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Nasa

Software

Engineering

Requirements

Requirement

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referred nasa
software
engineering
requirements

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Margaret Hamilton,

NASA's First

Software Engineer

How I Became A

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Software Engineer

At Tesla and
Anduril | The

Resume NASA

Engineer Shares

Software Smarts

NASA's first

software engineer:

Margaret Hamilton

- Matt Porter

\u0026 Margaret

Hamilton

2. Requirements

Definition ~~Work at~~

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~~NASA || How to get
hired at NASA ||
NASA jobs for non-
scientist. 5 Books
Every Software
Engineer Should
Read Requirements
and Configuration
Management-
Space Systems
Engineering 101 w/
NASA NASA's 150
Million Dollar
Coding Error How~~

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~~Software engineers
powered NASA's
space race 5 Books~~

EVERY Software

Engineer Should

Read | Designer to

Dev Podcast

Episode 2 NASA

Mission Software

Development on

the Eights: Java 8,

JavaFX 8, and

NetBeans 8

Do you need Math

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for Software

Engineering? (ft. Ex-Google Math Major)

LeWeb Hangout

with B. Cichy, Chief Software Engineer

NASA ~~Computer~~

~~Science vs~~

~~Software~~

~~Engineering~~

~~Which One Is A~~

~~Better Major? Do~~

You Need a

Computer Science

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Degree to be a
Software Engineer?
Why You NEED a
computer science
degree software
engineering Day at
Work: Software
Engineer Software
Pioneer Margaret
Hamilton on Apollo
11 | Christie's
Computer
Engineering
Careers and

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~~Subfields Nasa~~

Software

Engineering

Requirements

NASA Software

Engineering

Procedural

Requirements,

Standards, and

Related Resources.

Engineering

requirements for

software

acquisition,

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Software
Engineering
Requirements

development,
maintenance,
retirement,
operations, and
management
consistent with the
governance model
contained in NASA
Policy Directive
(NPD) 1000.0,
NASA Governance
and Strategic
Management
Handbook. The

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Software Formal
Inspections
Standard is
designed to
support the
inspection process
of software
developed for
NASA.

NASA Software
Engineering
Procedural
Requirements ...

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This policy
establishes the
agency-level
Software
Engineering
requirements,
Software
Assurance
requirements,
software safety-
critical
requirements and
the scoping
requirements for

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IV&V support for all software acquired or developed at NASA. The requirements contained in NPR 7150.2 were adapted from industry standards and proven NASA experience in Software Engineering.

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NASA Software
Engineering
Requirements Now
in Effect

The Office of the
Chief Engineer
advances NASA's
software
engineering
practices through
Continuous process
and product
improvement,
software

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software metric,
updated policies
and guidelines,
infusion of software
engineering
research and
technology, and by
enhancing
engineering
knowledge and
skills.

Software

Engineering | NASA

Page 16/92

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Software

engineering is a core capability and key enabling

technology for

NASA's missions

and supporting

infrastructure. This

directive

establishes the

engineering

requirements for

software

acquisition,

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Software
Engineering
Requirements
development,
maintenance,
retirement,
operations, and
management
consistent with

Subject: NASA
Software
Engineering
Requirements
The software
technical
requirements

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Software process
is used to
transform the
baselined
stakeholder
expectations into
unique,
quantitative, and
measurable
technical software
requirements that
can be used for
defining a design
solution for the

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Software end products and related enabling products. This process also includes validation of the requirements to ensure that the requirements are well-formed (clear and unambiguous), complete (agrees with customer and

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Stakeholder needs
and ...

Engineering

Requirements

SWE-050 -

Software

Requirements - SW

Engineering ... -

NASA

PROJECT

SOFTWARE

REQUIREMENTS

(CHAPTER 3, 4, &

5) This section

contains guidance,

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Software, and lists of useful resources and tools related to each and every one of the requirements in NPR 7150.2C in Chapters 3, 4, and 5. You can use the table below to link to the full text of all requirements and to the guidance on each.

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Software

C. Project Software
Requirements - SW
Engineering ... -

NASA

This wiki-based
NASA Technical
Handbook provides
users and
practitioners with
guidance material
for implementing
the requirements
of NPR 7150.2,

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NASA Software
Engineering
Requirements, and
the implementation
of the NASA
Software
Assurance and
Software Safety
requirements in
NASA-STD-8739.8,
Software
Assurance
Standard.

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NASA-HDBK-2203 |
NASA Technical
Standards System
(NTSS)

The educational requirements are very rigorous and include a bachelor's degree from an accredited university or college. The preferred majors include

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Software, and
NASA's site
specifies that
engineering
technology is not
considered an
engineering
degree. Other
preferred majors
are mathematics,
life science or
physical science.

What Qualifications

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Software
Engineering
Requirements

Must You Have to Become a NASA Engineer?

This wiki-based
NASA Software
Engineering and
Assurance
Handbook, NASA-
HDBK-2203
provides users and
practitioners with
guidance material
for implementing
the requirements

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of NPR 7150.2,
NASA Software
Engineering
Requirements, and
the implementation
of the NASA
Software
Assurance and
Software Safety
requirements in
NASA-STD-8739.8
278. The
requirements in
this directive and

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Standard have
been extracted
from industry
standards and
proven NASA
experience in
software
engineering.

NASA - Book A.
Introduction - SW
Engineering
Handbook Ver C
Where To

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Recognizing the

habit ways to

acquire this books

nasa software

engineering

requirements is

additionally useful.

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You have remained
in right site to start
getting this info.
get the nasa
software
engineering
requirements
colleague that we
come up with ...

Nasa Software
Engineering
Requirements
Software

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Software
Engineering
Requirements

requirements analysis begins after the System Requirements Review (SRR). The development team analyzes the software requirements for completeness and feasibility. The development team uses structured or object-oriented

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Software
Engineering
Requirements

analysis and a
requirements
classification
methodology to
clarify and amplify
the requirements.

SWE-051 -
Software
Requirements
Analysis - NASA
Software ...
NPR 7150.2 NASA
Software

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Engineering

Requirements

CHAPTER 2.

Software

Management

Requirements 2.1

Compliance with

Laws, Policies, and

Requirements 2.2

Software Life Cycle

Planning 2.3

Commercial,

Government, and

Modified Off-The-

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Software 2.4

Software

Verification and

Validation 2.5

Project Formulation

Requirements

NASA Procedural

Requirements

NASA-STD-8739.9 :

Software Formal

Inspections

Standard:

2013-06-17: NASA-

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STD-8739.8 :

Software
Assurance and
Software Safety

Standard:

2020-06-10: NASA-

STD-8739.6 :

Implementation
Requirements for
NASA

Workmanship

Standards:

2016-06-30: NASA-

STD-8739.5 :

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Workmanship
Standard for Fiber
Optic Terminations,
Cable Assemblies,
and Installation:
2015-09-15

All Standards |
NASA Technical
Standards System
(NTSS)

Nasa Software
Engineering
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September 14,

2023: NPR

7123.1B: NASA

Systems

Engineering

Processes and

Requirements

(Updated w/Change

4) January 18,

2020: NPR

7150.2C: NASA

Software

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Requirements :

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August 2, 2024:

NPD 7170.1: Use of
Human Research
Genetic Testing :

February 22, 2023:

NPD ... Software
Management Page
12/27

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Engineering
Requirements -
mallaneka.com
4.1 Software

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Requirements 4.2

Software

Architecture 4.3

Software Design

4.4 Software

Implementation 4.5

Software Testing

4.6 Software

Operations,

Maintenance, and

Retirement

Chapter 5.

Supporting

Software Life-Cycle

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Requirements. 5.1

Software

Configuration

Management 5.2

Software Risk

Management 5.3

Software Peer Reviews/Inspections 5.4

Software

Measurements 5.5

Software Non-conformance or Defect

Management

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Chapter 6.

NPR 7150.2C -
main - NASA

A well-defined acceptance plan will help the software development team and the software assurance team to identify the resources required to properly support

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the effort. P.2

Applicability and

Scope P.2.1 The

requirements of

this NPR cover

software created or

acquired by or for

NASA, including co

mmercial-off-the-

shelf software

(COTS), governmen

t-off-the-shelf

[SWE-085].

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nasa software

engineering

requirements

Nasa Software

Engineering

Requirements

NASA Software

Engineering

Procedural

Requirements,

Standards, and

Related Resources.

Engineering

requirements for

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Software
acquisition,
development,
maintenance,
retirement,
operations, and
management
consistent with the
governance model
contained in NASA
Policy Directive
(NPD) 1000.0,
NASA

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Nasa Software

Engineering

Requirements

NASA Software

Engineering

Requirements Now

in Effect NPR

7150.2 establishes

the set of software

engineering

requirements

established by the

Agency for

software

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Software
Engineering
Requirements

acquisition,
development,
maintenance,
retirement,
operations, and
management. It
provides a set of
software
engineering

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This slide presentation reviews seven processes that NASA uses to ensure that software is developed, acquired and maintained as specified in the NPR 7150.2A requirement. The requirement is to

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ensure that all software be appraised for the Capability Maturity Model Integration (CMMI). The enumerated processes are: (7) Product Integration, (6) Configuration Management, (5) Verification, (4) Software

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Software, (3)

Measurement and
Analysis, (2)

Requirements

Management and

(1) Planning &

Monitoring. Each of

these is described

and the group(s)

that are

responsible is

described.

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Software

The NASA Software
Engineering
Requirements
Documentation
Standard

(hereinafter referred to as "Standard") is designed to support the documentation of all software developed for NASA; its goal is to provide a

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framework and model for recording the essential information needed throughout the development life cycle and maintenance of a software system. The NASA Software Documentation Standard can be applied to the documentation of

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all NASA software.

The Standard is limited to

documentation format and content requirements. It does not mandate specific management, engineering, or assurance standards or techniques. This Standard defines

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the format and content of documentation for software

acquisition, development, and sustaining engineering.

Format requirements address where information shall be recorded and content

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Software
Engineering
Requirements

requirements address what information shall be recorded. This Standard provides a framework to allow consistency of documentation across NASA and visibility into the completeness of project documentation. The basic

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framework consists of four major sections (or volumes). The

Management Plan contains all planning and business aspects of a software project, including engineering and assurance planning. The Product

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Software
Specification
contains all
technical
Engineering
Requirements
engineering
information,
including software
requirements and
design. The
Assurance and Test
Procedures
contains all
technical
assurance
information,

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including Test,
Quality Assurance
(QA), and

Verification and
Validation (V&V).

The Management,
Engineering, and
Assurance Reports
is the library and/or
listing of all project
reports. NASA-
STD-2100-91, NAS
1.82:2100-91 ...

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Provides general guidance and information on systems

engineering that will be useful to the NASA community.

It provides a generic description of Systems

Engineering (SE) as it should be applied throughout NASA.

The handbook will

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increase awareness
and consistency
across the Agency
and advance the
practice of SE. This
handbook provides
perspectives
relevant to NASA
and data particular
to NASA. Covers
general concepts
and generic
descriptions of
processes, tools,

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and techniques. It provides information on systems

engineering best practices and pitfalls to avoid.

Describes systems engineering as it should be applied to the development and implementation of large and small

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NASA programs
and projects.
Charts and tables.

The proceedings
from the November
2001 conference in
Greenbelt,
Maryland comprise
21 papers on
software aspects of
aerospace

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Systems,

experience

management

systems, security,

risk analysis,

project planning

and estimation,

cost-benefit

analysis, Smerfs,

natural language

requirements,

requirements

validation,

erroneous

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Software requirements, value assessments, verification and validation of autonomous systems, reliability modeling, and collaborative test management. Case studies and the results of empirical research are featured. Abstracts are provided for

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each paper. A CD-ROM is included.
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Portland, OR.

As requirements engineering continues to be recognized as the key to on-time and on-budget delivery

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of software and systems projects, many engineering programs have made requirements engineering mandatory in their curriculum. In addition, the wealth of new software tools that have recently emerged is empowering

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practicing
engineers to
improve their
requirements
engineering habits.
However, these
tools are not easy
to use without
appropriate
training. Filling this
need,
Requirements
Engineering for
Software and

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Software Engineering Requirements
Systems, Second Edition has been vastly updated and expanded to include about 30 percent new material. In addition to new exercises and updated references in every chapter, this edition updates all chapters with the

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Software
Engineering
Requirements

latest applied research and industry practices.

It also presents new material derived from the experiences of professors who have used the text in their classrooms. Improvements to this edition include:
An expanded introductory

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Software
Engineering
Requirements

chapter with
extensive
discussions on
requirements
analysis,
agreement, and
consolidation An
expanded chapter
on requirements
engineering for
Agile
methodologies An
expanded chapter
on formal methods

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with new examples

An expanded section on requirements traceability

An updated and expanded section on requirements engineering tools

New exercises including ones suitable for research projects

Following in the

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Software Engineering Requirements

footsteps of its bestselling predecessor, the text illustrates key ideas associated with requirements engineering using extensive case studies and three common example systems: an airline baggage handling system, a point-of-sale system for a

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Software Engineering Requirements

large pet store chain, and a system for a smart home. This edition also includes an example of a wet well pumping system for a wastewater treatment station. With a focus on software-intensive systems, but highly applicable to non-

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Software systems,
this text provides a
probing and
comprehensive
review of recent
developments in
requirements
engineering in high
integrity systems.

Although software
development is one
of the most
complex activities

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carried out by man,
sound
development
processes and
proper project
management can
help ensure your
software projects
are delivered on
time and under
budget. Providing
the know-how to
manage software
projects effectively,

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Introduction to Software Project Management supplies an accessible introduction to software project management. The book begins with an overview of the fundamental techniques of project management and

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the technical aspects of software development. This section supplies the understanding of the techniques required to mitigate uncertainty in projects and better control the complexity of software development

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Software Engineering Requirements projects. The second part illustrates the technical activities of software development in a coherent process—describing how to customize this process to fit a wide range of software development scenarios.

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Examines project management frameworks and software

development standards, including ESA and NASA guidelines, PRINCE2® , and PMBOK®

Addresses open source development practices and tools

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Software can
adopt best
practices and get
started with tools
that are available
for free Explains
how to tailor the
development
process to different
kinds of products
and formalities,
including the
development of
web applications

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Includes access to additional material for both

practitioners and teachers at

www.spmbook.com

Supplying an analysis of existing development and management frameworks, the book describes how to set up an open-source tool

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Software
Engineering
Requirements

infrastructure to manage projects. Since practitioners must be able to mix traditional and agile techniques effectively, the book covers both and explains how to use traditional techniques for planning and developing software

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Software
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Requirements

components alongside agile methodologies. It does so in a manner that will help you to foster freedom and creativity in assembling the processes that will best serve your needs.

Now in its third

Page 83/92

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edition, this classic guide to software requirements engineering has been fully updated with new topics, examples, and guidance. Two leaders in the requirements community have teamed up to deliver a contemporary set

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of practices covering the full range of requirements development and management activities on software projects. Describes practical, effective, field-tested techniques for managing the requirements engineering

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Software Engineering Requirements
process from end to end. Provides examples demonstrating how requirements "good practices" can lead to fewer change requests, higher customer satisfaction, and lower development costs. Fully updated with contemporary

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examples and
many new
practices and
techniques.

Describes how to
apply effective
requirements
practices to agile
projects and
numerous other
special project
situations.

Targeted to
business analysts,

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Software
Engineering
Requirements

developers, project managers, and other software project

stakeholders who have a general understanding of the software development process. Shares the insights gleaned from the authors' extensive experience

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delivering
hundreds of software
re-requirements
training courses,
presentations, and
webinars. New
chapters are
included on
specifying data
requirements,
writing high-quality
functional
requirements, and
requirements

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reuse. Software

Considerable depth
has been added on
business

requirements,
elicitation

techniques, and
nonfunctional

requirements. In
addition, new

chapters

recommend

effective

requirements

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practices for various special project situations, including enhancement and replacement, packaged solutions, outsourced, business process automation, analytics and reporting, and embedded and

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other real-time
systems projects.

Requirements

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