuc PLCs he has focused the books of this series on the Horner OCSs because Horner provides Cscape, an integrated development environment, extremely easy to use and above all completely free. All the logics, published in the book, have been developed using the IEC61131-3 compliant Ladder language; therefore it is extremely easy to migrate them on almost all the PLCs of other manufacturers. The same applies to HMI screens whose graphic controls are very similar on the different equipment offered on the market. The reader who already has experience with other manufacturers' equipment can therefore continue to use what he knows best.

Industrial Network Security Eric D. Knapp,Joel Thomas Langill,2011-08-15 This book attempts to define an approach to industrial network security that considers the unique network, protocol and application characteristics of an industrial control system, while also taking into consideration a variety of common compliance controls--Provided by publisher.

Mastering PLC Programming M. T. White,2023-03-24 Learn PLC programming from the software perspective to understand advanced concepts such as OOP and HMI development and design reusable, portable, and robust code Purchase of the print or Kindle book includes a free PDF eBook Key FeaturesTake a deep dive into object-oriented PLC programming to gain hands-on knowledgeExplore software engineering concepts such as SDLC, debugging, and SOLID programmingGet a thorough grasp on HMI development to build various HMI projectsBook Description Object-oriented programming (OOP) is a new feature of PLC programming that has taken the automation world by storm. This book provides you with the necessary skills to succeed in the modern automation programming environment. The book is designed in a way to take you through advanced topics such as OOP design, SOLID programming, the software development lifecycle (SDLC), library design, HMI development, general software

engineering practices, and more. To hone your programming skills, each chapter has a simulated real-world project that'll enable you to apply the skills you've learned. In all, this book not only covers complex PLC programming topics, but it also removes the financial barrier that comes with most books as all examples utilize free software. This means that to follow along, you DO NOT need to purchase any PLC hardware or software. By the end of this PLC book, you will have what it takes to create long-lasting codebases for any modern automation project. What you will learnFind out how to write PLC programs using advanced programming techniquesExplore OOP concepts for PLC programmingDelve into software engineering topics such as libraries and SOLID programmingExplore HMIs, HMI controls, HMI layouts, and alarmsCreate an HMI project and attach it to a PLC in CODESYSGain hands-on experience by building simulated PLC and HMI projectsWho this book is for This book is for automaton programmers with a background in software engineering topics such as object-oriented programming and general software engineering knowledge. Automation engineers, software engineers, electrical engineers, PLC technicians, hobbyists, and upper-level university students with an interest in automation or robotics will also find this book useful and interesting. Anyone with a basic knowledge of PLCs can benefit from reading this book.

Telesurgery Sajeesh Kumar,Jacques Marescaux,2008-07-11 Written by renowned international experts, this book explains technical issues, digital information processing, and provides collective experiences from practitioners who perform a wide range of telesurgery applications. The book lays the foundation for the globalization of surgical procedures, making possible the ability of a surgeon located in one part of the world to operate on a patient located in another.

Comprehensive Energy Systems Ibrahim Dincer,2018-02-07 Comprehensive Energy Systems, Seven Volume Set provides a unified source of information covering the entire spectrum of energy, one of the most significant issues humanity has to face. This comprehensive book describes traditional and novel energy systems, from single generation to multi-generation, also covering theory and applications. In addition, it also presents high-level coverage on energy policies, strategies, environmental impacts and sustainable development. No other published work covers such breadth of topics in similar depth. High-level sections include Energy Fundamentals, Energy Materials, Energy Production, Energy Conversion, and Energy Management. Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by leading experts in the field Consolidates information currently scattered in publications from different research fields (engineering as well as physics, chemistry, environmental sciences and economics), thus ensuring a common standard and language

Government Gazette ,1916

Power System SCADA and Smart Grids Mini S. Thomas,John Douglas McDonald,2017-12-19 Power System SCADA and Smart Grids brings together in one concise volume the fundamentals and possible application functions of power system supervisory control and data acquisition (SCADA). The text begins by providing an overview of SCADA systems, evolution, and use in power systems and the data acquisition process. It then describes the components of SCADA systems, from the legacy remote terminal units (RTUs) to the latest intelligent electronic devices (IEDs), data concentrators, and master stations, as well as: Examines the building and practical implementation of different SCADA systems Offers a comprehensive discussion of the data communication, protocols, and media usage Covers substation automation (SA), which forms the basis for transmission, distribution, and customer automation Addresses distribution automation and distribution management systems (DA/DMS) and energy management systems (EMS) for transmission control centers Discusses smart distribution, smart transmission, and smart grid solutions such as smart homes with home energy management systems (HEMs), plugged hybrid electric vehicles, and more Power System SCADA and Smart Grids is designed to assist electrical engineering students, researchers, and practitioners alike in acquiring a solid understanding of SCADA systems and application functions in generation, transmission, and distribution systems, which are evolving day by day, to help them adapt to new challenges

effortlessly. The book reveals the inner secrets of SCADA systems, unveils the potential of the smart grid, and inspires more minds to get involved in the development process.

Women in Power Jill S. Tietjen,Marija D. Ilic,Lina Bertling Tjernberg,Noel N. Schulz,2023-07-18 This enlightening volume examines core areas of development in electric power systems, emphasizing the pivotal contributions of women engineers to the industry's evolution. The authors cover a broad spectrum of key topics, including generation technologies, transmission and distribution progress, environmental challenges, worldwide electrification, and workforce issues. Advances in conventional and renewable energy technologies, in parallel with growing environmental concerns, and in conjunction with the aging of both the infrastructure itself and the workforce, have led to imposing and fascinating challenges for the engineers of tomorrow. This book documents the critical role of women engineers and their pioneering discoveries, relates their stories of success and struggle in their own words, and shares their perspectives on how these challenges will be addressed in the decades ahead.

Smart Grids Bernd M. Buchholz,Zbigniew A. Styczynski,2020-03-23 Nowadays, Smart Grid has become an established synonym for modern electric power systems. Electric networks are fed less and less by large, centrally planned fossil and nuclear power plants but more and more by millions of smaller, renewable and mostly weather-dependent generation units. A secure energy supply in such a sustainable and ecological system requires a completely different approach for planning, equipping and operating the electric power systems of the future, especially by using flexibility provisions of the network users according to the Smart Grid concept. The book brings together common themes beginning with Smart Grids and the characteristics of power plants based on renewable energy with highly efficient generation principles and storage capabilities. It covers the advanced technologies applied today in the transmission and distribution networks and innovative solutions for maintaining today's high power quality under the challenging conditions of large-scale shares of volatile renewable energy sources in the annual energy balance. Besides considering the new primary and secondary technology solutions and control facilities for the transmission and distribution networks, prospective market conditions allowing network operators and the network users to gain benefits are also discussed. The growing role of information and communication technologies is investigated. The importance of new standards is underlined and the current international efforts in developing a consistent set of standards are updated in the second edition and described in detail. The updated presentation of international experiences to apply novel Smart Grid solutions to the practice of network operation concludes this book.

Smart Power Distribution Systems Qiang Yang,Ting Yang,Wie Li,2018-10-17 Smart Power Distribution Systems: Control, Communication, and Optimization explains how diverse technologies work to build and maintain smart grids around the globe. Yang, Yang and Li present the most recent advances in the control, communication and optimization of smart grids and provide unique insight into power system control, sensing and communication, and optimization technologies. The book covers control challenges for renewable energy and smart grids, communication in smart power systems, and optimization challenges in smart power system operations. Each area discussed focuses on the scientific innovations relating to the approaches, methods and algorithmic solutions presented. Readers will develop sound knowledge and gain insights into the integration of renewable energy generation in smart power distribution systems. Presents the latest technological advances in electric power distribution networks, with a particular focus on methodologies, approaches and algorithms Provides insights into the most recent research and developments from expert contributors from across the world Presents a clear and methodical structure that guides the reader through discussion and analysis, providing unique insights and sound knowledge along the way

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