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↑ WHILE A MAGICIAN WORKS, THE MIND DOES THE TRICKS

From *The New York Times*:

A decent backyard magic show is often an exercise in deliberate chaos. Cards whipped through the air. Glasses crashing to the ground. Gasps, hand-waving, loud abracadabras. Something's bound to catch fire, too, if the performer is ambitious enough — or needs cover. "Back in the early days, I always had a little smoke and fire, not only for



misdirection but to emphasize that something magic had just happened," said The Great Raguzi, a magician based in Southern California who has performed professionally for more than 35 years, in venues around the world. "But as the magic and magician mature, you see that you don't need the bigger props."

Eye-grabbing distractions — to mask a palmed card or coin, say — are only the crudest ways to exploit brain processes that allow for more subtle manipulations, good magicians learn. In a paper published last week in the journal *Nature Reviews Neuroscience*, a team of brain scientists and prominent magicians described how magic tricks, both simple and spectacular, take advantage of glitches in how the brain constructs a model of the outside world from moment to moment, or what we think of as objective reality. For the scientists, Susana Martinez-Conde and Stephen Macknik of the Barrow Neurological Institute in Phoenix, it raised hope that magic could accelerate research into perception. "Here's this art form going back perhaps to ancient Egypt, and basically the neuroscience community had been unaware" of its direct application to the study of perception, Dr. Martinez-Conde said.

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