

Introduction to AMPL

A Tutorial*

September 13, 2000

AMPL is a powerful language designed specifically for mathematical programming. AMPL has many features and options; however this tutorial covers a small subset of these¹. Sections 1 through 5 provide an introduction to modeling Linear Programming (LP) problems with AMPL. Sections 6 and 7 introduce AMPL's modeling capabilities for Integer Programming (IP) and Nonlinear Programming (NLP), respectively.

1 A Simple LP Model

Consider the following example. Berkeley Paint Company makes two colors of paint, blue and gold. The blue paint sells for \$10 per gallon, while the gold paint sells for \$15 per gallon. The company has one factory, and can make only one color of paint at a time. However, blue paint is easier to make so the factory can make 40 gallons per hour of blue paint, but only 30 gallons per hour of gold paint. In addition, the marketing department tells manufacturing that they can sell at most 860 gallons of gold paint and 1000 gallons of blue paint. If a week is 40 hours and paint can't be stored until next week, we need to determine how many gallons of blue and gold paint to make; so that the total revenue is maximized.

Let $PaintB$ represent the gallons of blue paint we will make, and $PaintG$ represent the gallons of gold paint we will make. Then the problem is formulated as the following LP:

$$\begin{array}{ll}\max & 10PaintB + 15PaintG \\ \text{s.t. :} & (1/40)PaintB + (1/30)PaintG \leq 40 \\ & 0 \leq PaintB \leq 1000 \\ & 0 \leq PaintG \leq 860.\end{array}$$

AMPL is designed to allow mathematical programs to be entered in a syntax very close to the algebraic notation you see above. To use AMPL, we need to create a text file with the mathematical program code.

To create a text file, you can use any text editor you feel comfortable with. For example, you can use **Notepad**, which is found on every Windows 95 and Windows NT system. To create the following program file, start **Notepad**, and enter the following text.

^{*}This tutorial was originally prepared by P. Kaminsky. The original version is later modified and expanded by D. Rajan.

¹For more information, see the book

AMPL: A Modeling Language for Mathematical Programming by R. Fourer, D. M. Gay, and B. W. Kernighan
(1990: Boyd & Fraser)

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Padhraic Smyth



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Introduction To Ampl A Tutorial Uc Berkeley Ieor Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Introduction To Ampl A Tutorial Uc Berkeley Ieor**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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