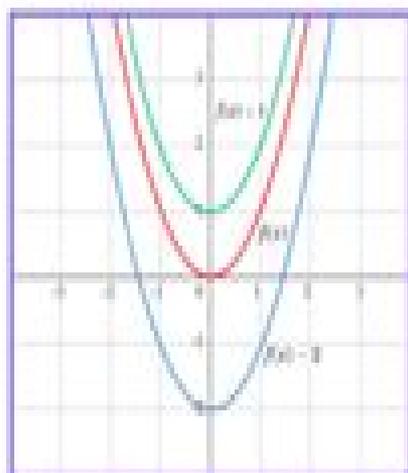


# Graph Transformations

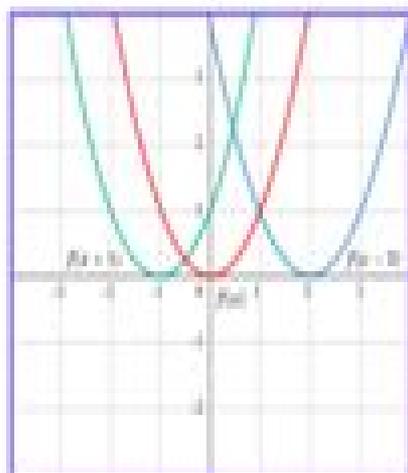
## Translations



$$f(x) + a$$

Translation by  
vector  $\begin{pmatrix} 0 \\ a \end{pmatrix}$  

Add  $a$  to the  $y$   
coordinate

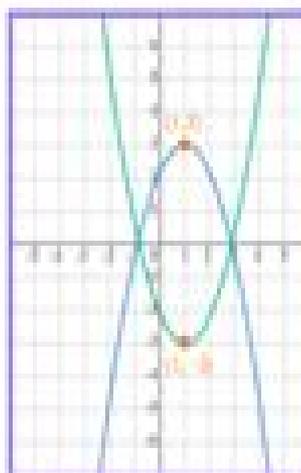


$$f(x - a)$$

Translation by  
vector  $\begin{pmatrix} a \\ 0 \end{pmatrix}$  

Add  $a$  to the  $x$   
coordinate

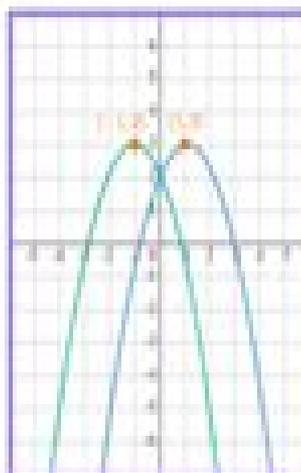
## Reflections



$$-f(x)$$

Reflection in  
the  $x$ -axis 

Multiply the  $y$   
coordinates by  $-1$



$$f(-x)$$

Reflection in  
the  $y$ -axis 

Multiply the  $x$   
coordinates by  $-1$

# Graph Transformations In Computer Scienc

**Sebastian Brünink**



## **Graph Transformations In Computer Scienc:**

**Graph Transformations in Computer Science** Hans J. Schneider, Hartmut Ehrig, 1994-03-28 The research area of graph grammars and graph transformations dates back only two decades But already methods and results from the area of graph transformation have been applied in many fields of computer science such as formal language theory pattern recognition and generation compiler construction software engineering concurrent and distributed systems modelling and database design and theory This volume contains 24 selected and revised papers from an international seminar held in Dagstuhl Germany in 1993 The papers cover topics in the following areas foundations of graph grammars and transformations and applications of graph transformations to concurrent computing specification and programming and pattern generation and recognition *Handbook of Graph Grammars and Computing by Graph Transformation* Hartmut Ehrig, Grzegorz Rozenberg, Hans-Jörg Kreowski, 1997 Graph grammars originated in the late 60s motivated by considerations about pattern recognition and compiler construction Since then the list of areas which have interacted with the development of graph grammars has grown quite impressively Besides the aforementioned areas it includes software specification and development VLSI layout schemes database design modeling of concurrent systems massively parallel computer architectures logic programming computer animation developmental biology music composition visual languages and many others The area of graph grammars and graph transformations generalizes formal language theory based on strings and the theory of term rewriting based on trees As a matter of fact within the area of graph grammars graph transformation is considered a fundamental computation paradigm where computation includes specification programming and implementation Over the last three decades graph grammars have developed at a steady pace into a theoretically attractive and important for applications research field Volume 3 of the indispensable *Handbook of Graph Grammars and Computing by Graph Transformations* presents the research on concurrency parallelism and distribution important paradigms of modern science The topics considered include semantics for concurrent systems modeling of concurrency mobile and coordinated systems algebraic specifications Petri nets visual design of distributed systems and distributed algorithms The contributions have been written in a tutorial survey style by the top experts *Handbook of Graph Grammars and Computing by Graph Transformation* Grzegorz Rozenberg, 1997-01-01 Graph grammars originated in the late 60s motivated by considerations about pattern recognition and compiler construction Since then the list of areas which have interacted with the development of graph grammars has grown quite impressively Besides the aforementioned areas it includes software specification and development VLSI layout schemes database design modeling of concurrent systems massively parallel computer architectures logic programming computer animation developmental biology music composition visual languages and many others The area of graph grammars and graph transformations generalizes formal language theory based on strings and the theory of term rewriting based on trees As a matter of fact within the area of graph grammars graph transformation is

considered a fundamental programming paradigm where computation includes specification programming and implementation

Handbook Of Graph Grammars And Computing By Graph Transformation, Vol 1: Foundations Grzegorz Rozenberg,1997-02-27 Graph grammars originated in the late 60s motivated by considerations about pattern recognition and compiler construction Since then the list of areas which have interacted with the development of graph grammars has grown quite impressively Besides the aforementioned areas it includes software specification and development VLSI layout schemes database design modeling of concurrent systems massively parallel computer architectures logic programming computer animation developmental biology music composition visual languages and many others The area of graph grammars and graph transformations generalizes formal language theory based on strings and the theory of term rewriting based on trees As a matter of fact within the area of graph grammars graph transformation is considered a fundamental programming paradigm where computation includes specification programming and implementation Over the last 25 odd years graph grammars have developed at a steady pace into a theoretically attractive and well motivated research field In particular they are now based on very solid foundations which are presented in this volume Volume 1 of the indispensable Handbook of Graph Grammars and Computing by Graph Transformations includes a state of the art presentation of the foundations of all the basic approaches to rule based graph specification and transformation algebraic approach logic approach node based rewriting hyper edge based rewriting programmed graph rewriting and 2 structures The book has been written in a tutorial survey style to enhance its usefulness

Graph and Model Transformation Hartmut Ehrig,Claudia Ermel,Ulrike Golas,Frank Hermann,2015-12-21 This book is a comprehensive explanation of graph and model transformation It contains a detailed introduction including basic results and applications of the algebraic theory of graph transformations and references to the historical context Then in the main part the book contains detailed chapters on M adhesive categories M adhesive transformation systems and multi amalgamated transformations and model transformation based on triple graph grammars In the final part of the book the authors examine application of the techniques in various domains including chapters on case studies and tool support The book will be of interest to researchers and practitioners in the areas of theoretical computer science software engineering concurrent and distributed systems and visual modelling

Handbook Of Graph Grammars And Computing By Graph Transformations, Vol 3: Concurrency, Parallelism, And Distribution Grzegorz Rozenberg,Hartmut Ehrig,Hans-jorg Kreowski,Ugo Montanari,1999-08-30 Graph grammars originated in the late 60s motivated by considerations about pattern recognition and compiler construction Since then the list of areas which have interacted with the development of graph grammars has grown quite impressively Besides the aforementioned areas it includes software specification and development VLSI layout schemes database design modeling of concurrent systems massively parallel computer architectures logic programming computer animation developmental biology music composition visual languages and many others The area of graph grammars and graph transformations generalizes formal language theory based on strings and the

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**Graph Grammars and Their Application to Computer Science** Hartmut Ehrig, Hans-Jörg Kreowski, 1991-09-11 This volume contains papers selected from the contributions to the 4th International Workshop on Graph Grammars and Their Application to Computer Science It is intended to provide a rich source of information on the state of the art and newest trends to researchers active in the area and for scientists who would like to know more about graph grammars The topics of the papers range from foundations through algorithmic and implemental aspects to various issues that arise in application areas like concurrent computing functional and logic programming software engineering computer graphics artificial intelligence and biology The contributing authors are F J Brandenburg H Bunke T C Chen M Chytil B Courcelle J Engelfriet H Gttler A Habel D Janssens C Lautemann B Mayoh U Montanari M Nagl F Parisi Presicci A Paz P Prusinkiewicz M R Sleep A Rosenfeld J Winkowski and others

**Graph Transformations** Hartmut Ehrig, Gregor Engels, Francesco Parisi-Presicce, Grzegorz Rozenberg, 2004-11-11 ICGT 2004 was the 2nd International Conference on Graph Transformation following the first one in Barcelona 2002 and a series of six international workshops on graph grammars with applications in computer science between 1978 and 1998 ICGT 2004 was held in Rome Italy Sept 29 Oct 1 2004 under the auspices of the European Association for Theoretical Computer Science EATCS the European Association of Software Science and Technology EASST and the IFIP WG 1.3 Foundations of Systems Specification The scope of the conference concerned graphical structures of various kinds like graphs diagrams visual sentences and others that are useful when describing complex structures and systems in a direct and intuitive way These structures are often augmented with formalisms that add to the static description a further dimension allowing for the modelling of the evolution of systems via all kinds of transformations of such graphical structures The field of graph transformation is concerned with the theory applications and implementation issues of such formalisms The theory is strongly related to areas such as graph theory and graph algorithms formal language and parsing theory the theory of concurrent and distributed systems formal specification and verification logic and semantics The application areas include all those fields of computer science information processing engineering and the natural sciences where static and dynamic modelling using graphical structures and graph transformations respectively play important roles In

many of these areas tools based on graph transformation technology have been implemented and used

*Graph Transformations in Computer Science* Hans J. Schneider, Hartmut Ehrig, 2014-01-15

**Graph Transformation for Software Engineers** Reiko Heckel, Gabriele Taentzer, 2020-05-13 This book is an introduction to graph transformation as a foundation to model based software engineering at the level of both individual systems and domain specific modelling languages The first part of the book presents the fundamentals in a precise yet largely informal way Besides serving as prerequisite for describing the applications in the second part it also provides a comprehensive and systematic survey of the concepts notations and techniques of graph transformation The second part presents and discusses a range of applications to both model based software engineering and domain specific language engineering The variety of these applications demonstrates how broadly graphs and graph transformations can be used to model analyse and implement complex software systems and languages This is the first textbook that explains the most commonly used concepts notations techniques and applications of graph transformation without focusing on one particular mathematical representation or implementation approach Emphasising the research and engineering methodologies used it will be a valuable resource for graduate students practitioners and researchers in software engineering foundations of programming and formal methods

*Graph Transformation*, 2002

**Graph-transformations in Computer Science** Internationales Begegnungs- und Forschungszentrum für Informatik, Dagstuhl Seminar Graph Transformations in Computer Science. 1993, Dagstuhl, 1993

**Graph-theoretic Concepts in Computer Science**, 2002

**Handbook of Graph Grammars and Computing by Graph Transformation** Hartmut Ehrig, 1997 Graph grammars originated in the late 60s motivated by considerations about pattern recognition and compiler construction Since then the list of areas which have interacted with the development of graph grammars has grown quite impressively Besides the aforementioned areas it includes software specification and development VLSI layout schemes database design modeling of concurrent systems massively parallel computer architectures logic programming computer animation developmental biology music composition visual languages and many others The area of graph grammars and graph transformations generalizes formal language theory based on strings and the theory of term rewriting based on trees As a matter of fact within the area of graph grammars graph transformation is considered a fundamental computation paradigm where computation includes specification programming and implementation Over the last three decades graph grammars have developed at a steady pace into a theoretically attractive and important for applications research field Volume 2 of the indispensable Handbook of Graph Grammars and Computing by Graph Transformations considers applications to functional languages visual and object oriented languages software engineering mechanical engineering chemical process engineering and images It also presents implemented specification languages and tools and structuring and modularization concepts for specification languages The contributions have been written in a tutorial survey style by the top experts in the corresponding areas This volume is accompanied by a CD Rom

containing implementations of specification environments based on graphtransformation systems and tools whose implementation is based on the use of graph transformation systems

**Mathematical Foundations of Computer Science** ,2004

**Graph Transformations** Andrea Corradini,Hartmut Ehrig,Ugo Montanari,Leila Ribeiro,Grzegorz Rozenberg,2006-09-21 This book constitutes the refereed proceedings of the Third International Conference on Graph Transformations ICGT 2006 The book presents 28 revised full papers together with 3 invited lectures All current aspects in graph drawing are addressed including graph theory and graph algorithms theoretic and semantic aspects modeling tool issues and more Also includes accounts of a tutorial on foundations and applications of graph transformations and of ICGT Conference satellite events

**Theory and Application of Graph Transformations** Hartmut Ehrig,2000-03-02 This book constitutes the thoroughly refereed post workshop proceedings of the 6th International Workshop on Theory and Applications of Graph Transformations held in Paderborn Germany in November 1998 The 33 revised full papers presented in the book were carefully reviewed and selected from a total of 55 papers presented at the meeting The book addresses all current aspects in the area The papers are organized in sections on graph languages graph theory categorical approaches concurrency and distribution artificial intelligence visual languages specification concepts modularity and refinement and software engineering

**Graph Transformations** Hartmut Ehrig,2004-09-17 This book constitutes the refereed proceedings of the Second International Conference on Graph Transformation ICGT 2004 held in Rome Italy in September October 2004 The 26 revised full papers presented together with three invited contributions and summaries of 2 tutorials and 5 workshops were carefully reviewed and selected from 58 submissions The papers are organized in topical sections on integration technology chemistry and biology graph transformation concepts DPO theory for high level structures analysis and testing graph theory and algorithms application conditions and logic transformation of special structures and object orientation

**Graph-grammars and Their Application to Computer Science** ,1987

**Foundations of Software Science and Computation Structures** ,2004

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