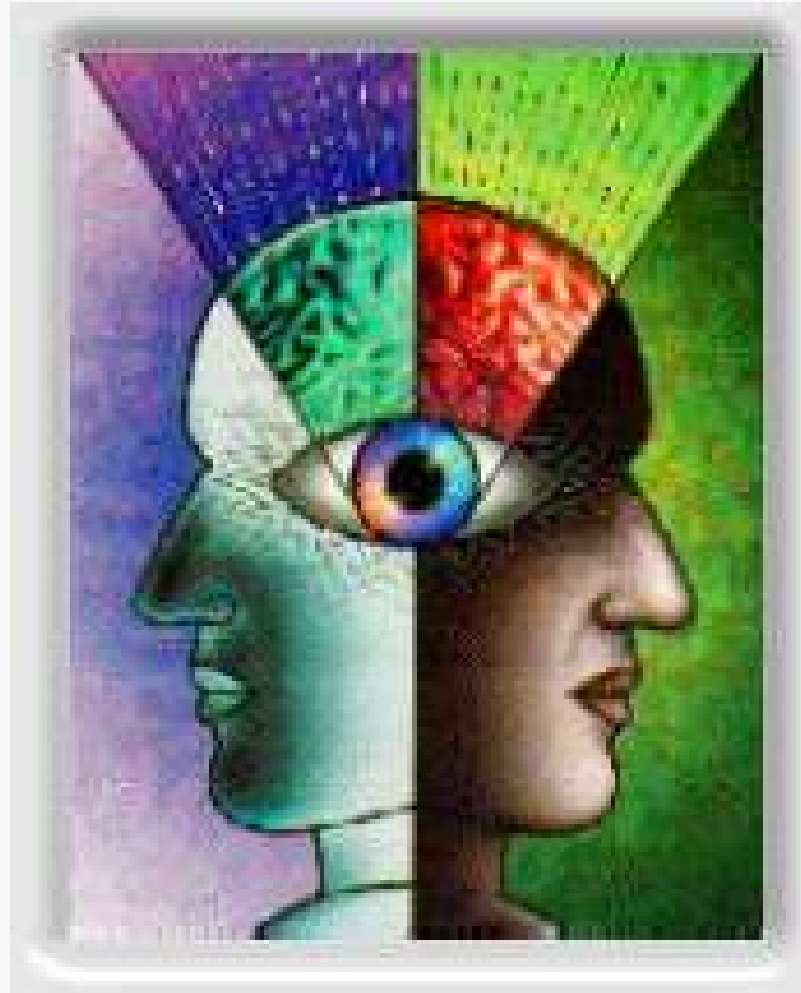


Artificial Cognition™



Artificial Cognition, Inc.

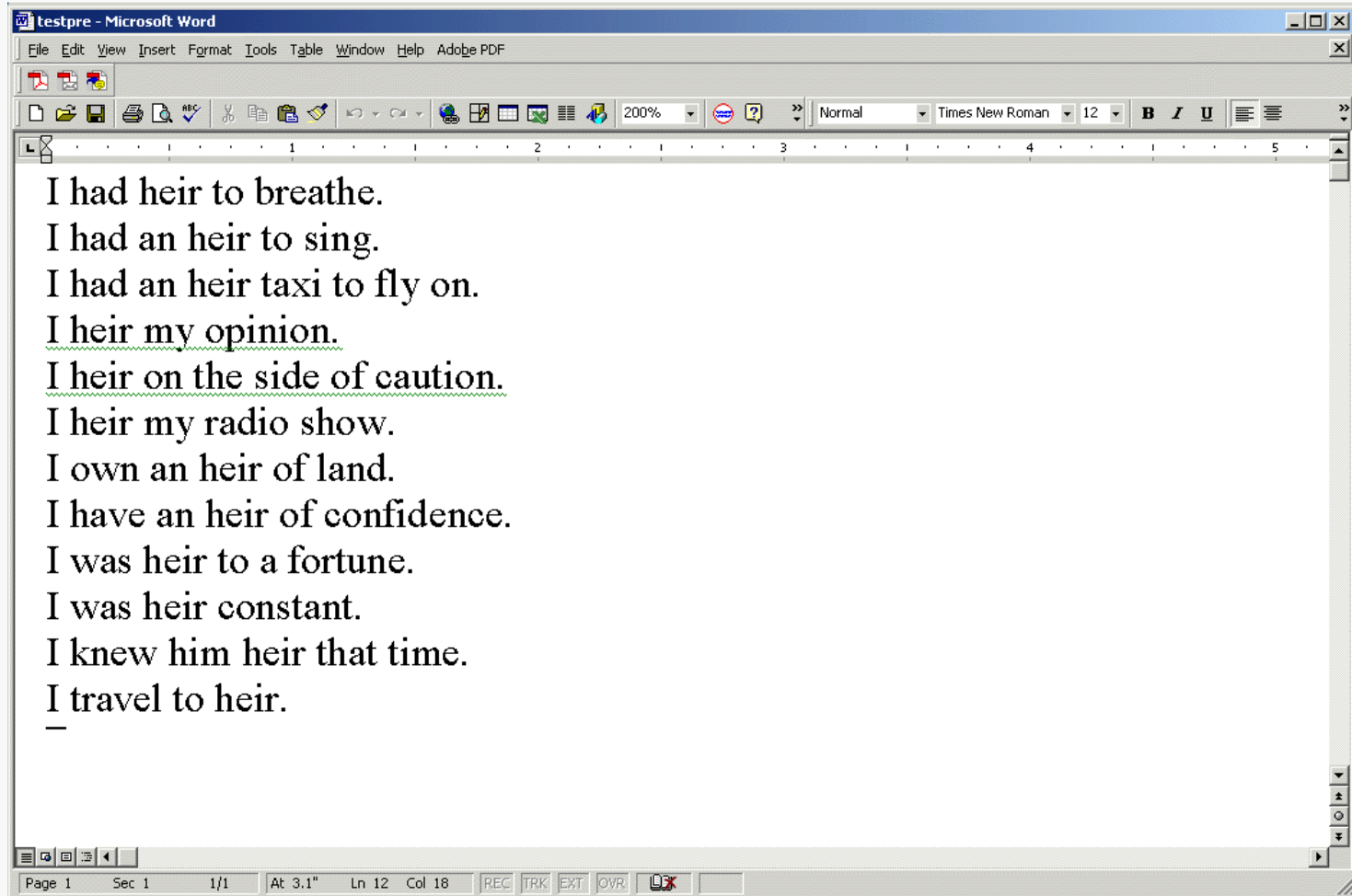
What is Artificial Cognition?

- **Words, as they and their definitions are stored in computers today, do not include any clues to their relative closeness or the relationships between the meanings.**
- **Imagine a system that lets you define words so the definitions are quantitative and can be operated on directly—arithmetically and logically—in a computer.**
- **With this system, computers can understand concepts, because we have developed it to represent concepts in digital format. Taking 12 sentences with the word air in various contexts and misspelled, we can correctly spell check them based on the context meaning.**

Artificial Cognitionは、曖昧性を除去します

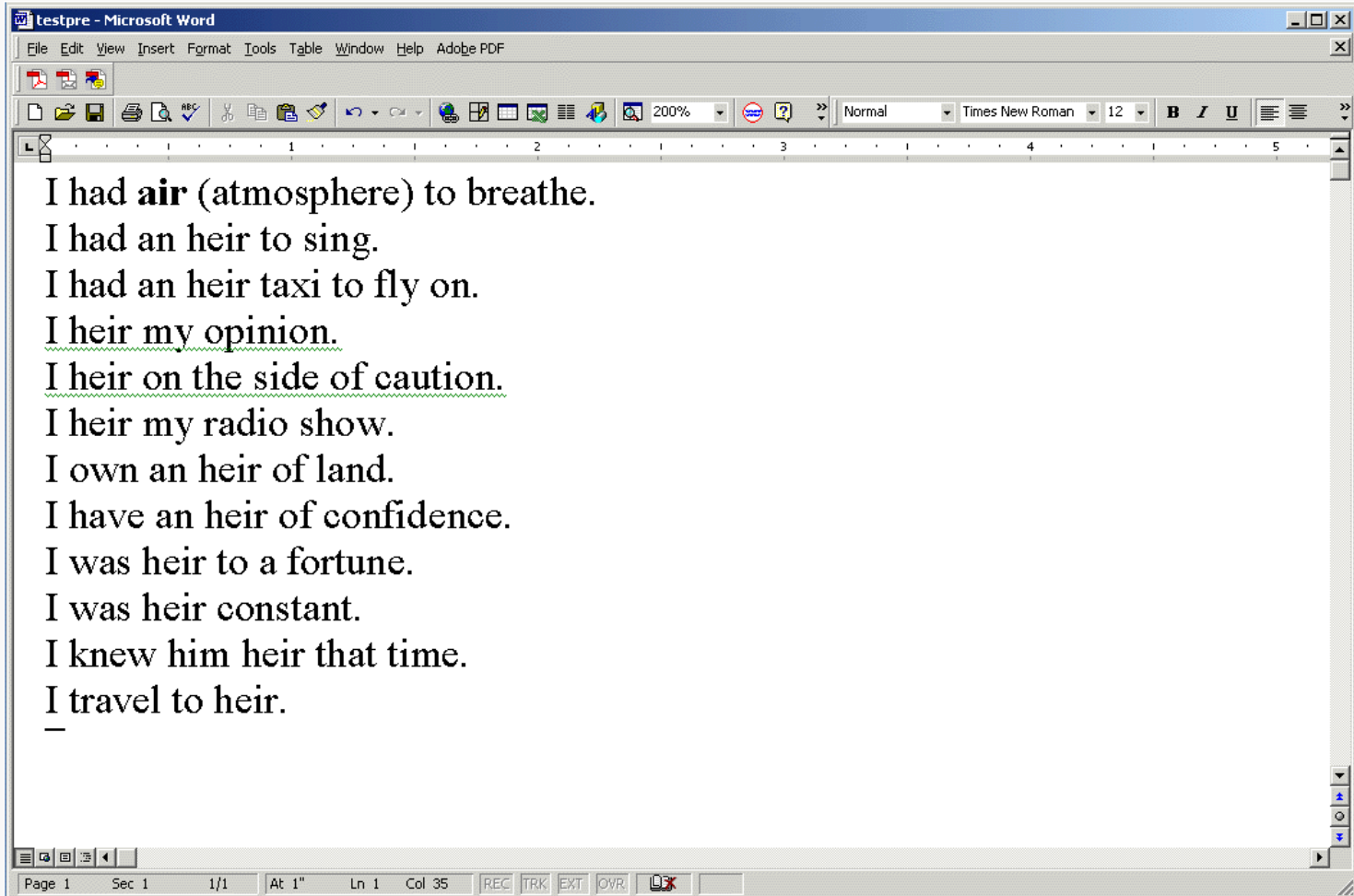
- 今日のコンピューターにその定義が記憶されている語彙は、それぞれの本来の意味との相対的近さや関係を示す手がかりを持っていません。
- 語彙の定義が量的に与えられ、それがコンピューター上で一算術・論理演算で一操作できるシステムを想像してください。
- このシステムでは、概念をデジタル形式で表現することを開発したので、コンピューターは概念を理解することが出来ます。単語airが異なる文脈で使われ、さらにミススペルのある11の例文を例にとり、文脈の意味に基づいてスペルチェックを行います。

WRONG!

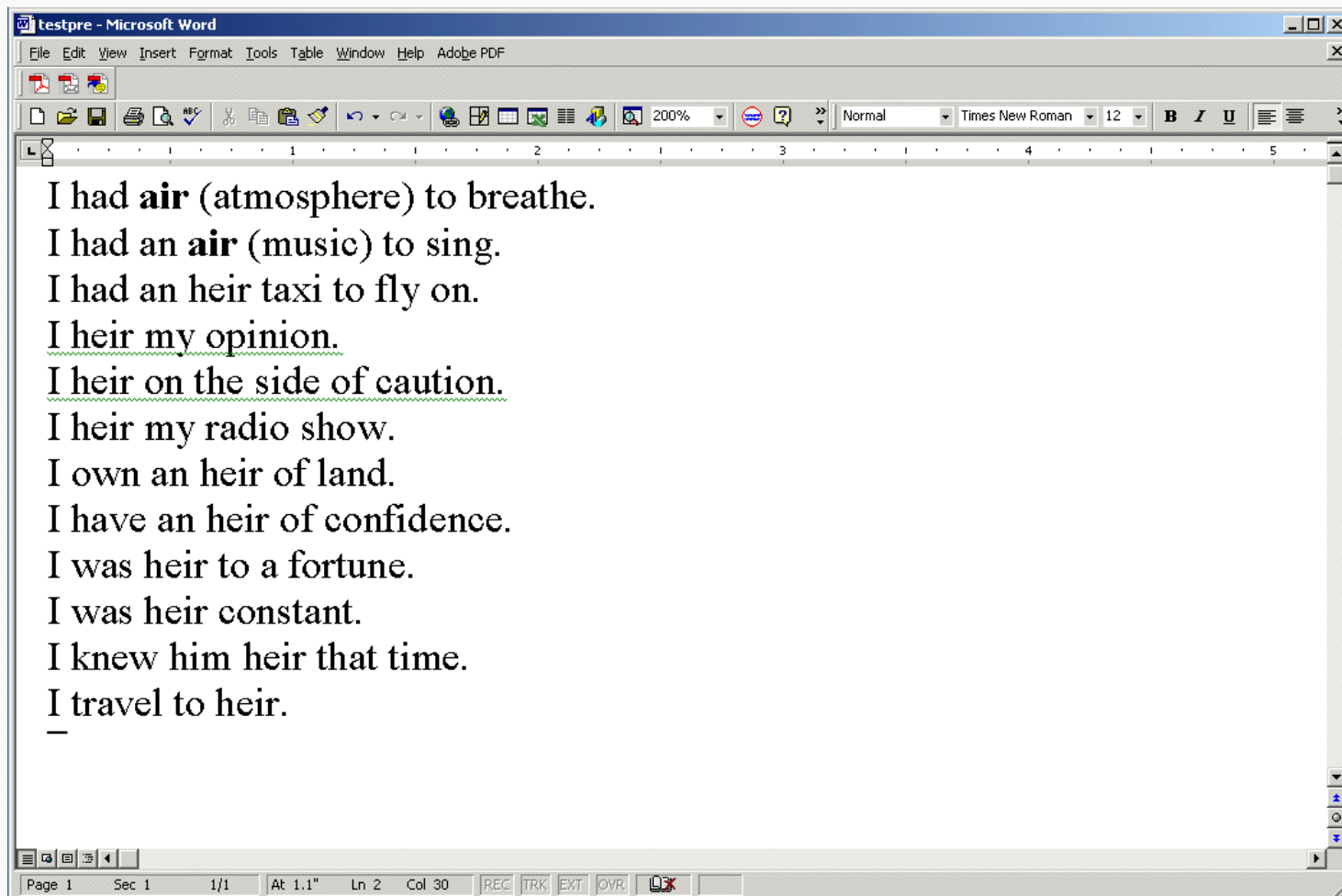


Artificial Cognition, Inc.

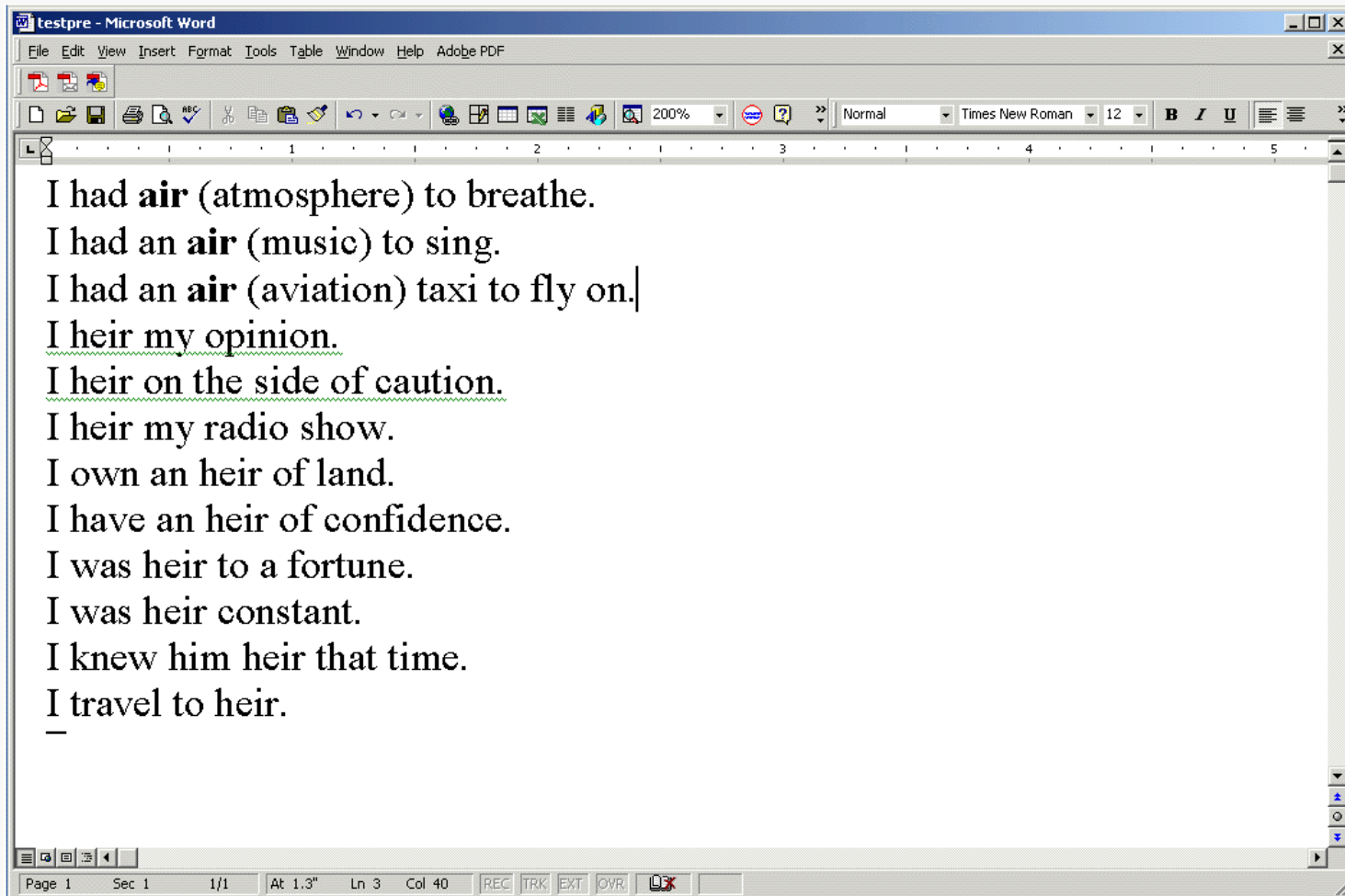
Line 1 Corrected



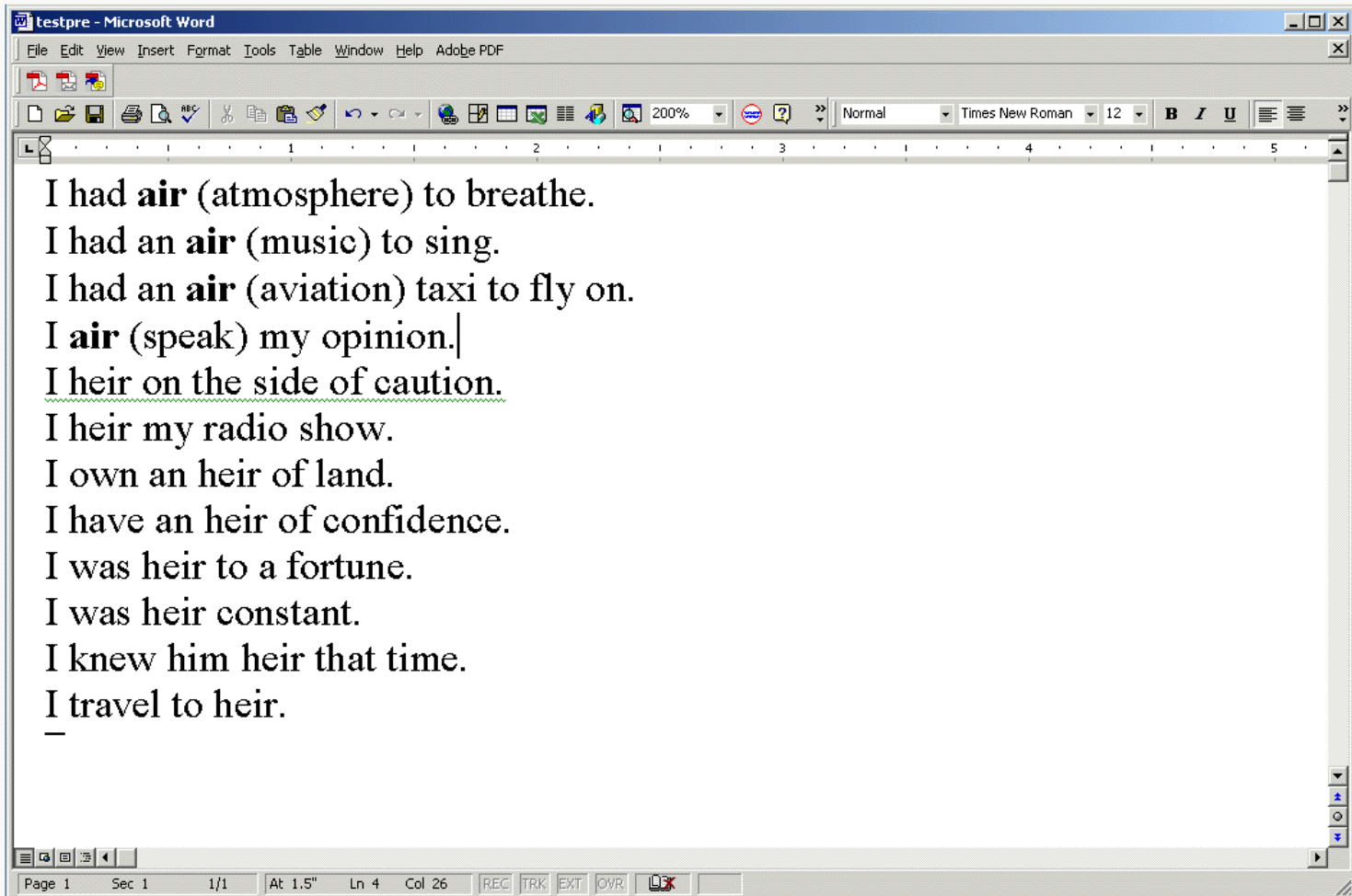
Line 2 Corrected



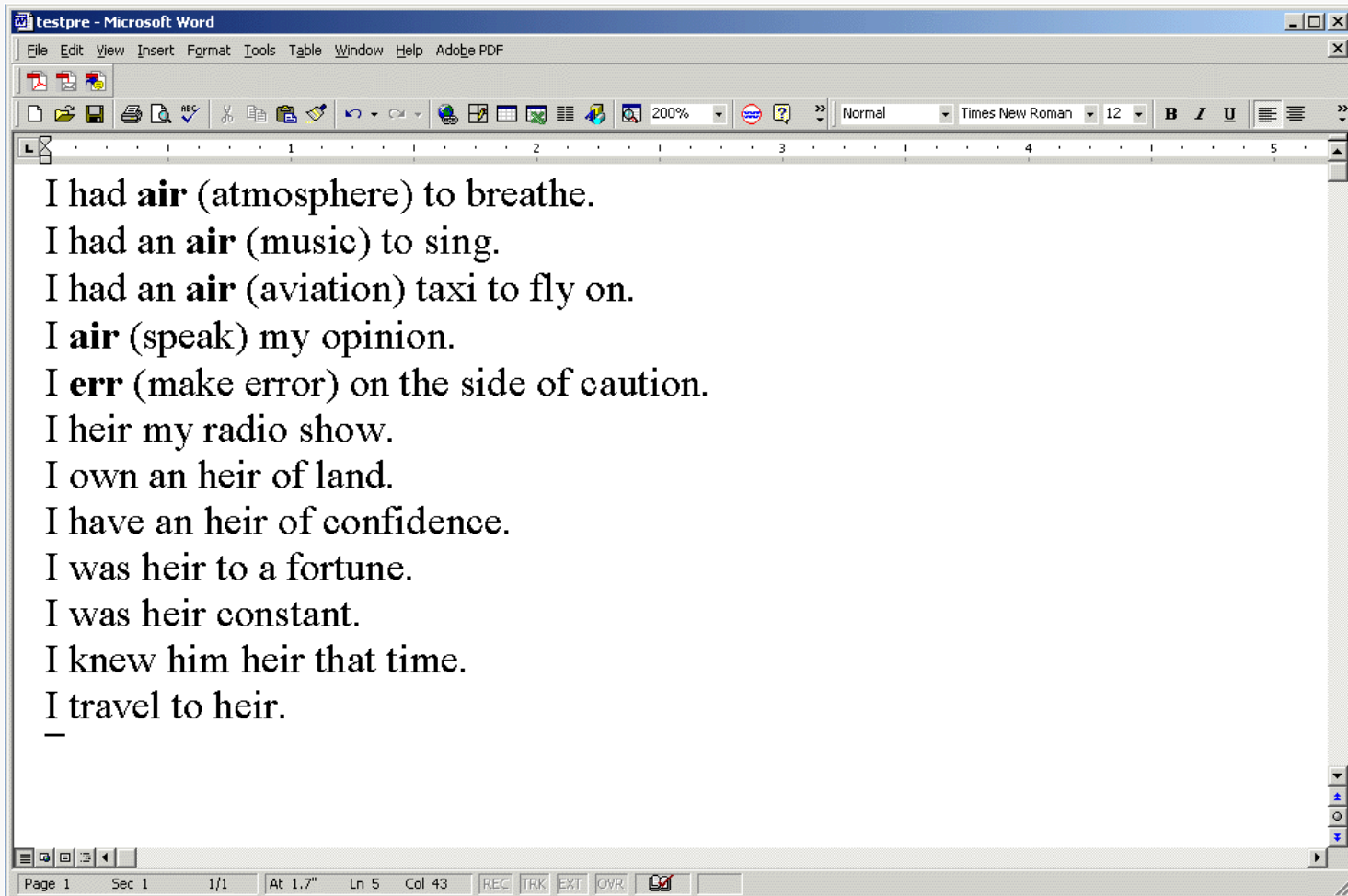
Line 3 Corrected



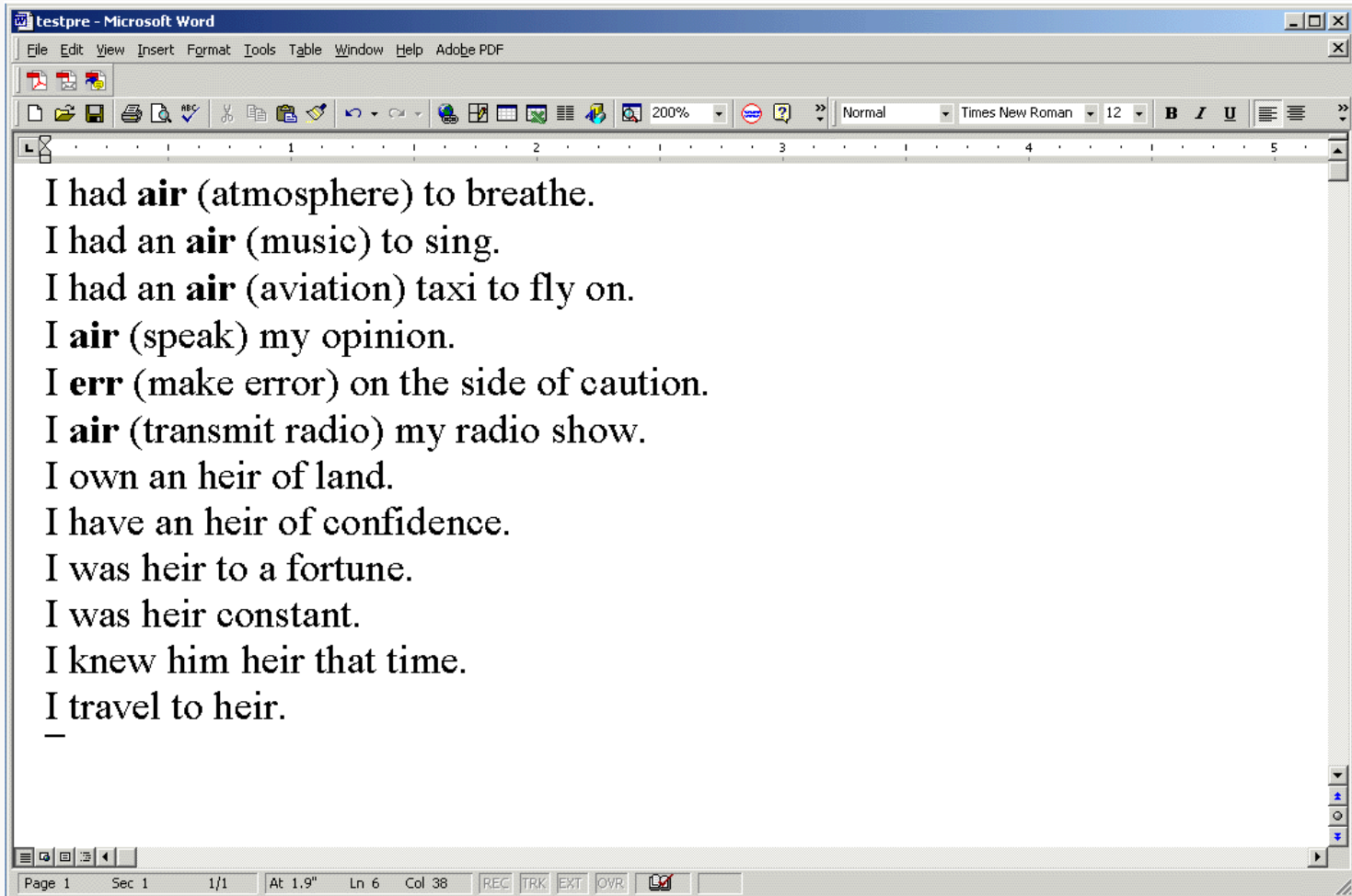
Line 4 Corrected



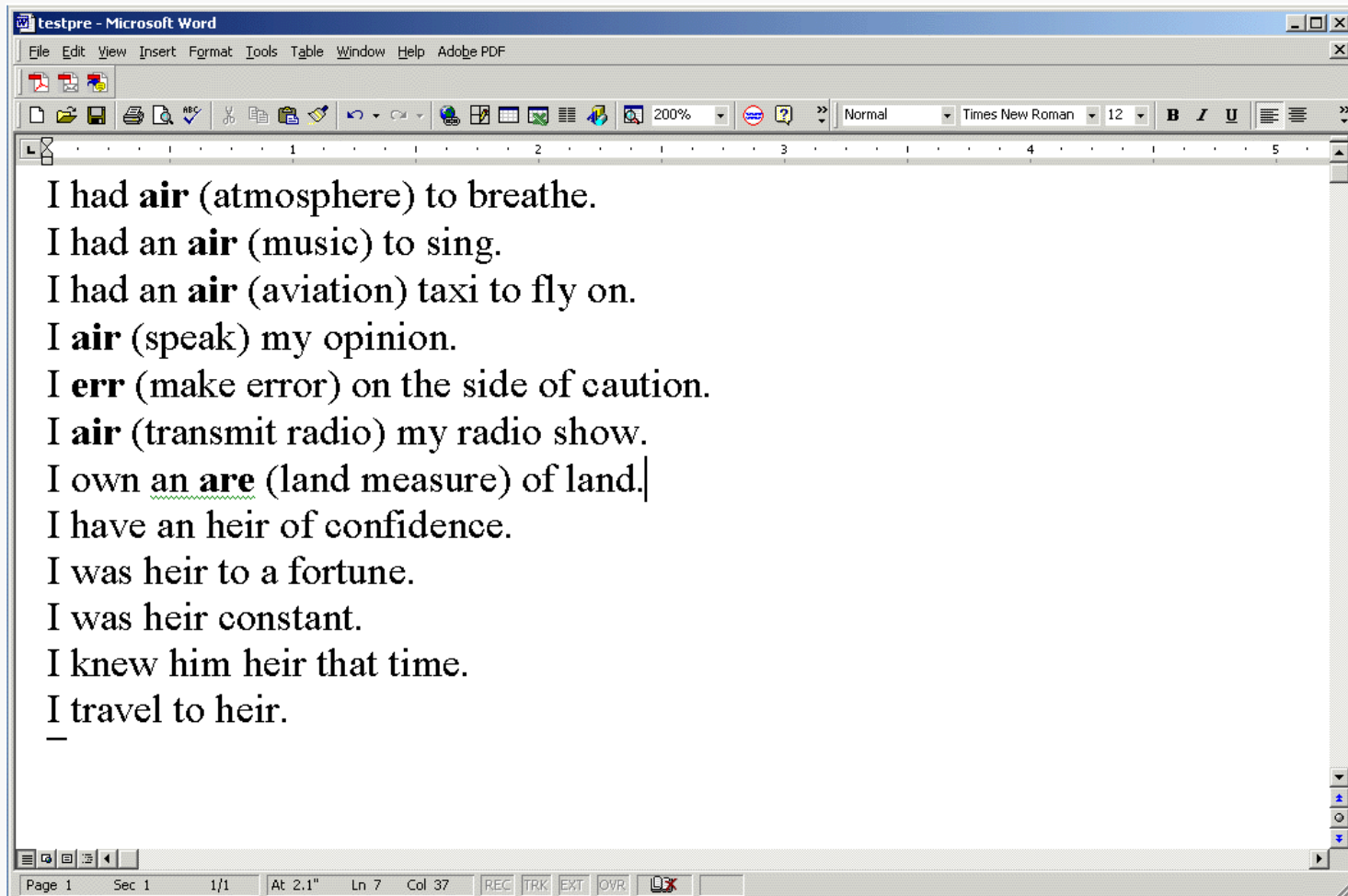
Line 5 Corrected



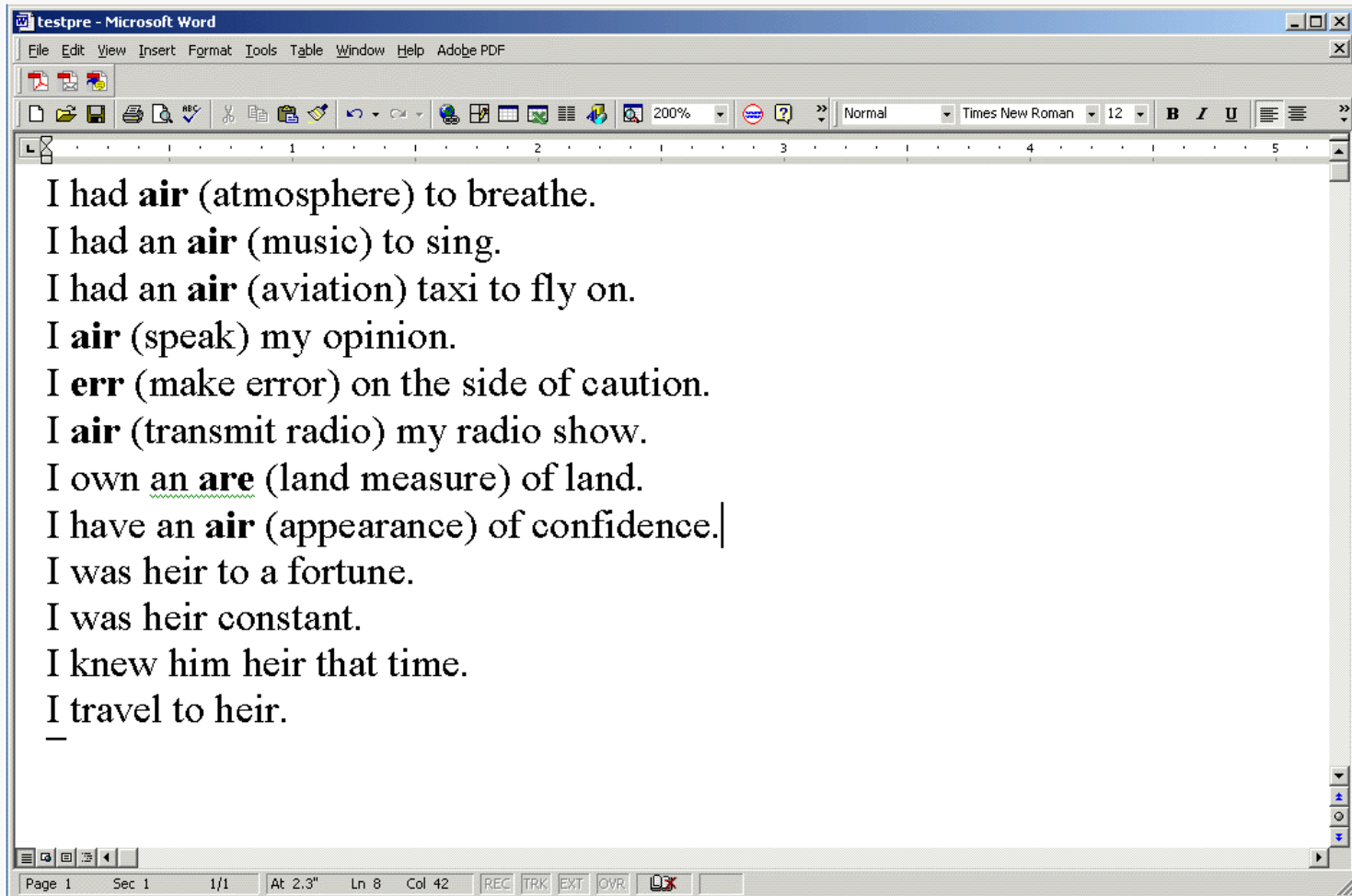
Line 6 Corrected



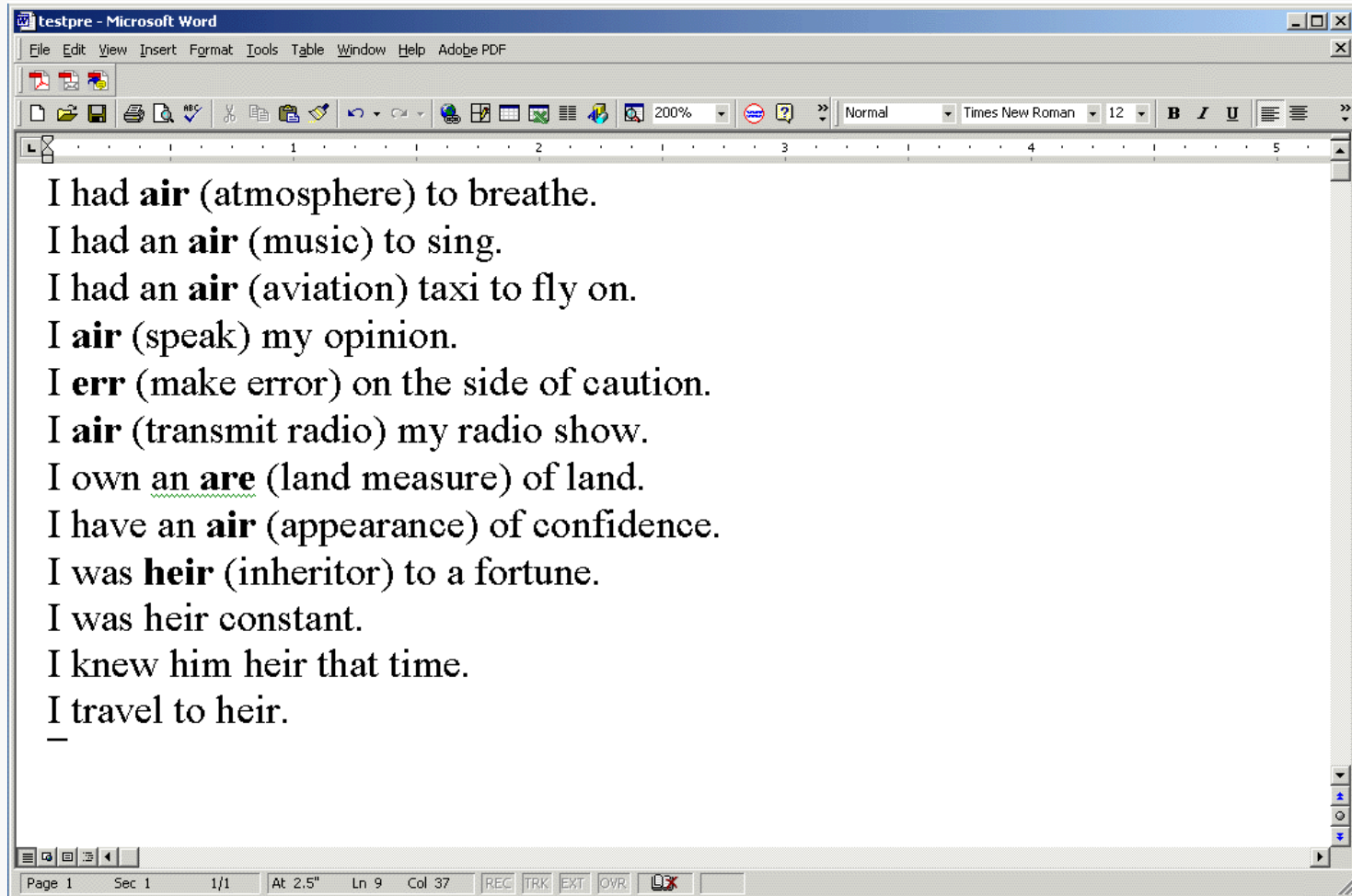
Line 7 Corrected



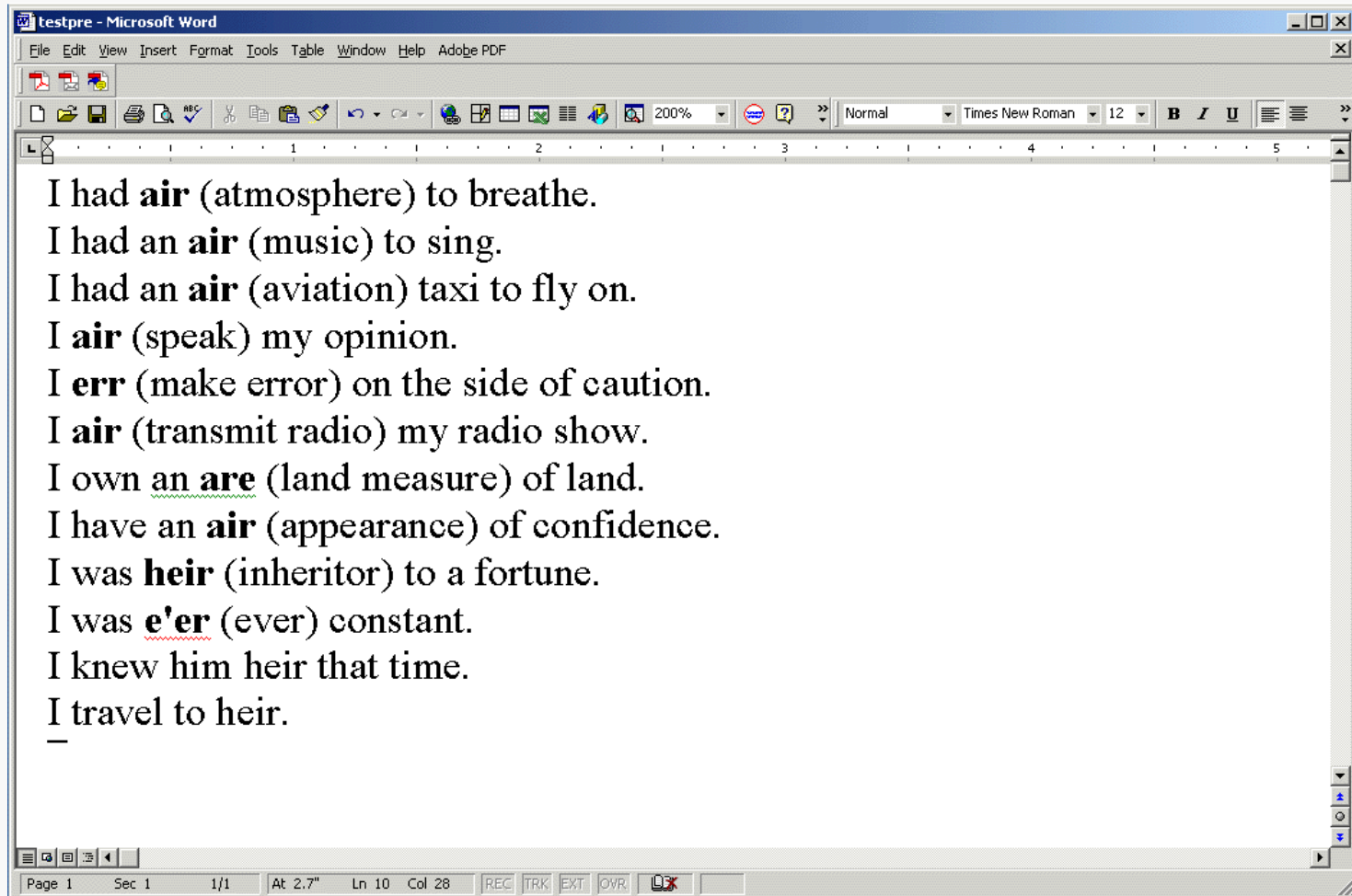
Line 8 Corrected



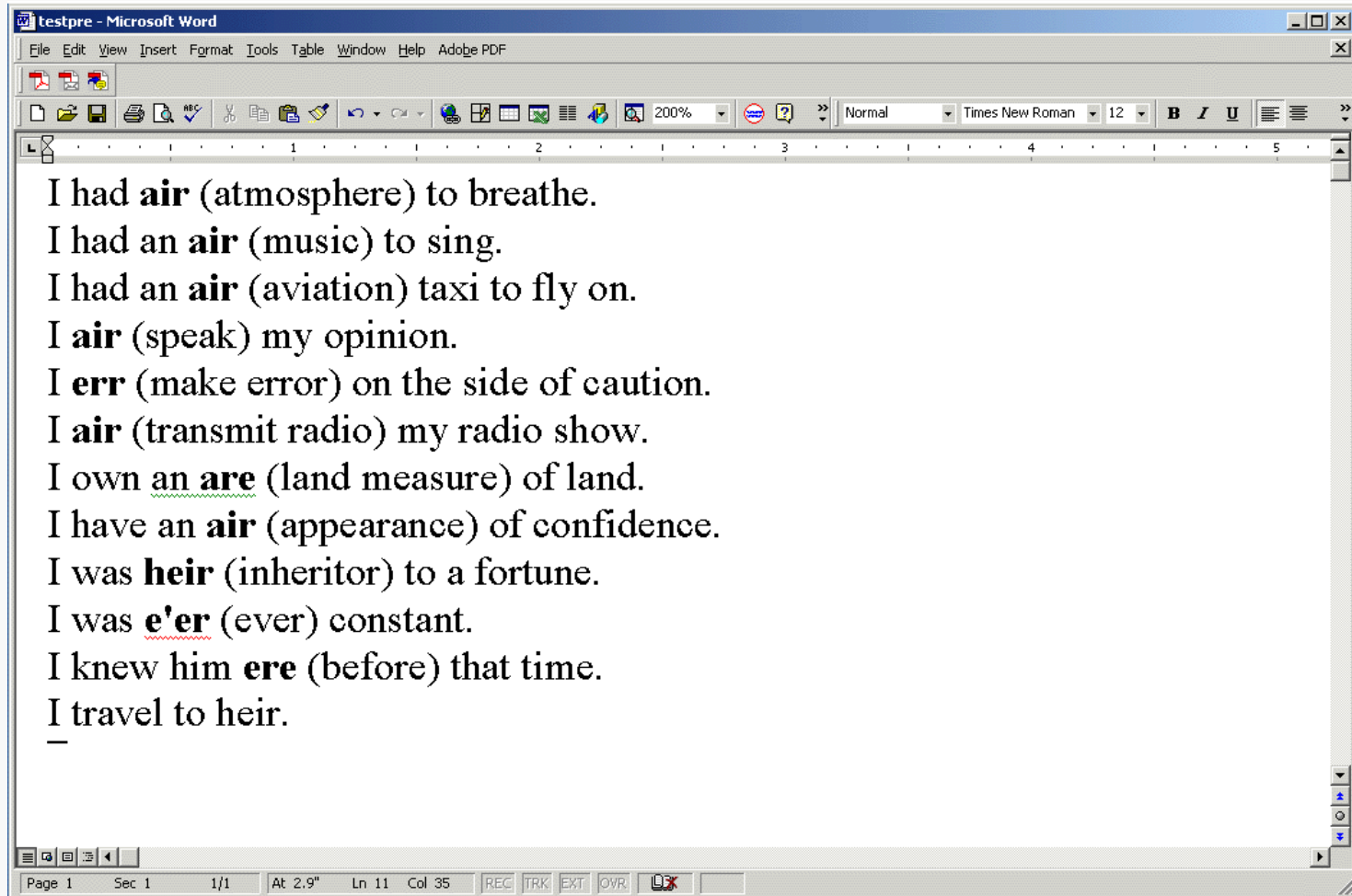
Line 9 Corrected



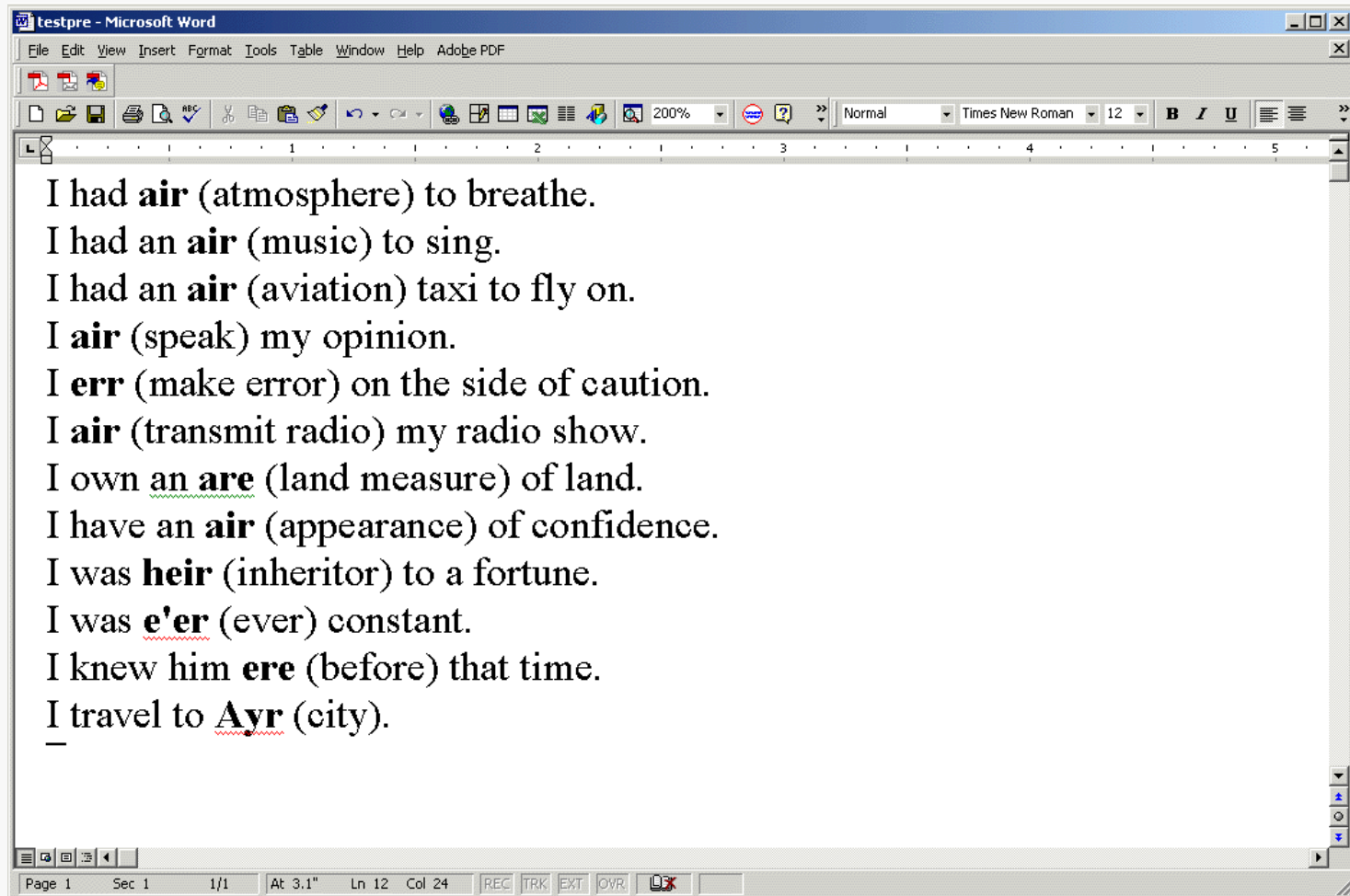
Line 10 Corrected



Line 11 Corrected



Line 12 Corrected, Try That Microsoft!



Artificial Cognition Japanese Demonstration

- **The following three pages demonstrate the method in which our database relates context to meaning.**
- **We have chosen 3 words, bridge, chopstick and end because in Japanese these words are homophones that are particularly vexing in text to speech applications. Our database easily distinguishes contextual relationships.**

Artificial Cognition 日本語デモ

- 次の3ページは、我々のデータベースが文脈と意味を関連づける方法をデモします。
- 3つの単語、橋、箸、端を選んでいきます。これらは、同音異義で、テキストと音声のアプリケーションではとりわけ容易でない課題だからです。我々のデータベースでは、文脈上の相違を容易に識別することができます。

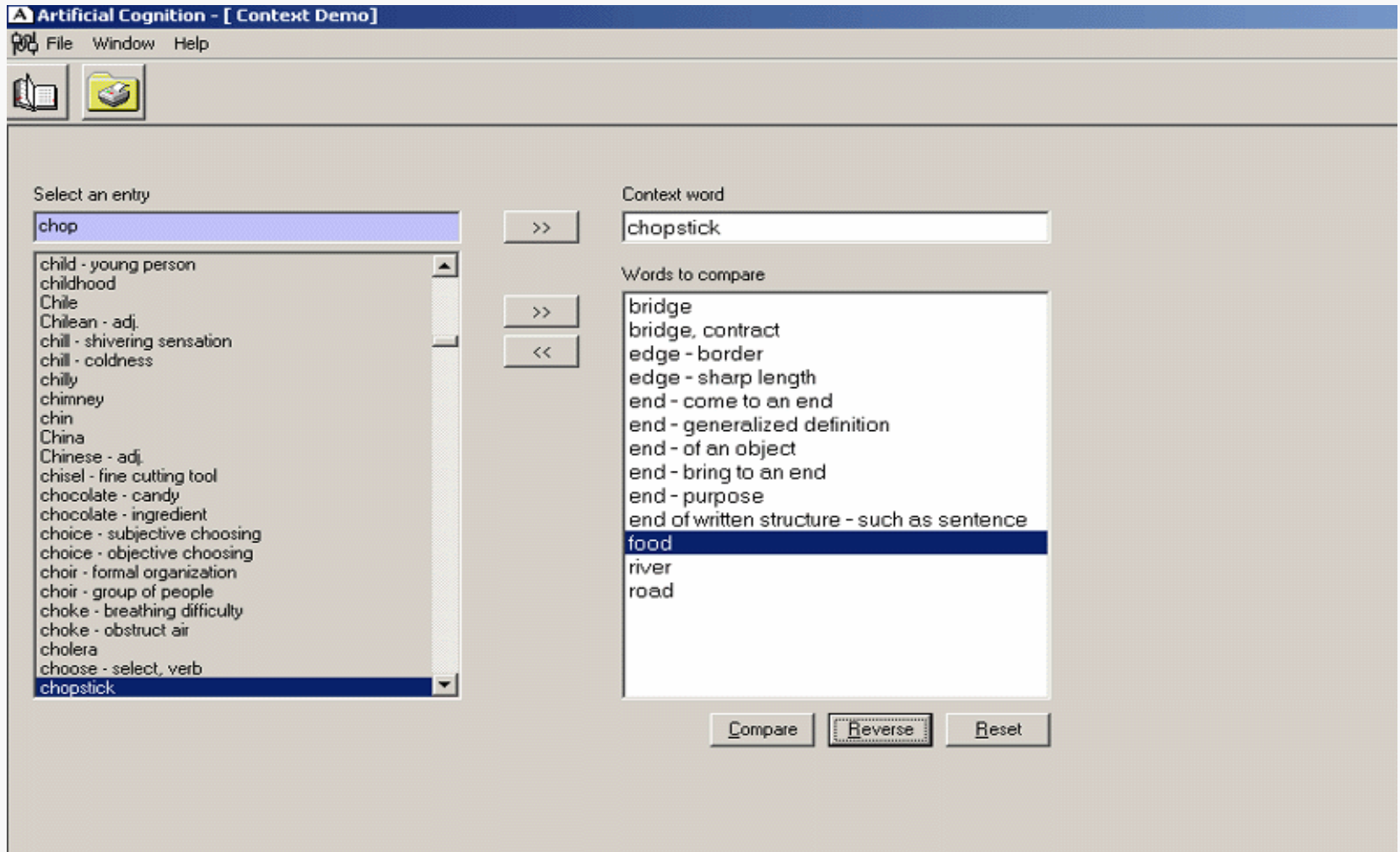
Artificial Cognition Japanese Demonstration

The screenshot shows a software window titled "Artificial Cognition - [Context Demo]". The interface includes a menu bar with "File", "Window", and "Help". Below the menu bar are two icons: a book and a folder. The main area is divided into several sections:

- Select an entry:** A list of words and phrases, with "bridge" selected at the top and bottom of the list. The list includes: Brazilian, breach of contract, bread - bread, breadth - horizontal measure, break - come apart, break - make divide, break - make smash, break - time off, breakfast - eating event, breakfast, breast - area of chest, breast - mammary, breath - gas breathed, breath - act of breathing, breathe - draw breath, breed - stock, breeze, brewer's yeast - and other useful sp., bribe - verb illegal payment, bribery, brick - building material, bride, and bridge.
- Context word:** A text box containing the word "bridge".
- Words to compare:** A list of words and phrases, with "river" selected. The list includes: bridge, bridge, contract, edge - border, edge - sharp length, end - come to an end, end - generalized definition, end - of an object, end - bring to an end, end - purpose, end of written structure - such as sentence, food, river, and road.

Navigation buttons are located between the "Select an entry" and "Words to compare" sections: a right arrow (>>) between the top of the lists, a right arrow (>>) between the middle of the lists, and a left arrow (<<) between the bottom of the lists. At the bottom right, there are three buttons: "Compare", "Reverse", and "Reset".

Artificial Cognition Japanese Demonstration



Artificial Cognition Japanese Demonstration

