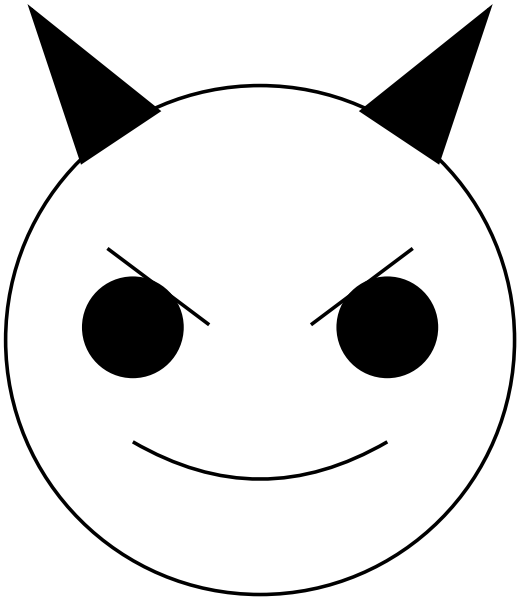
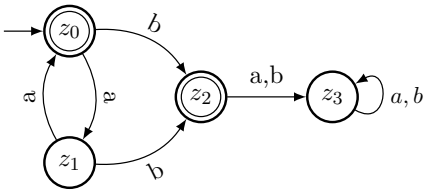
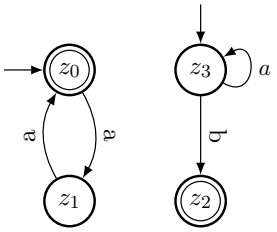
Inhaltsverzeichnis

```
%%Einbindung erfolgt über:
\getGraphics{⟨Pfad⟩}
```

Pfad	Ergebnis
`Allerlei/Teufel`	
`Automat/AutomatDFA`	$\mathrm{D}_{\text{eterministic}}\ \mathrm{F}_{\text{inite}}\ \mathrm{A}_{\text{utomaton}}$  $D = \left(\underset{Menge}{Z}, \underset{Alphabet}{\Sigma}, \underset{Z\times\Sigma\to Z}{\delta}, \underset{\in Z}{S}, \underset{\subseteq Z}{E}\right)$ (Zustände, Eingabe, Übergangsfkt., Start(s), Endzust.) $T(D) = \left\{x \in \Sigma^* \mid \hat{\delta}(S,x) \cap E \neq \varnothing\right\}$

`Automat/AutomatNFA`

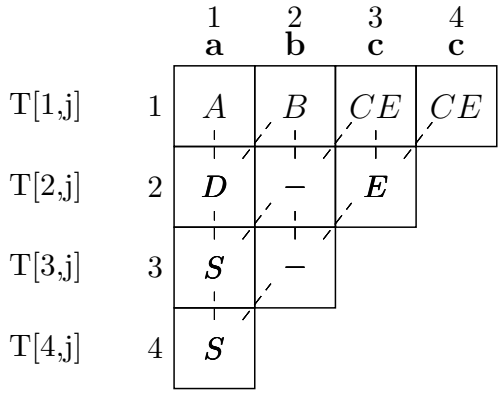
Nondeterministic Finite Automaton



$$N = \left(\underset{Menge}{Z}, \underset{Alphabet}{\Sigma}, \underset{Z\times\Sigma\to Z^*}{\delta}, \underset{\subseteq Z}{S}, \underset{\subseteq Z}{E} \right)$$

$$T(N) = \left\{ x \in \Sigma^* \mid \hat{\delta}(S,x) \cap E \neq \varnothing \right\}$$

`Automat/CYKAlgorithmus`



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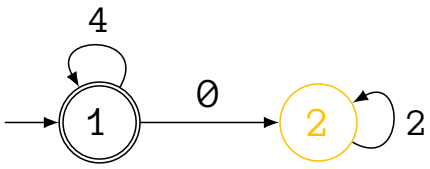

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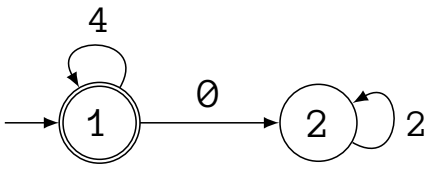

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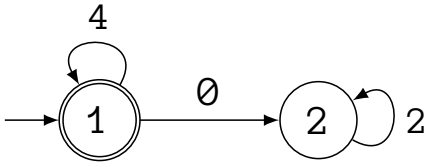
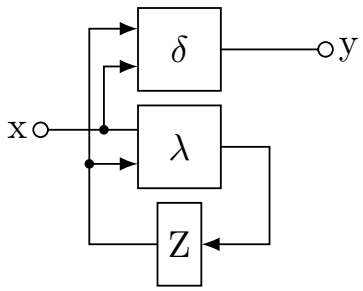


`Automat/Header`

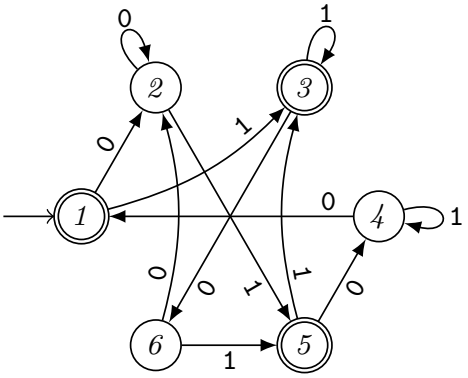
Isch bin a Hädder!

`Automat/MealyAutomat`



Ausgabe von Zustand & Eingabe abhängig

`Automat/MinimalautomatBeispiel/MinimalautomatBeispiel1`



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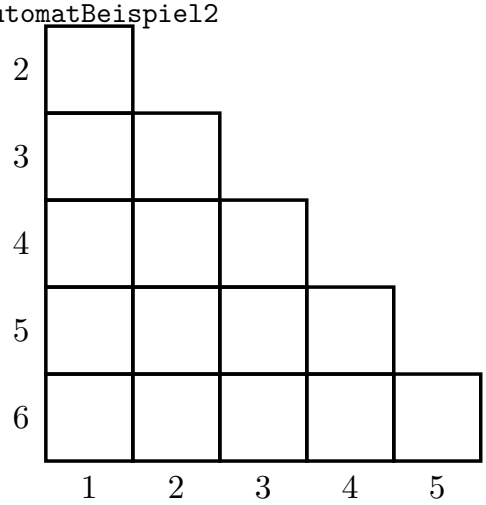

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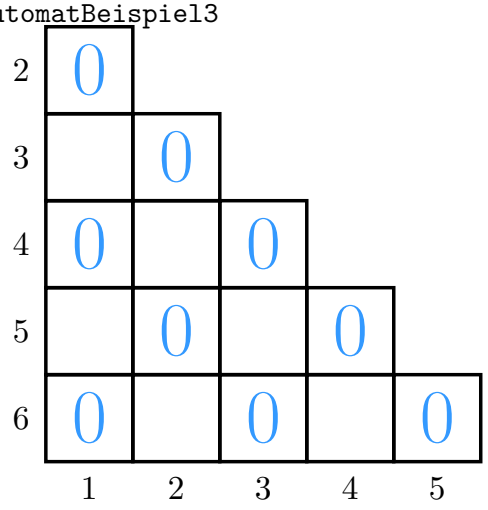
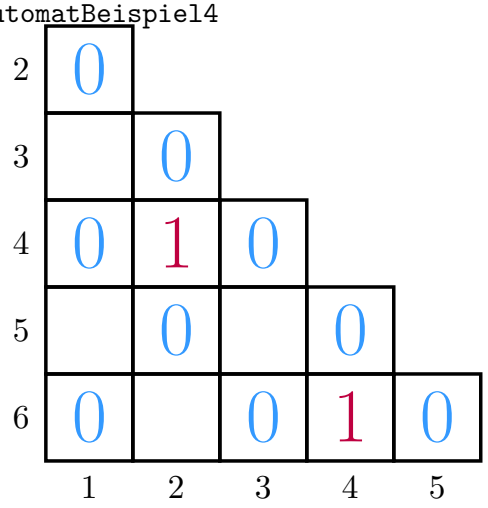


`Automat/MinimalautomatBeispiel/MinimalautomatBeispiel4`



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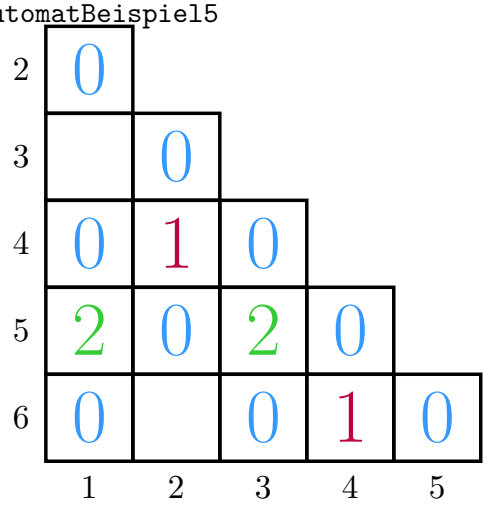

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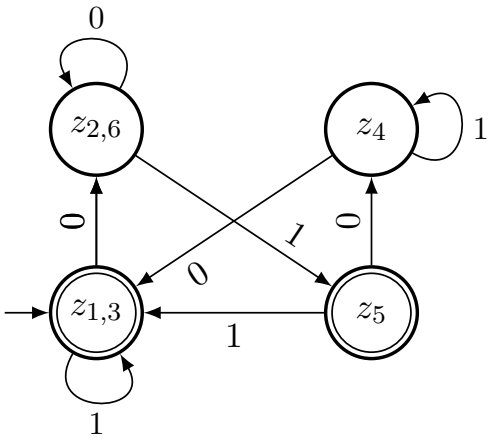

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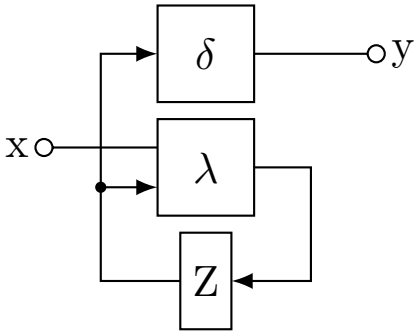
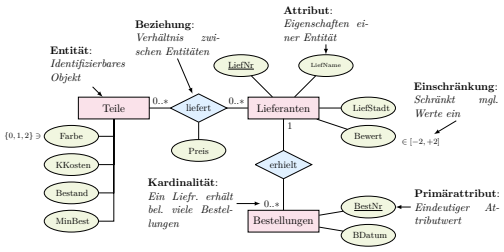
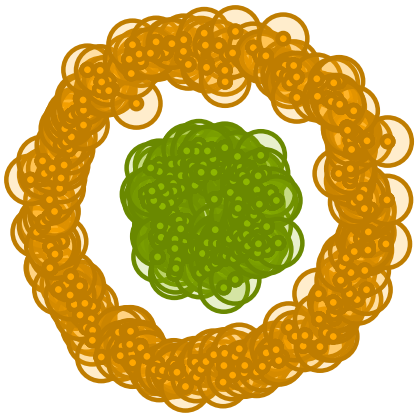


Ausgabe nur vom Zustand abhängig

`Datenbanken/ERMExample`





Eigene/Proseminar/Cluster/en-circles

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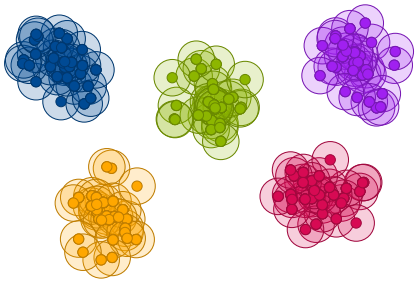

Eigene/Proseminar/Cluster/en-clusters

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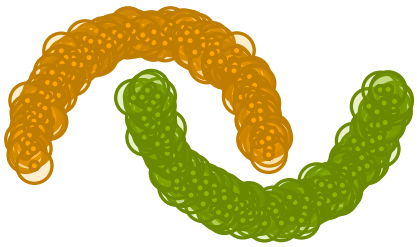

Eigene/Proseminar/Cluster/en-moons

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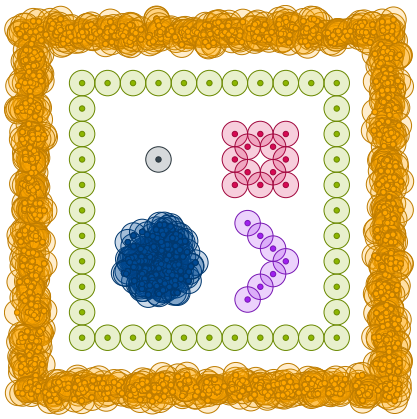

Eigene/Proseminar/Cluster/en-special

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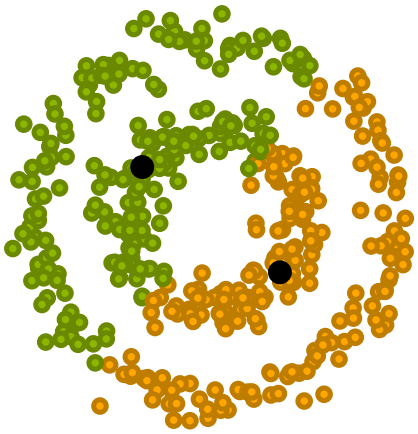

Eigene/Proseminar/Cluster/km-circles

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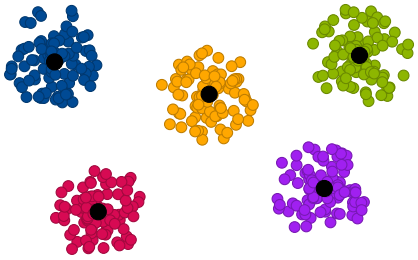

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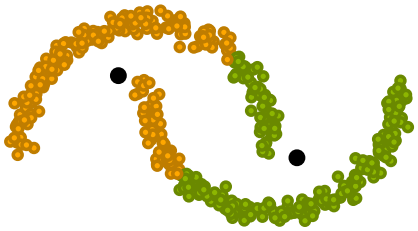

Eigene/Proseminar/Cluster/km-moons

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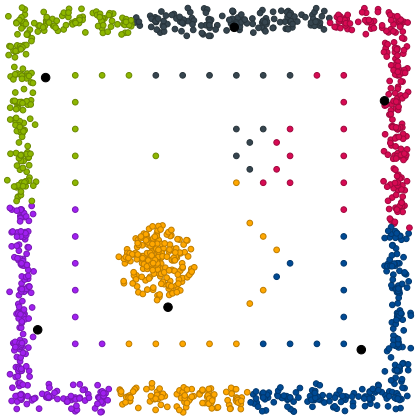

Eigene/Proseminar/Cluster/km-special

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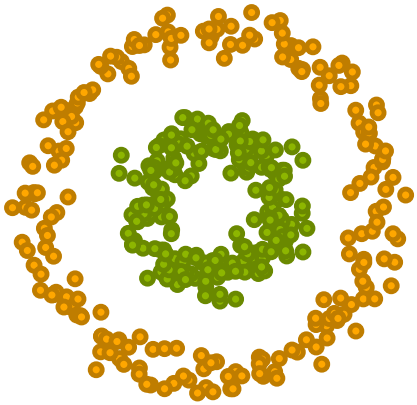

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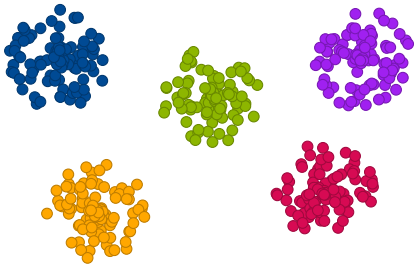

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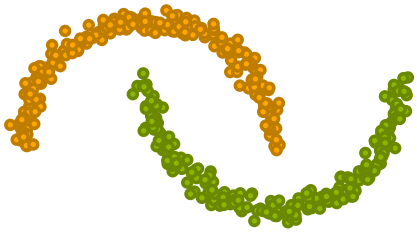

Eigene/Proseminar/Cluster/kn-moons

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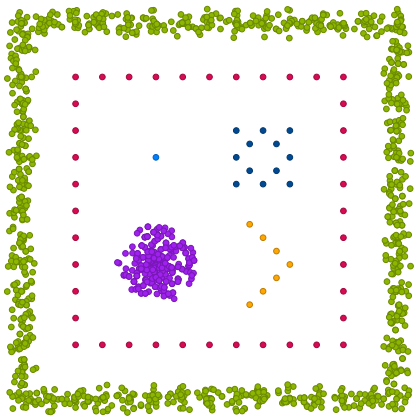

Eigene/Proseminar/Cluster/kn-special

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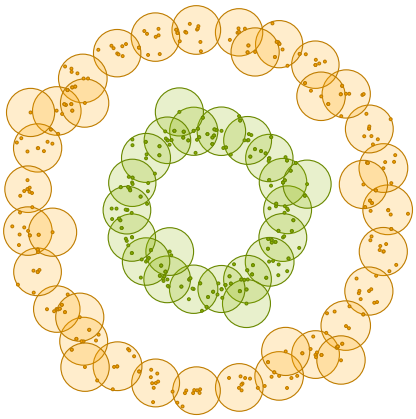

Eigene/Proseminar/Cluster/rolf-circles

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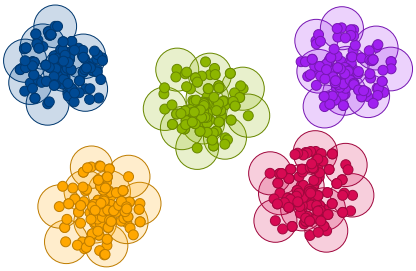

Eigene/Proseminar/Cluster/rolf-clusters

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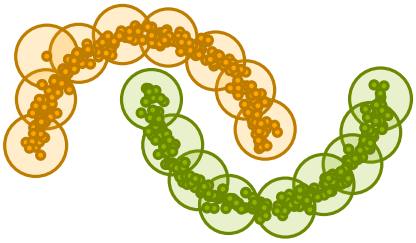

Eigene/Proseminar/Cluster/rolf-moons

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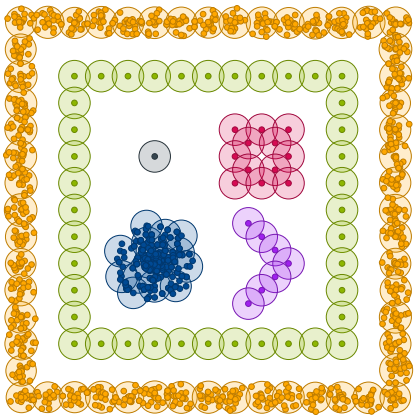

Eigene/Proseminar/Cluster/rolf-special

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Eigene/Proseminar/Cluster/thumb-circles

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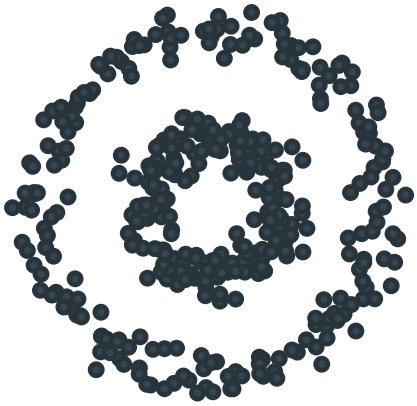

Eigene/Proseminar/Cluster/thumb-clusters

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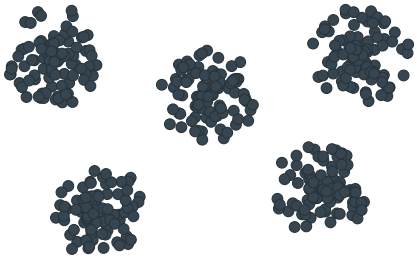

Eigene/Proseminar/Cluster/thumb-moons

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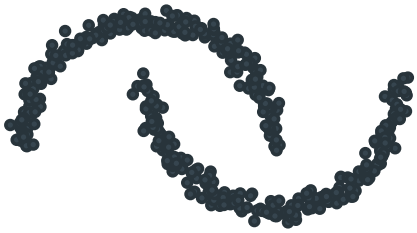

Eigene/Proseminar/Cluster/thumb-special

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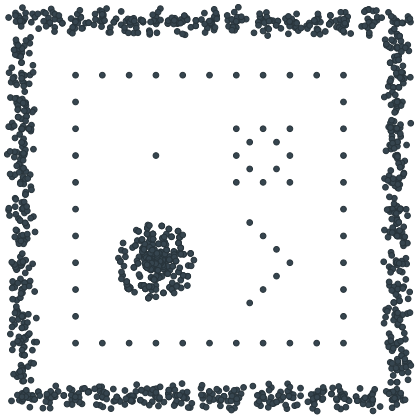
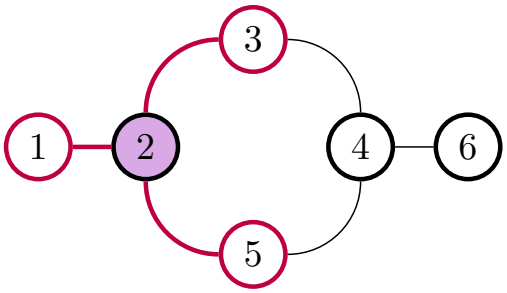
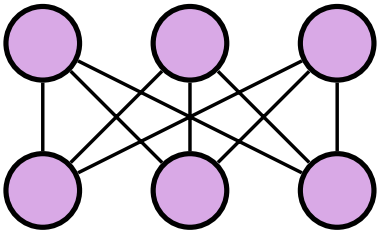


`Graphen/GraphNachbarschaftGrad`



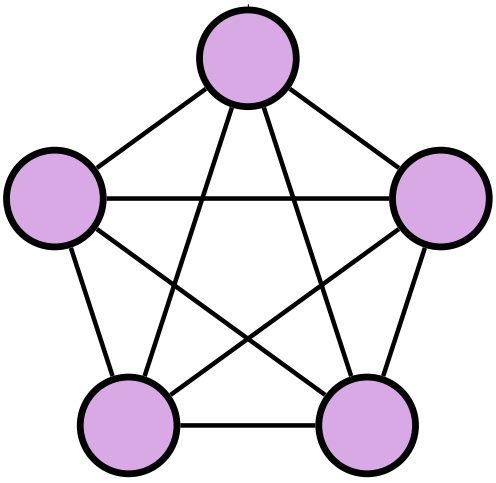
`Graphen/GraphNichtPlanarK33`

$K_{3,3}$

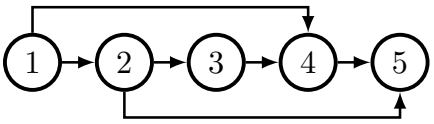


`Graphen/GraphNichtPlanarK5`

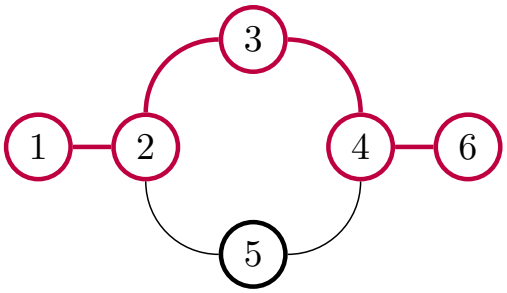
K_5



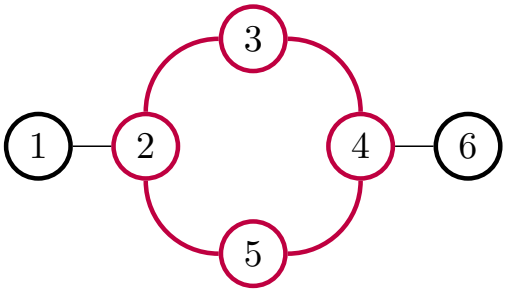
`Graphen/GraphTopologie`



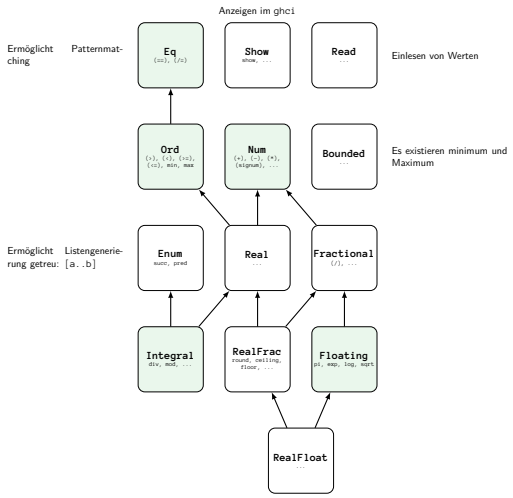
Graphen/GraphWegPfad



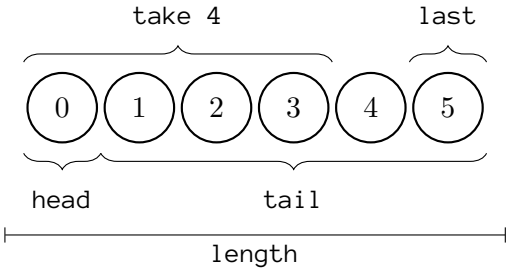
Graphen/GraphZyklus



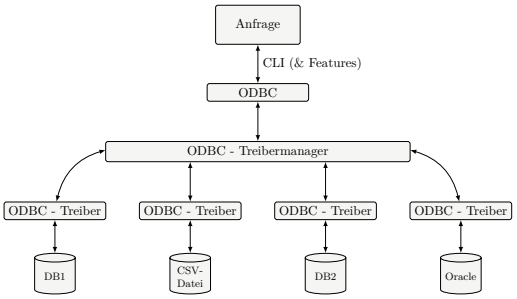
Haskell/HaskellTypen



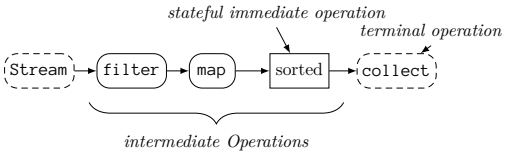
Haskell/Listenoperationen



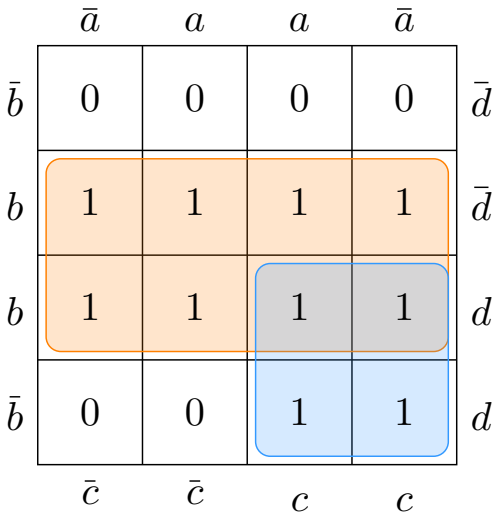
Java/ODBCSchematisch



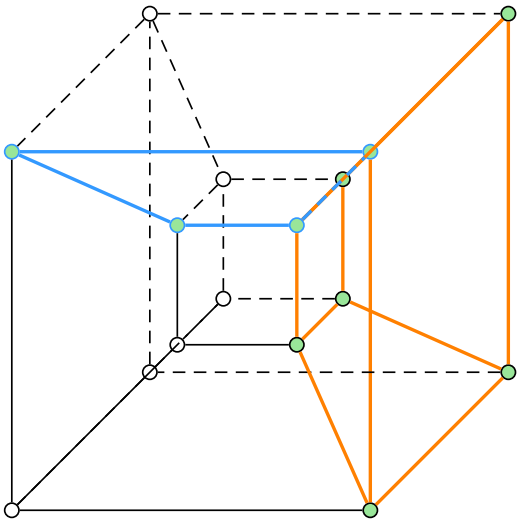
Java/StreamDemo



Logik/KVDiagramm



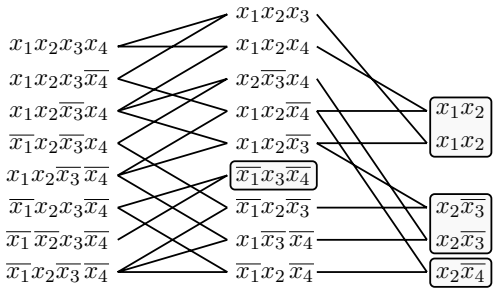
Logik/KVWuerfel



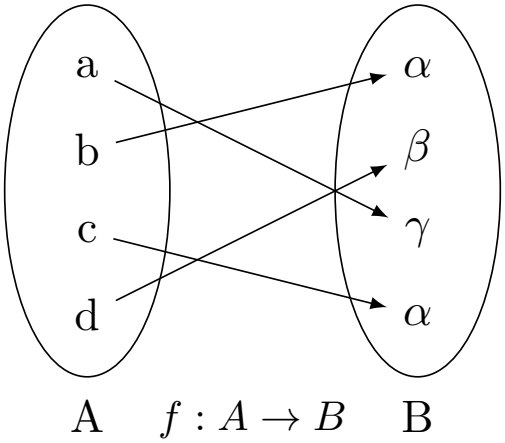
Logik/QuineMCCluskeyTabelle

	1	2	3	4	5	6	7	8
x_1x_2	+	+	+		+			
$x_2\overline{x_3}$			+	+	+			+
$x_2\overline{x_4}$		+			+	+		+
$\overline{x_1}x_3\overline{x_4}$						+	+	

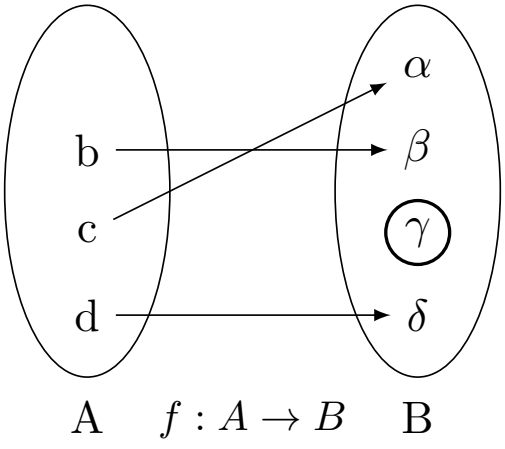
Logik/QuineMCCluskeyZusammenfassen



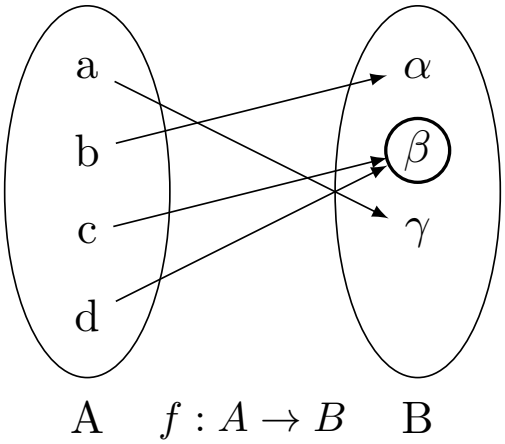
Mengen/FunktionBijektiv



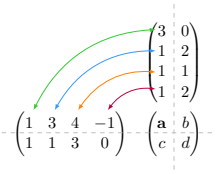
Mengen/FunktionInjektiv



Mengen/FunktionSurjektiv

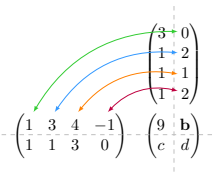


Mengen/Mengenmultiplikation/Mengenmultiplikation1



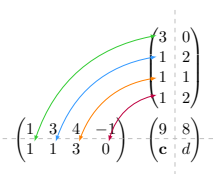
Für a ergibt sich also:
$a = 1 * 3 + 3 * 1 + 4 * 1 + (-1) * 1$
$= 9$

Mengen/Mengenmultiplikation/Mengenmultiplikation2



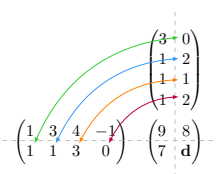
Für b ergibt sich also:
$b = 1 * 0 + 3 * 2 + 4 * 1 + (-1) * 2$
$= 8$

Mengen/Mengenmultiplikation/Mengenmultiplikation3



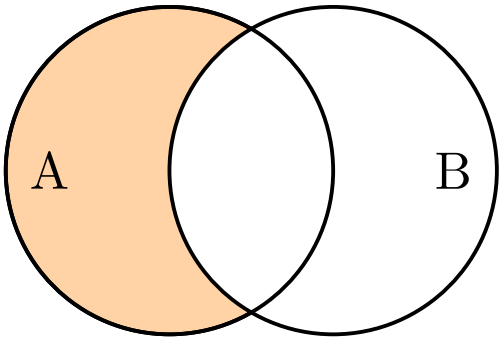
Für c ergibt sich also:
$c = 1 * 3 + 1 * 1 + 3 * 1 + 0 * 1$
$= 7$

Mengen/Mengenmultiplikation/Mengenmultiplikation4

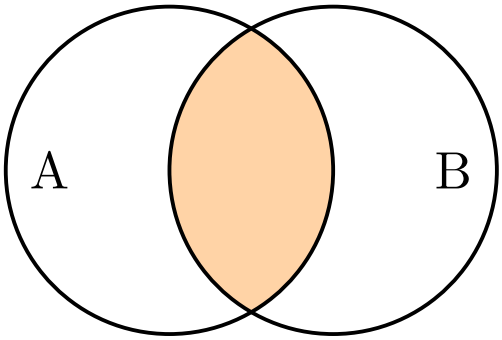


Für d ergibt sich also:
$d = 1 * 0 + 1 * 2 + 3 * 1 + 0 * 2$
$= 5$

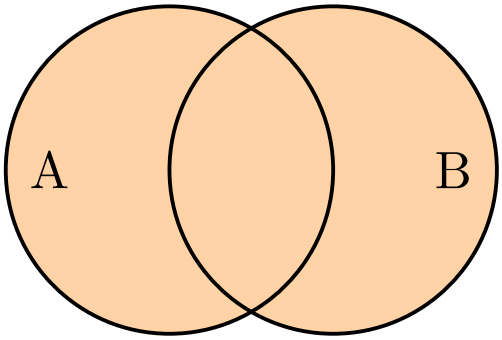
Mengen/VennDifferenz



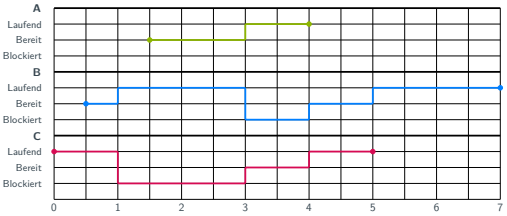
Mengen/VennSchnitt



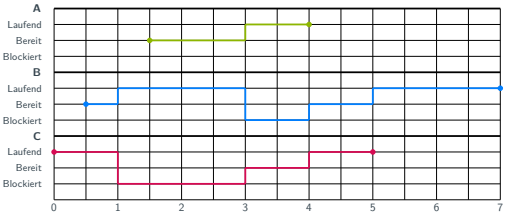
Mengen/VennVereinigung



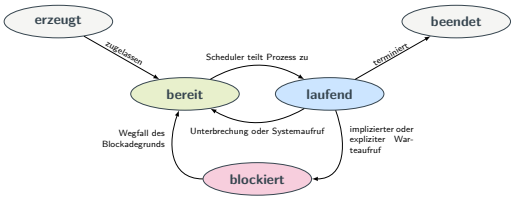
Prozesse/FCFS-WorstCase



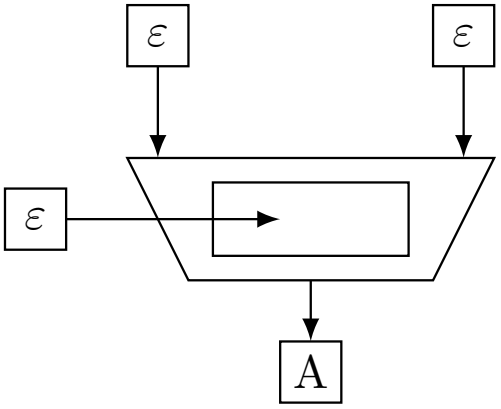
Prozesse/FCFS



Prozesse/Prozesszustaende



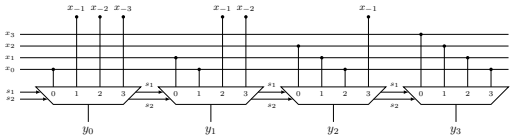
Rechner/ALU



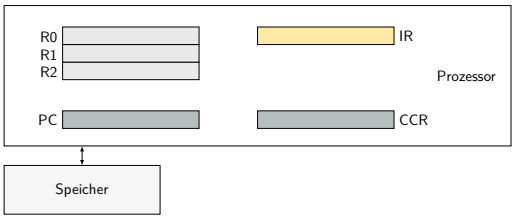
Rechner/AmpelPLA

	Zustand			Folgez.		NS			WO			
δ	h_0	z_0	z_1	z_0'	z_1'	●	●	●	●	●	●	T
δ_0	0	0	0	0	1	●	○	○	○	○	●	$7 \Rightarrow h_0' = 1$
δ_1	1	0	1	0	1	●	○	○	○	○	●	$\mathrm{T} - 1$
δ_3	0	0	1	1	0	○	●	○	○	●	●	$2 \Rightarrow h_0' = 1$
δ_4	1	1	0	1	0	○	●	○	○	●	●	$\mathrm{T} - 1$
δ_6	0	1	0	1	1	○	○	●	●	○	○	$7 \Rightarrow h_0' = 1$
δ_7	1	1	1	1	1	○	○	●	●	○	○	$\mathrm{T} - 1$
δ_9	0	1	1	0	0	○	●	●	○	●	○	$2 \Rightarrow h_0' = 1$
δ_{10}	1	0	0	0	0	○	●	●	○	●	○	$\mathrm{T} - 1$

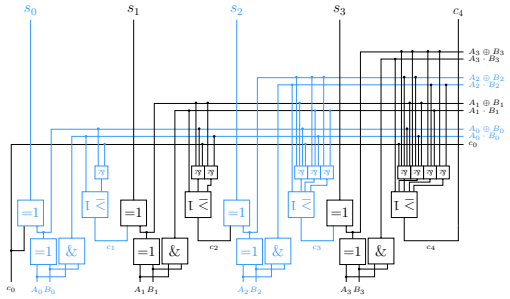
Rechner/BarrelShifter



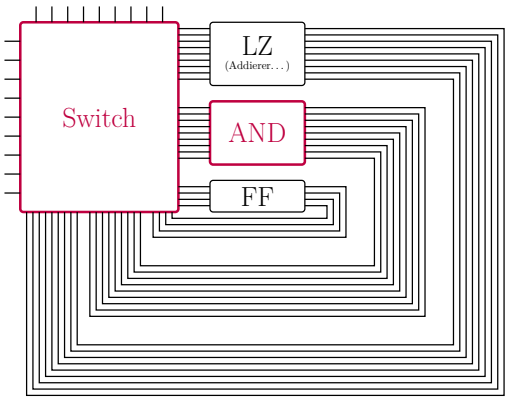
Rechner/Beispielprozessor



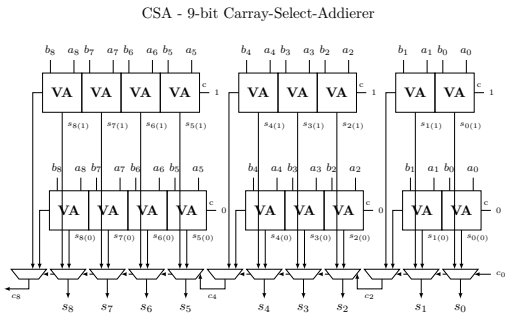
Rechner/CLA



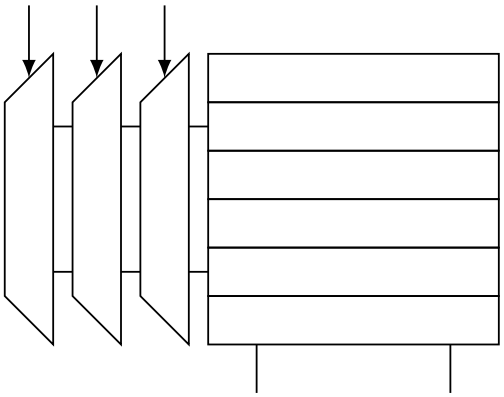
Rechner/CPLD



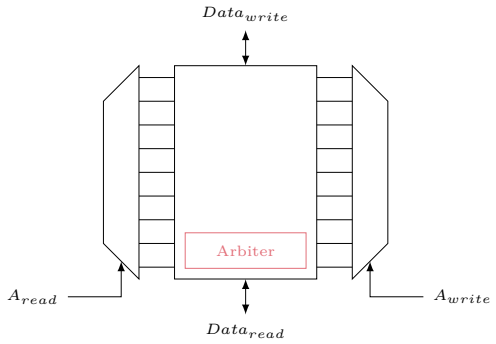
Rechner/CSA



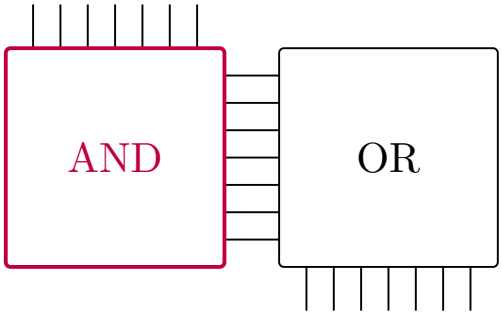
Rechner/DreiTorRegister



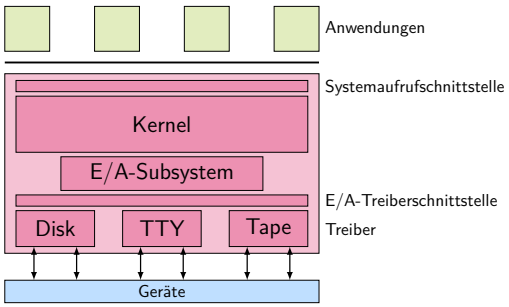
Rechner/Eintorspeicher



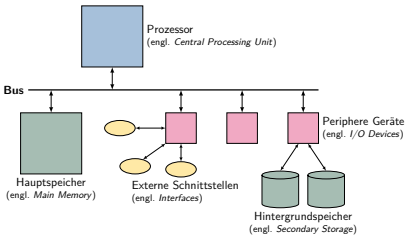
Rechner/GALPAL



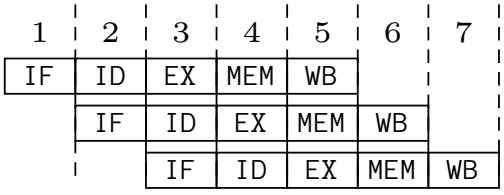
Rechner/Geraeteverwaltung



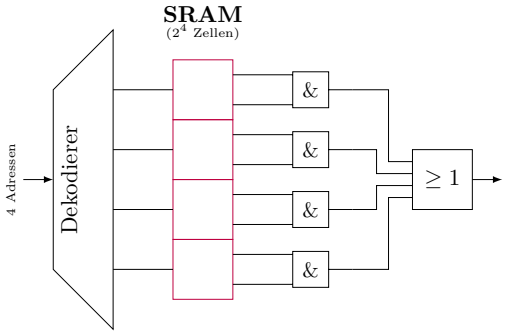
Rechner/HardwareSkizze



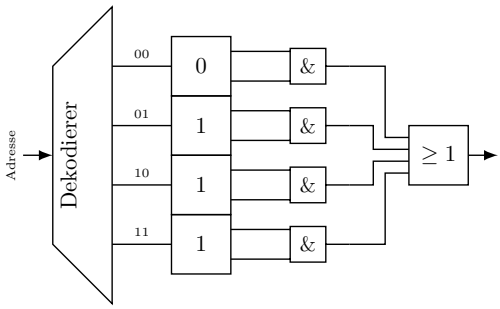
Rechner/ISA



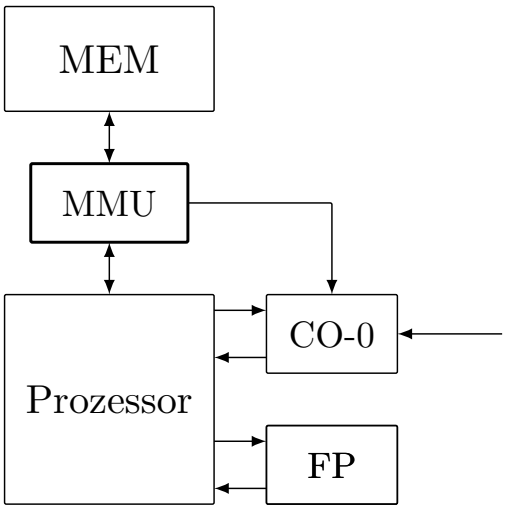
Rechner/LUT



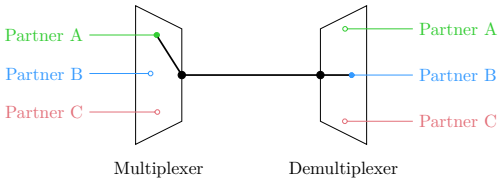
Rechner/LUTOder



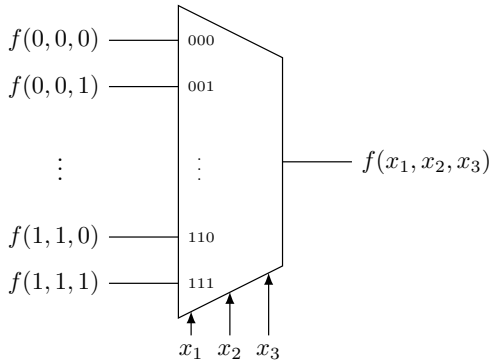
Rechner/MIPS



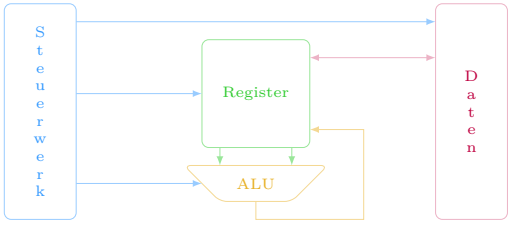
Rechner/MuxDemuxKommunikation



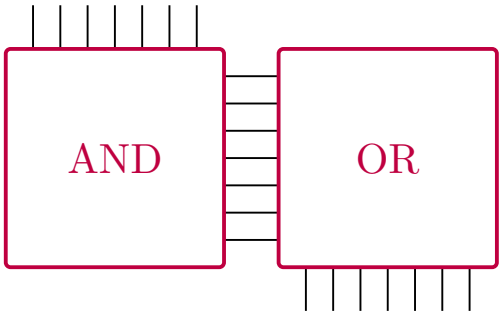
Rechner/MuxShannon



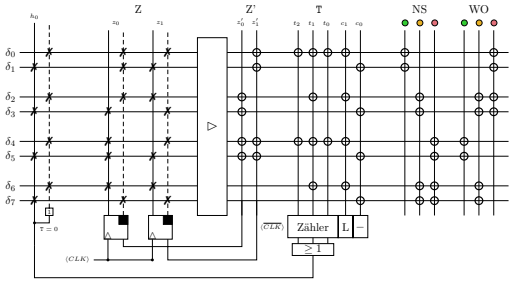
Rechner/NAdressmaschiene



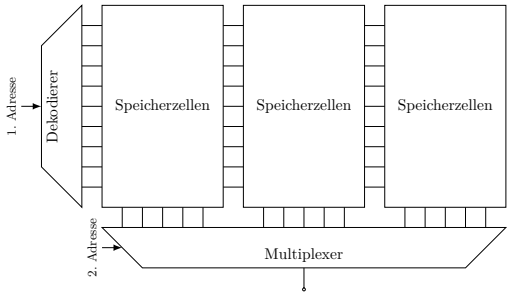
Rechner/PLA



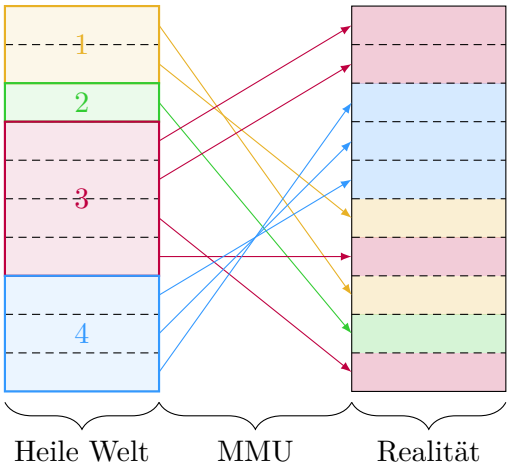
Rechner/PLAAmpel



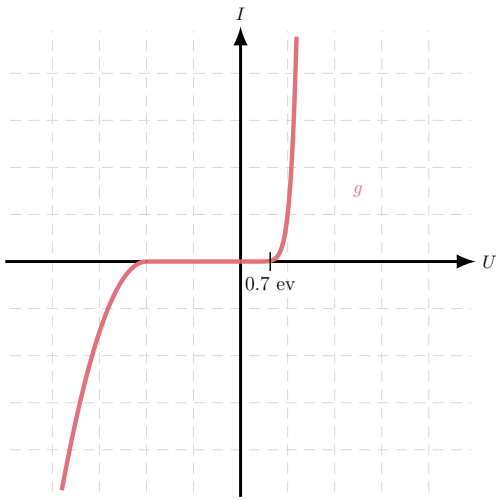
Rechner/PROM



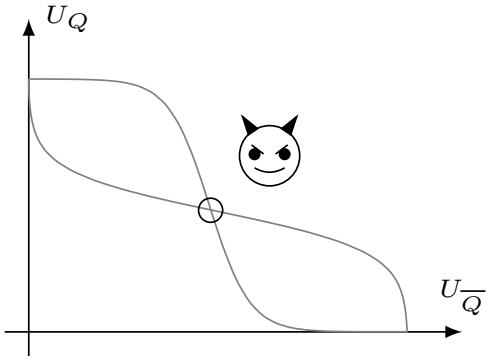
Rechner/Pages



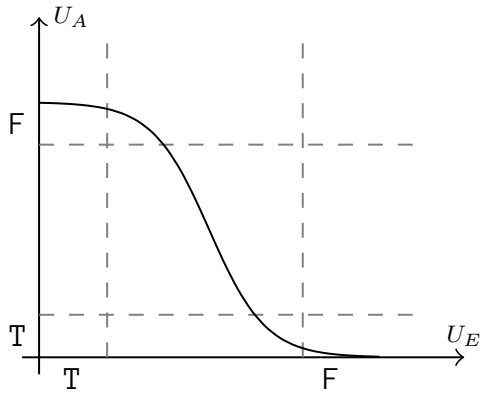
Rechner/Physik/DiodenStromstaerke



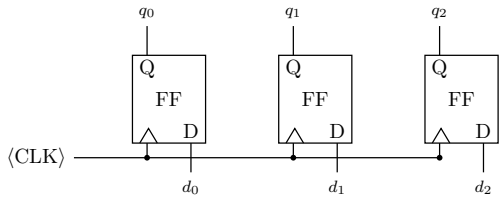
Rechner/Physik/Metastabil



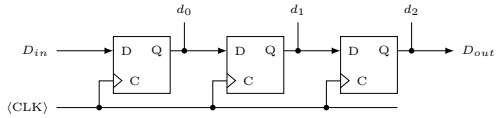
Rechner/Physik/TransistorStoertoleranz



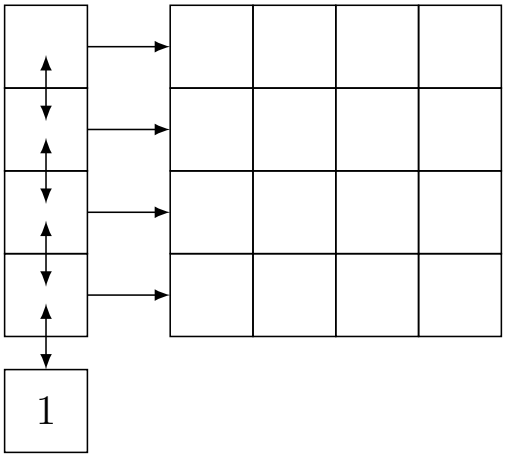
Rechner/RegisterParallel



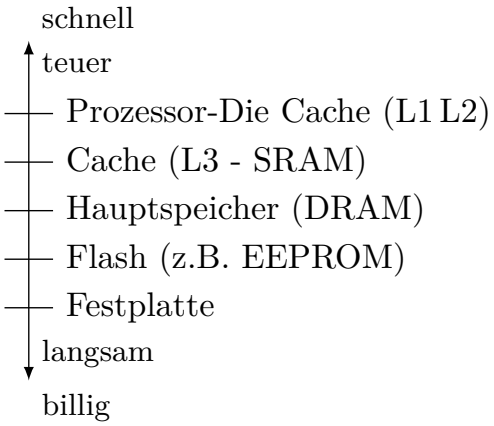
Rechner/RegisterSeriell



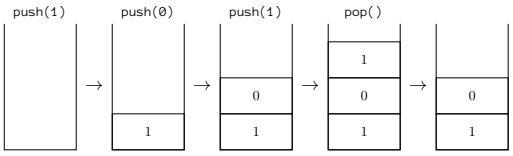
Rechner/Shiftregister



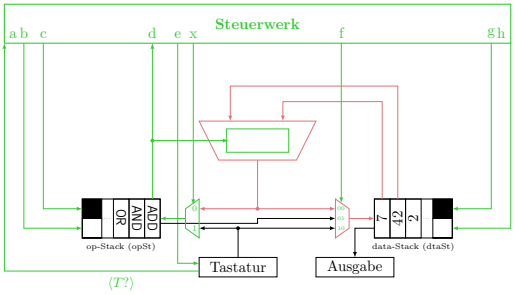
`Rechner/Speicherhierarchie`



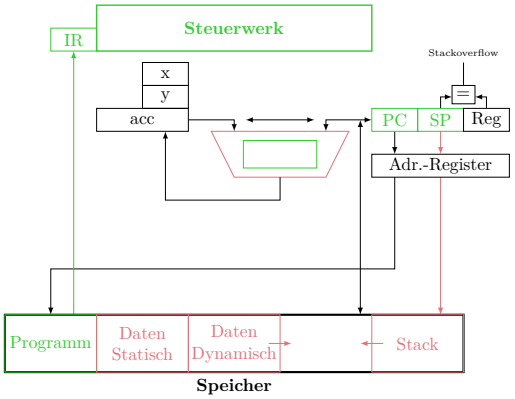
`Rechner/StackExample`



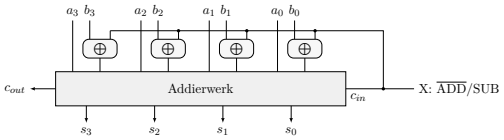
`Rechner/Stackmaschiene`



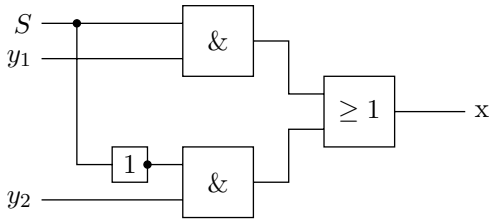
`Rechner/StackmaschieneSimpler`



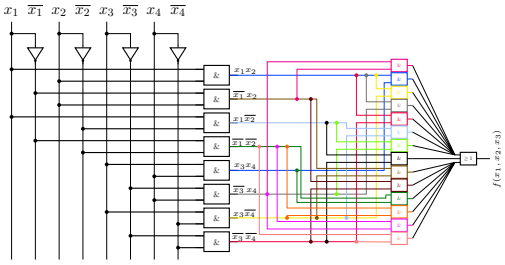
`Schaltkreis/Addier-Subtrahierer`



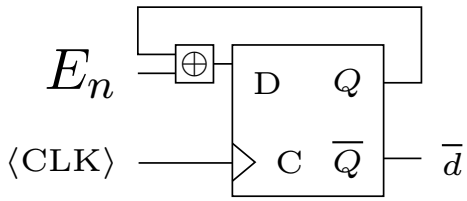
Schaltkreis/Demultiplexer



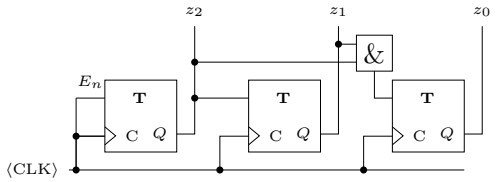
Schaltkreis/KomplexerSchaltkreis



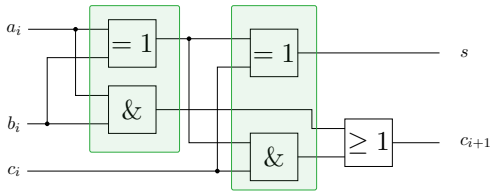
Schaltkreis/SynchronzaehlerDFF



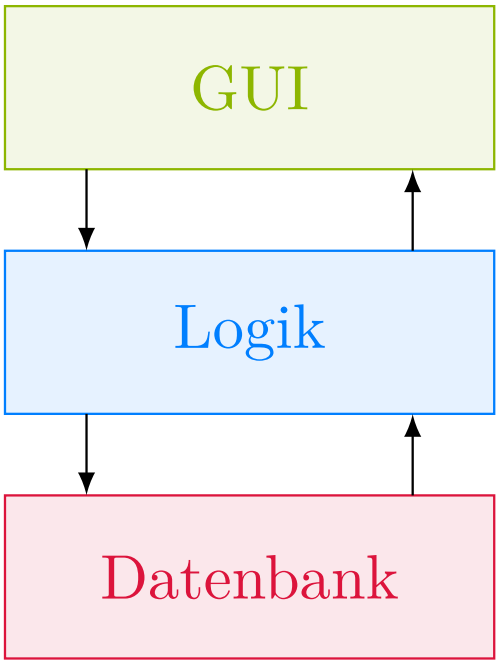
Schaltkreis/SynchronzaehlerTFF



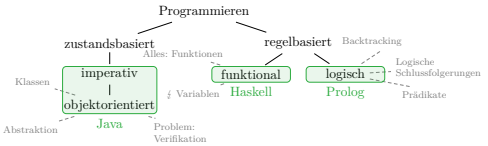
Schaltkreis/Volladdierer



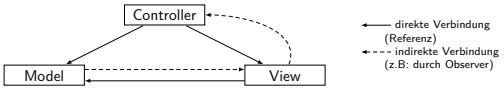
Software/DreiSchichtenArchitektur



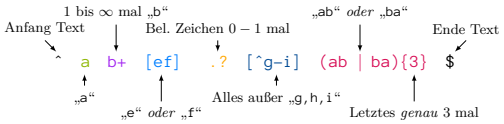
Software/Meta/ProgrammierparadigmenUeberblick



Software/ModelViewController

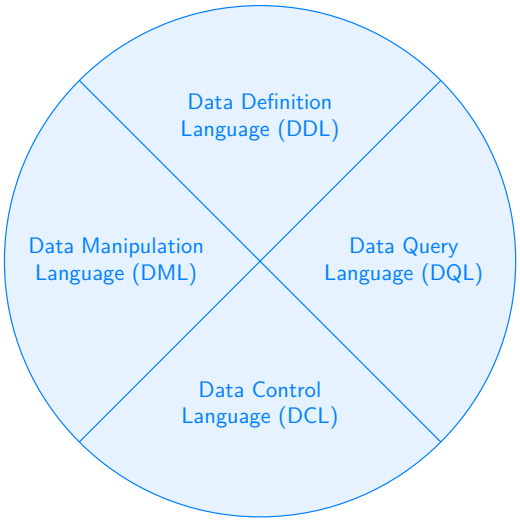


Software/RegexExample

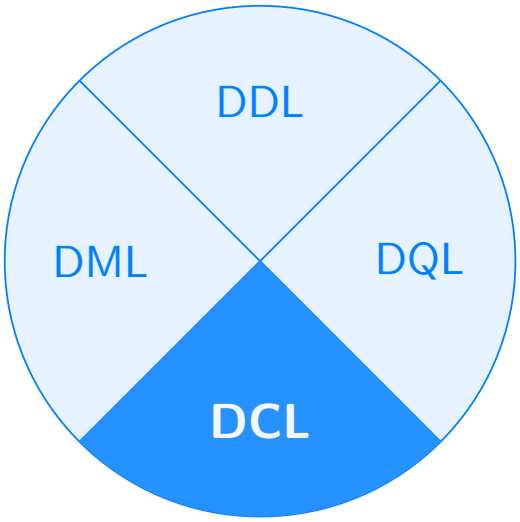


Akzeptiert	Akzeptiert nicht
abbbf#xabbaba	abbbf#**g**abbaba
abeAbababa	abbbf#oabbaba**X**

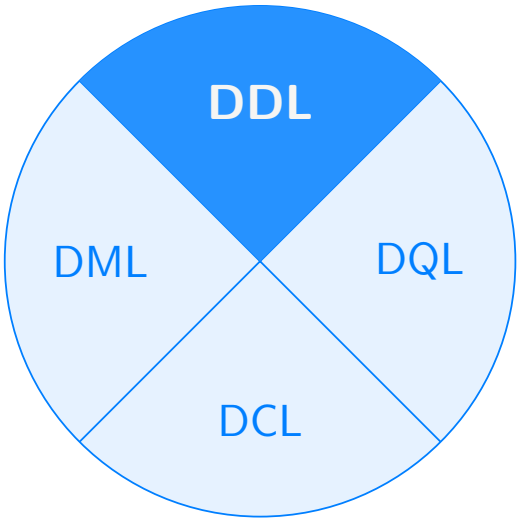
`Software/SQL/SQLFields`



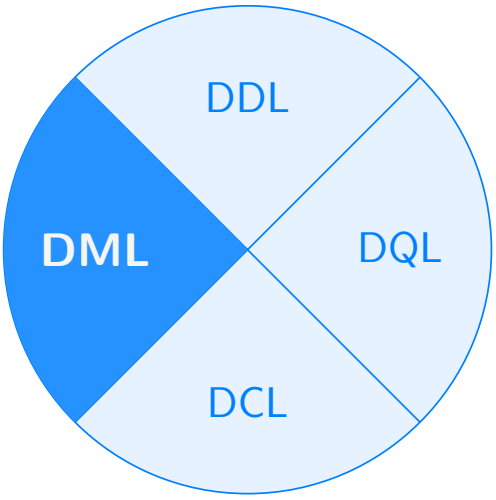
`Software/SQL/SQLFieldsDCL`



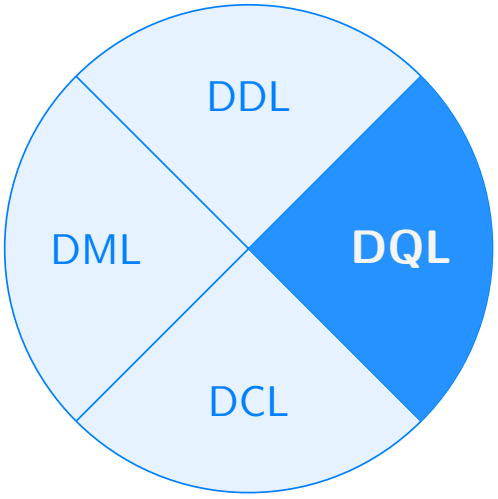
`Software/SQL/SQLFieldsDDL`



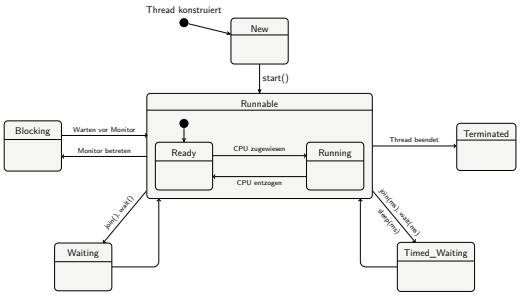
`Software/SQL/SQLFieldsDML`



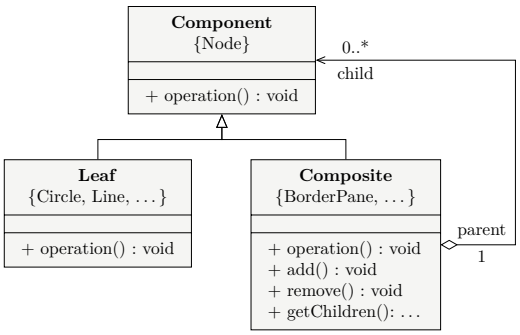
`Software/SQL/SQLFieldsDQL`



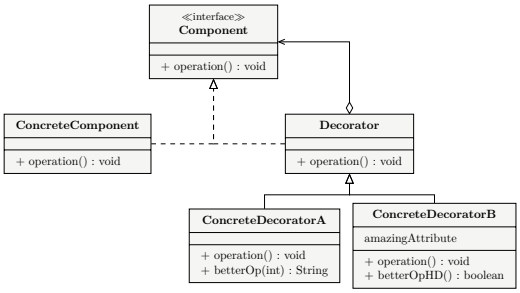
Software/ThreadStates



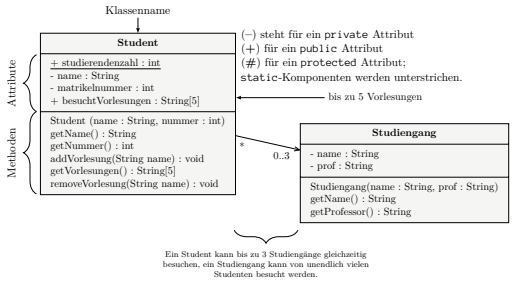
Software/UML/UMLCompositePattern



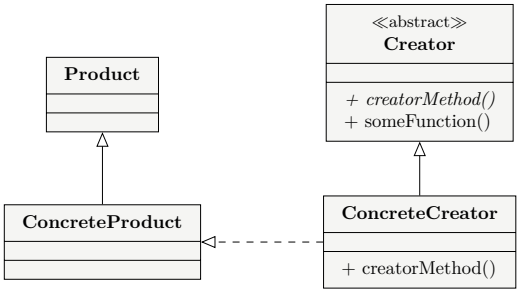
Software/UML/UMLDecoratorPattern



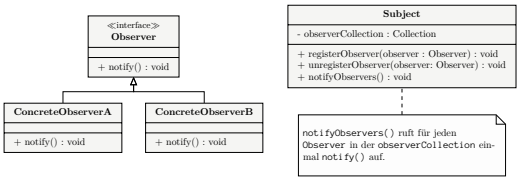
Software/UML/UMLExample



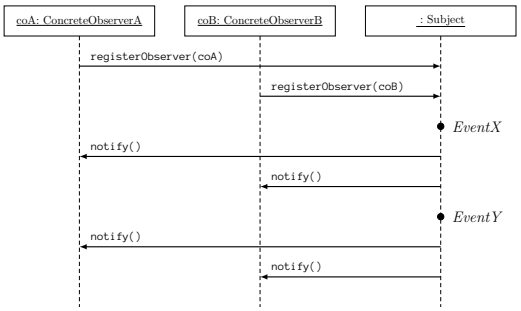
Software/UML/UMLFactoryPattern



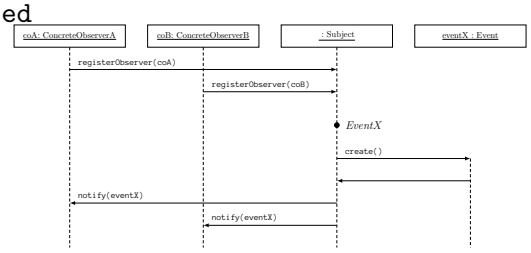
Software/UML/UMLObserverPattern



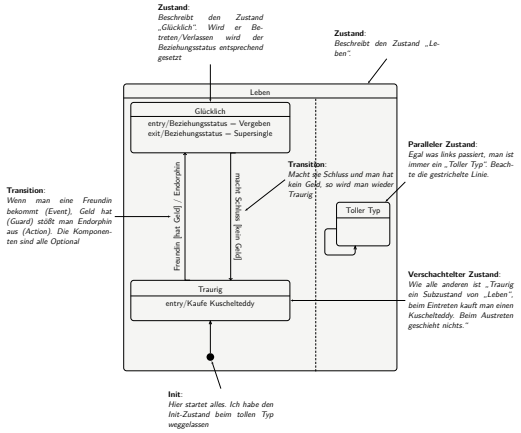
Software/UML/UMLSEQObserverPattern



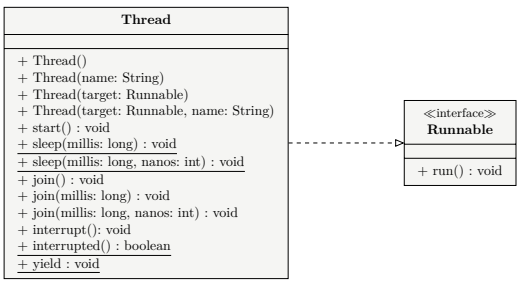
Software/UML/UMLSEQObserverPatternAdapted



Software/UML/UMLStateDiagramExample



Software/UML/UMLThread



Software/XML/XMLUebersicht

Liefert Metadaten zur Datei, `xml` ist das

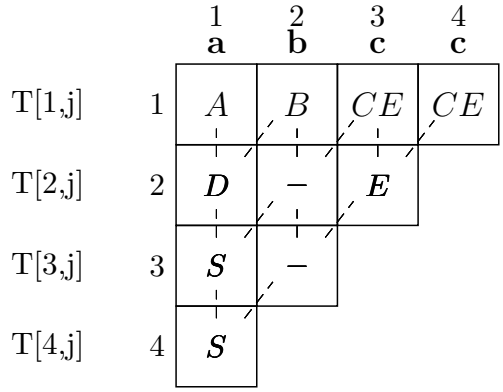
```
<?xml version="1.0" encoding
```
Kommen

Wurzelelement →
```
<blaetter> <!-- Alle Blaett
```
```
<blatt num="42" abgabe="10.
```
Kind des „`blaetter`“-Elements ↑ *Att*

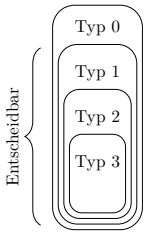
```
<aufgabe topic="Java NIO"
  <unteraufgabe nr="1.1">
```
„`punkte`“-Tag →
```
    <punkte>4</punkte>
    <text>Bitte ... &amp;
    <grafik/>
  </unteraufgabe>
</aufgabe>
</blatt>
</blaetter>
```
← *Leerer „Gr*

Verb

Sprachen/CYKAlgorithmus



Sprachen/ChomskyHierarchie



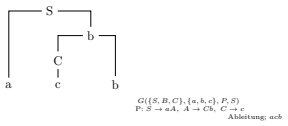
Jede Grammatik - Aber **nicht** jede Sprache
(Beispiel: π, alle irrationalen Zahlen)

Kontextsensitiv:
$|w_1| \leq |w_2| \quad \forall w_1 \to w_2 \in P$

Kontextfrei:
$w_1 \in V \quad \forall w_1 \to w_2 \in P$

Regulär:
$w_2 \in \Sigma \cup \Sigma V$
Kann von NFA und DFA realisiert werden.

Sprachen/Grammatik



$G(\{S,B,C\},\{a,b,c\},P,S)$
$P: S \to aA,\ A \to Cb,\ C \to c$
Ableitung: acb
