

Research Report

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ABSTRACT Midazolam is a drug that creates temporary anterograde amnesia. In a within-subjects, double-blind experiment, participants studied a list of stimuli after receiving an injection of midazolam in one session and after receiving was significantly smaller for pictorial stimuli than for words and almost nonexistent for abstract pictures. We argue that the less familiar the stimulus, the less likely it is to be associated with an experimental context. These data bolster our claim that unitization increases the chances of

1. \mathbb{R}^n 上的内积 $\langle \cdot, \cdot \rangle$ 满足: $\langle x, x \rangle \geq 0$, $\langle x, x \rangle = 0$ 当且仅当 $x = 0$.
 2. $\langle x, y \rangle = \langle y, x \rangle$.
 3. $\langle \alpha x + \beta y, z \rangle = \alpha \langle x, z \rangle + \beta \langle y, z \rangle$.
 4. $\langle x, \alpha y + \beta z \rangle = \alpha \langle x, y \rangle + \beta \langle x, z \rangle$.
 5. $\langle x, y \rangle \leq \sqrt{\langle x, x \rangle} \sqrt{\langle y, y \rangle}$.
 6. $\langle x, y \rangle = 0$ 当且仅当 x 与 y 正交.

定义: $\|x\| = \sqrt{\langle x, x \rangle}$ 称为 x 的范数.

定理: $\|x\|$ 满足三角不等式: $\|x + y\| \leq \|x\| + \|y\|$.

证明: $\|x + y\|^2 = \langle x + y, x + y \rangle = \langle x, x \rangle + \langle y, y \rangle + 2\langle x, y \rangle$
 $\leq \langle x, x \rangle + \langle y, y \rangle + 2\sqrt{\langle x, x \rangle} \sqrt{\langle y, y \rangle} = (\|x\| + \|y\|)^2$
 故 $\|x + y\| \leq \|x\| + \|y\|$.

定义: $\|x\|$ 称为 x 的欧几里得范数.

定理: $\|x\|$ 满足: $\|x\| \geq 0$, $\|x\| = 0$ 当且仅当 $x = 0$.
 $\|x\| = \|y\|$ 当且仅当 $x = y$.
 $\|x\| \leq \|y\|$ 当且仅当 $\langle x, x \rangle \leq \langle y, y \rangle$.

证明: $\|x\| \geq 0$ 且 $\|x\| = 0$ 当且仅当 $\langle x, x \rangle = 0$ 当且仅当 $x = 0$.
 $\|x\| = \|y\|$ 当且仅当 $\langle x, x \rangle = \langle y, y \rangle$ 当且仅当 $x = y$.
 $\|x\| \leq \|y\|$ 当且仅当 $\langle x, x \rangle \leq \langle y, y \rangle$.

The first part of the paper is devoted to the study of the
 asymptotic behavior of the solutions of the system (1)
 as $\epsilon \rightarrow 0$. In the second part, we study the
 asymptotic behavior of the solutions of the system (1)
 as $\epsilon \rightarrow \infty$. In the third part, we study the
 asymptotic behavior of the solutions of the system (1)
 as $\epsilon \rightarrow 0$ and $\epsilon \rightarrow \infty$. In the fourth part,
 we study the asymptotic behavior of the solutions of the
 system (1) as $\epsilon \rightarrow 0$ and $\epsilon \rightarrow \infty$.

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