

Aspects and correlations of (embedded) software architecture in a mind map

Dirk Engel, info@engel-internet.de – first version 2019/01/26, last update 2020/12/26

Bibliography - General

design

O. Vogel, I. Arnold, A. Chughtai, E. Ihler, U. Mehlig, Th. Neumann, M. Völter, U. Zdun, "Software-Architektur /

Grundlagen – Konzepte – Praxis", Spektrum Akademischer Verlag, 2005, ISBN 3-8274-1534-9

Mahbouba Gharbi, Arne Koschel, Andreas Rausch, Gernot Starke, "Basiswissen für Softwarearchitekten",

dpunkt. Verlag GmbH, 2018, ISBN 978-3-86490-499-8

Bibliography – Mind Map Links

4+1 https://www.cs.ubc.ca/~gregor/teaching/papers/4+1view-architecture.pdf (2019/01/14)

https://agilemanifesto.org/ (2019/01/14) agile vs. traditional aim42 https://www.aim42.org/using (2019/01/26)

architectural patterns Frank Buschmann, Regine Meunier, Hans Rohnert, Peter Sommerlad, Michael Stal, "Pattern-Oriented Software

Architecture / A System of Patterns", John Wiley & Sons, Ltd, 1996, ISBN 978-0-471-95869-7

http://man7.org/linux/man-pages/man7/capabilities.7.html (2019/01/14) capabilities

Johannes Siedersleben, "Moderne Softwarearchitektur", dpunkt.verlag GmbH, 2004, ISBN 3-89864-292-5 categories

CFI https://source.android.com/devices/tech/debug/cfi (2019/01/14)

https://en.wikipedia.org/wiki/Cgroups (2019/01/14) cgroups

characteristics http://www.informit.com/articles/article.aspx?p=1152528&seqNum=4 (2019/01/14)

component https://www.techopedia.com/definition/3217/component (2019/01/07)

concentric architectures https://blog.cleancoder.com/uncle-bob/2012/08/13/the-clean-architecture.html (2020/12/26)

https://jvns.ca/blog/2016/10/10/what-even-is-a-container/ (2019/01/15) container

Conway's law https://en.wikipedia.org/wiki/Conway%27s law (2019/01/14)

CVEs https://cve.mitre.org/ (2019/01/04)

debugging rules David J. Agans, "Debugging", AMACOM, 2002, ISBN 0-8144-7168-4 https://dictionary.cambridge.org/de/worterbuch/englisch/design (2019/01/07)

Erich Gamma, John Vlissides, Ralph Johnson und Richard Helm, "Design Patterns / Elements of Reusable Objectdesign patterns

Oriented Software", Addison-Wesley, 1994, ISBN 0-201-63361-2

environment https://www.merriam-webster.com/dictionary/environment (2019/01/07)

evolution http://nectunt.bifi.es/to-learn-more-overview/mechanisms-of-evolutionary-change/ (2019/01/14)

FURPS https://en.wikipedia.org/wiki/FURPS (2019/01/14)

GPL infected https://yarchive.net/comp/linux/gpl_modules.html (2019/01/14)

human resources https://www.linkedin.com/pulse/why-fte-based-planning-useful-managing-sw-engineering-dirk-engel/ idioms https://www.oreilly.com/library/view/pattern-oriented-software-architecture/9781118725269/OEBPS/

9781118725269_c04.htm (2019/01/14)

Information Hiding https://en.wikipedia.org/wiki/Information_hiding (2019/01/14) IODA https://leanpub.com/ioda-architektur-im-vergleich-dnp (2020/12/15)

ISO-25010 https://iso25000.com/index.php/en/iso-25000-standards/iso-25010 (2019/01/14)

ISO-26262 https://www.iso.org/standard/43464.html (2019/01/14)

https://dictionary.cambridge.org/de/worterbuch/englisch/organization (2019/01/07) organization

Stefan Toth, "Wie Architektur agile Zusammenarbeit fördert oder behindert", OBJEKTspektrum 01/2018 obstructive

Christopher Alexander, Sara Ishikawa, Murray Silverstein, "A Pattern Language: Towns, Buildings, Construction", patterns

Oxford University Press, 1977, ISBN 0-19-501919-9

https://www.oreilly.com/ideas/4-essential-skills-software-architects-need-to-have-but-often-dont (2019/01/04) people skills

Klaus Pohl et al., "Software Product Line Engineering", Springer, 2005, ISBN 978-3540243724 platform

principle https://dictionary.cambridge.org/dictionary/english/principle (2019/01/07)

process definition https://en.wikipedia.org/wiki/ISO/IEC_15504 (2019/01/14)

key principles https://docs.microsoft.com/en-us/previous-versions/msp-n-p/ee658124(v=pandp.10)#KeyDesignPrinciples

logging vs. tracing https://en.wikipedia.org/wiki/Tracing_(software)#Event_logging_versus_tracing (2019/01/08)

http://man7.org/linux/man-pages/man7/namespaces.7.html (2019/01/15) namespace

Mark Richards, "Software Architecture Patterns", O'Reilly Media, Inc., 2015, ISBN 9781491924242 microservices

Martin Fowler, "Refactoring", Addison-Wesley, 1999, ISBN 0-201-48567-2 refactoring (patterns)

https://www.collinsdictionary.com/de/worterbuch/englisch/relationship (2019/01/07) relationship

RFC2119 https://www.ietf.org/rfc/rfc2119.txt (2019/01/14) https://en.wikipedia.org/wiki/SOLID (2019/01/14) **SOLID**

SW architecture http://www.iso-architecture.org/ieee-1471/defining-architecture.html (2019/01/14)

SWE.2 https://flecsim.de/images/download/AutomotiveSpice/Automotive%20Spice%203.0/SWE.2.html (2019/01/14) SWE.5 https://flecsim.de/images/download/AutomotiveSpice/Automotive%20Spice%203.0/SWE.5.html (2019/01/14)

https://www.merriam-webster.com/dictionary/system (2019/01/07) system

Thorsten Janning, "Scaling Agility: Wie führt man 100 agile Teams?" OBJEKTspektrum, Ausgabe Agility/2014 team

test coverage Peter Liggesmeyer, "Sofware-Qualität", Spektrum Akad. Verlag 2002, ISBN 3-8274-1118-1

tragedy of the commons https://en.wikipedia.org/wiki/Tragedy of the commons (2020/12/26)

XΡ Kent Beck, "Extreme Programming Explained", Addison-Wesley, 2000, ISBN 0-201-61641-6