

GasT_EX

Graphs and Automata Simplified in T_EX

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Obsah

1 Úvod

2 Examples

- Automata and Diagrams
- Compatibility



Informácie o GasT_EXu

- Autor: Paul Gustin
- Info:
 - balík L^AT_EXových makier
 - kreslí grafy, automaty, siete a diagramy
 - používa L^AT_EXové prostredie `\picture`.
- <http://www.lsv.ens-cachan.fr/~gustin/gastex/gastex.html>

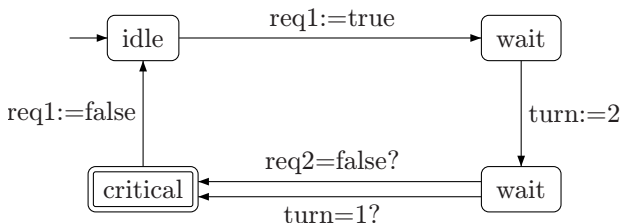


Zmeny pre PostScript

- na PostScript používame pdfTricks
- pdfTricks používa prostredie verbatim
- musíme pridať nastavenie fragile pre každé prostredie frame



Peterson automaton.



Petri Net and offsets.

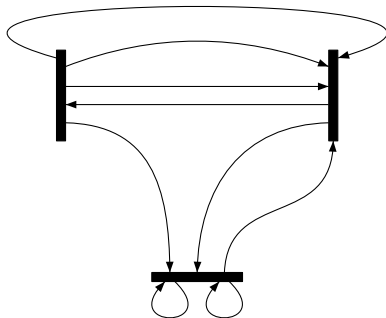
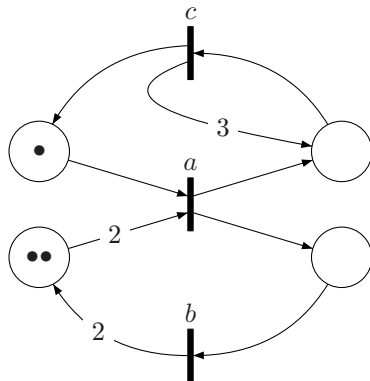


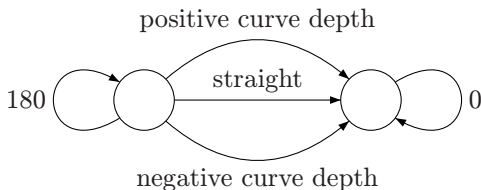
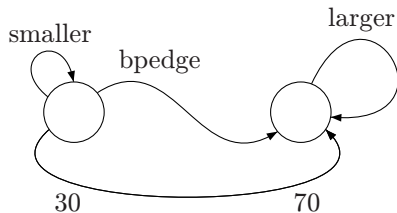
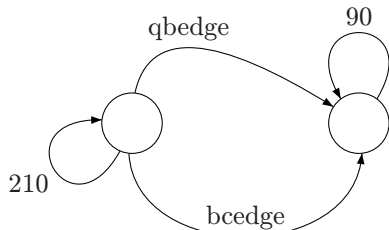
Diagram.

$$\begin{array}{ccccc}
 & \mathcal{L} & \xrightarrow{\llbracket - \rrbracket} & [F^V \rightarrow F] & \\
 & \swarrow X_M & & \searrow X_F & \\
 (\mathcal{P}(R)^V \rightarrow 2^M) & \xleftarrow{\text{Re}} & (\mathcal{P}(R)^V \rightarrow 2^{M \times \mathcal{P}(R)}) & \xrightarrow{\sqcup} & (\mathcal{P}(R)^V \rightarrow F)
 \end{array}$$

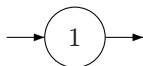
Diagram illustrating a commutative structure involving a language \mathcal{L} and its semantic interpretations. The top row shows the mapping from \mathcal{L} to the set of functions $[F^V \rightarrow F]$ via the interpretation function $\llbracket - \rrbracket$. The bottom row shows the relationship between three sets of functions: $(\mathcal{P}(R)^V \rightarrow 2^M)$, $(\mathcal{P}(R)^V \rightarrow 2^{M \times \mathcal{P}(R)})$, and $(\mathcal{P}(R)^V \rightarrow F)$. The arrows represent mappings: X_M from \mathcal{L} to $(\mathcal{P}(R)^V \rightarrow 2^M)$, X_F from \mathcal{L} to $(\mathcal{P}(R)^V \rightarrow 2^{M \times \mathcal{P}(R)})$, χ from $[F^V \rightarrow F]$ to $(\mathcal{P}(R)^V \rightarrow 2^{M \times \mathcal{P}(R)})$, Re from $(\mathcal{P}(R)^V \rightarrow 2^{M \times \mathcal{P}(R)})$ to $(\mathcal{P}(R)^V \rightarrow 2^M)$, and \sqcup from $(\mathcal{P}(R)^V \rightarrow 2^{M \times \mathcal{P}(R)})$ to $(\mathcal{P}(R)^V \rightarrow F)$.



Edges.



Nodes, colors, etc. . .



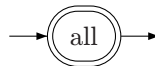
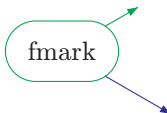
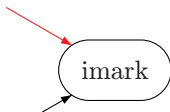
rectangle



Nadjust=n

Nadjust=w

Nadjust=wh



framed

filled

both

RedViolet

Thick

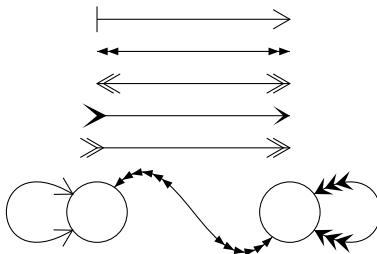
Gray

Dash

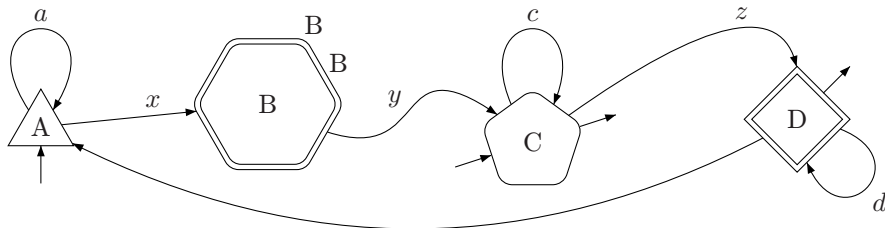
More dash



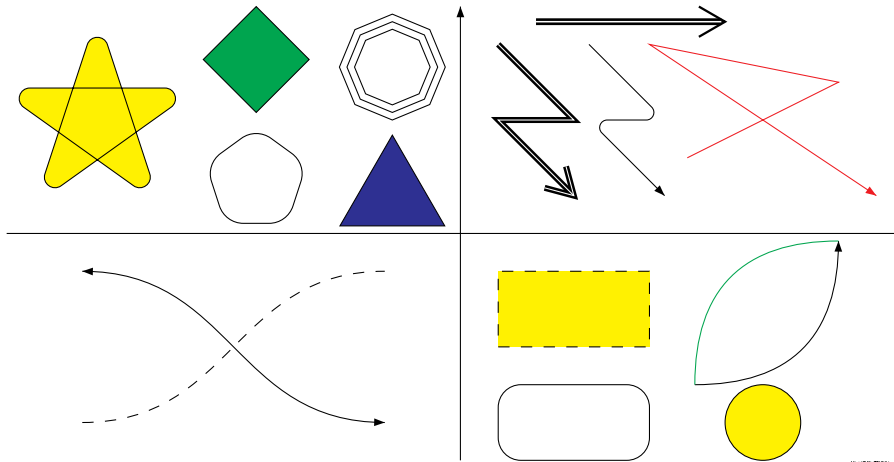
Arrows



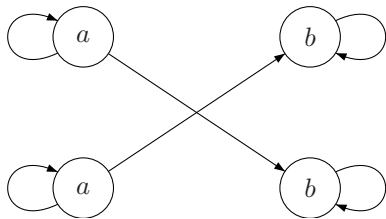
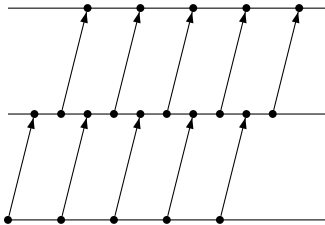
Nodes whose shape is a regular polygon



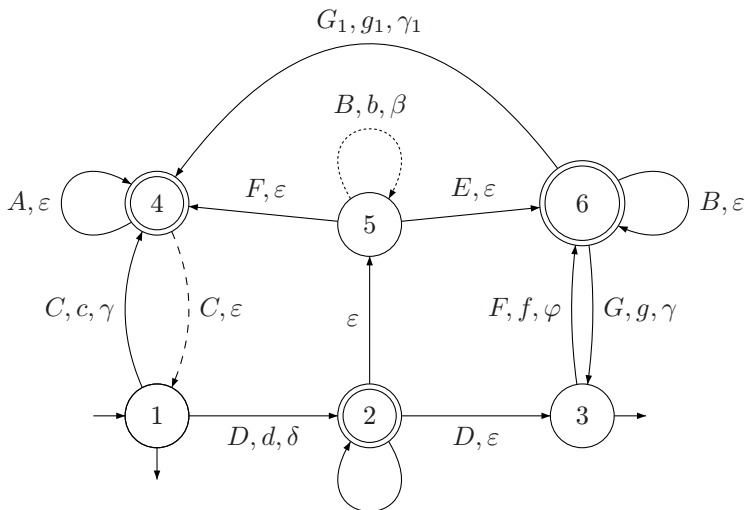
Various macros



Tricks: multiput and variables



Compatibility with gastex 1.0



Compatibility with pspictpg

