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## linksofLondon

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05 January, 2010

### Various applications

A single-atom-thick sheet [links of london sale](#) of carbon, like those seen in pencil marks -- offers great potential for new types of nanoscale devices, if a good way can be found to mold the material into desired shapes. Chemists at the University of Illinois at Chicago say it's possible, reporting that graphene can become quite pliable using only a nanodroplet of water to do the job. Up until now, it wasn't thought **Links of London Necklaces** we could controllably fold these structures," said Petr Kral, assistant professor of chemistry at UIC. "But now we know how to shape graphene by using weak forces between nanodroplets carefully positioned on graphene sheets." Kral and two of his graduate students described the process in a recent article in Nano Letters, which is highlighted in Nature's "news and views" section **D Charm** Dec. 17. Engineers already cut graphene into narrow ribbons and other shapes, expanding the set of carbeneous systems such as fullerenes, carbon nanotubes and nano-diamonds. Using computer simulations, Kral showed that weak molecular interactions called van der Waals forces between water nanodroplets and graphene **C Charm** can shape it into a wide variety of forms, without the water and graphene chemically binding. Depending on the size of the water droplet and the shape and size of graphene flake used, we can fold it in different shapes for various applications," said Kral. "It's similar to the way proteins are folded in biological cells with the help of chaperone proteins. Kitazono and colleagues published their study in the Journal of the Physical Society of Japan (Neural Network Model with Discrete and Continuous Information Representation. Journal of the Physical Society of Japan,

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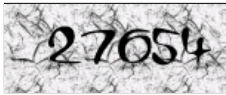
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