

GasT_EX

Graphs and Automata Simplified in T_EX

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Obsah

1 Úvod

2 Examples

- Automata and Diagrams
- Compatibility

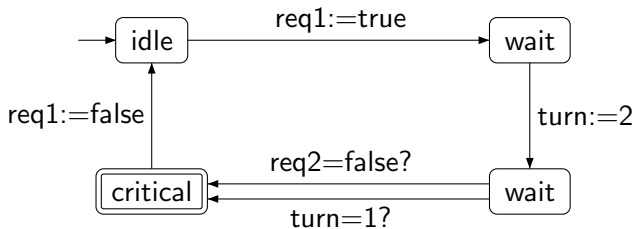
Informácie o GasT_EXu

- 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 pst-pdf
- na gastex.pro potrebujeme PSTricks
- xcolor s nastavením dvipsnames

Peterson automaton.



Petri Net and offsets.

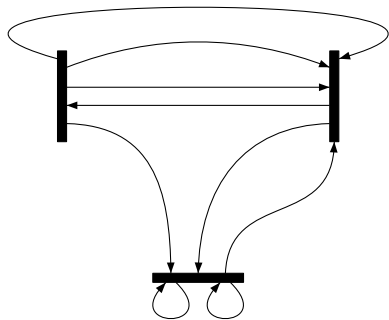
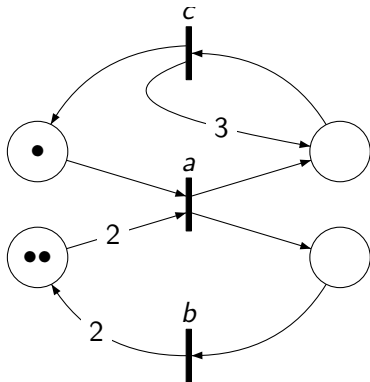


Diagram.

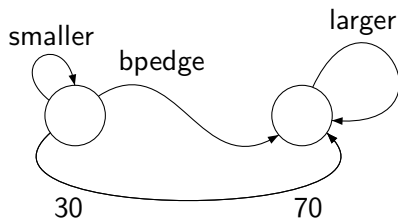
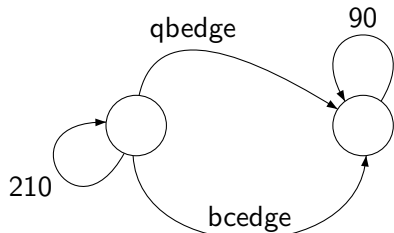
$$\begin{array}{ccccc}
 & \mathcal{L} & \xrightarrow{[-]} & [F^V \rightarrow F] & \\
 & \swarrow X_M & & \searrow X_F & \\
 (\mathcal{P}(R)^V \rightarrow 2^M) & \xleftarrow{\text{Re}} & (\mathcal{P}(R)^V \rightarrow 2^{M \times \mathcal{P}(R)}) & \xrightarrow{\sqcup} & (\mathcal{P}(R)^V \rightarrow F)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

Diagram illustrating a commutative structure involving mappings between logical expressions and their semantic interpretations.

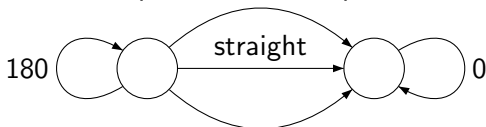
The diagram shows the following components and mappings:

- \mathcal{L} (Logical expressions) maps to $[F^V \rightarrow F]$ via the mapping $[-]$.
- \mathcal{L} maps to $(\mathcal{P}(R)^V \rightarrow 2^M)$ via the mapping X_M .
- \mathcal{L} maps to $(\mathcal{P}(R)^V \rightarrow 2^{M \times \mathcal{P}(R)})$ via the mapping X_F .
- $[F^V \rightarrow F]$ maps to $(\mathcal{P}(R)^V \rightarrow 2^{M \times \mathcal{P}(R)})$ via the mapping χ .
- $(\mathcal{P}(R)^V \rightarrow 2^M)$ maps to $(\mathcal{P}(R)^V \rightarrow 2^{M \times \mathcal{P}(R)})$ via the mapping Re .
- $(\mathcal{P}(R)^V \rightarrow 2^{M \times \mathcal{P}(R)})$ maps to $(\mathcal{P}(R)^V \rightarrow F)$ via the mapping \sqcup .

Edges.

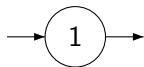


positive curve depth



negative curve depth

Nodes, colors, etc. . .



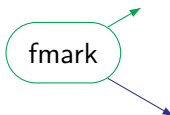
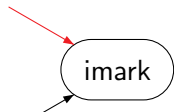
rectangle

oval

Nadjust=n

Nadjust=w

Nadjust=wh



framed

filled

both

RedViolet

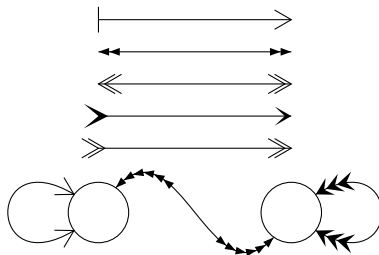
Thick

Gray

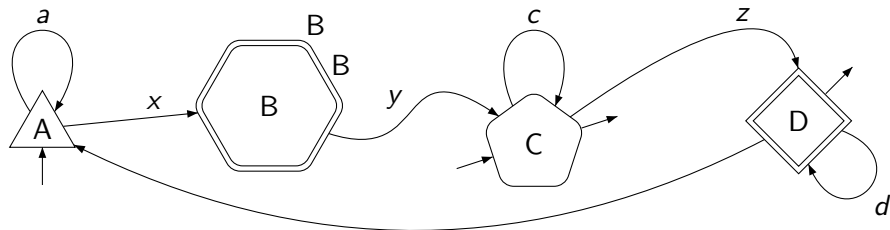
Dash

More dash

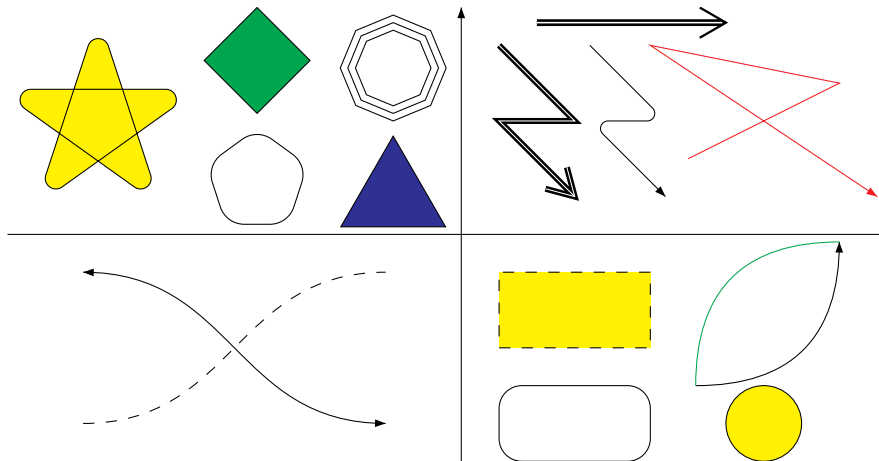
Arrows



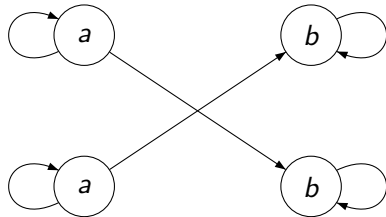
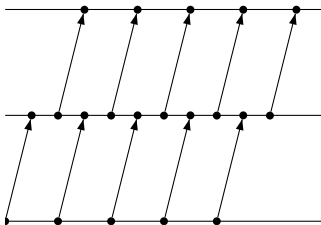
Nodes whose shape is a regular polygon



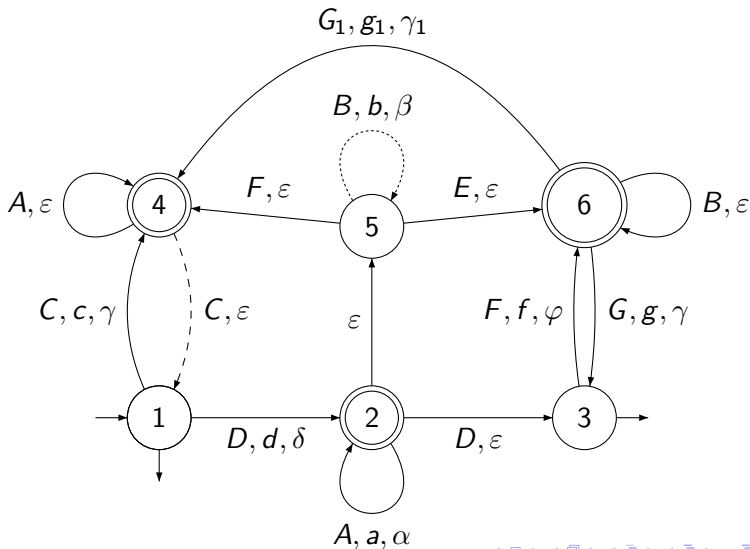
Various macros



Tricks: multiput and variables



Compatibility with gastex 1.0



Compatibility with pspictpg

