

# From stone dildos to sexbots—how technology is changing sex

July 2 2018, by Dave Parry

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As the TV series [Westworld](#) wraps up its second season, the show continues to [spark discussion](#) about a potential future that involves [lifelike sex robots](#).

Meanwhile, Australia's largest adult sexuality and lifestyle expo, [SEXPO](#), is making its way around the country with the theme "Feel the Future" – a nod to all things sex and tech.

But while more lifelike sex dolls are beginning to hit the market, they aren't the only innovations on the horizon.

## What's next for sex?

The use of technology to enhance [sexual pleasure](#) is ancient.

A [stone dildo](#) discovered by researchers in a German cave dates back 28,000 years. And sculptures with strong erotic imagery from more than 35,000BC are thought by some scientists to be an [early form of pornography](#).

The main technologies that are likely to be important for developments in sex over the next few years are:

- Increasing miniaturisation of motors and batteries for stimulation and to simulate human movement,

- improved touch-based (haptic) interfaces, virtual reality and brain computer interaction,
- materials development, such as skin that stretches, and
- artificial intelligence for control and response.

## Sex aids

Sex aids for solo or coupled sex remain extremely popular. More natural skin-like covers, ranges of movement, battery life and wireless control are major areas of innovation.

Devices such as the [We-Vibe](#) have gone mainstream, and are now sold by Amazon.

But, as with many technologies, hi-tech sex aids have their downsides. The manufacturer of We-Vibe [recently settled a class-action law suit](#) following allegations the company breached users privacy by remotely tracking use of the device.

## Teledildonics

New technologies can facilitate sex with a partner who is present, a partner who is distant, as well as solo activity. These aspects merge in the field of [teledildonics](#), which involves partners getting together without being together.

Teledildonics is an extension of web-cam or phone sex. Remotely controlled sex toys can be used to facilitate pleasuring a partner when they are not there.

We may see apps like Tinder and Grindr move in this direction, limiting perceived risks associated with physical contact. [Sexy Vibes](#) – an

alternative to Tinder – already works by turning a phone into a vibrator.

## Virtual reality

Since a lot of sexual pleasure is experienced in the brain, advances in [virtual reality](#) that make a simulated sexual encounter more realistic and engaging may be [more important than anatomically accurate physical devices](#).

You might be familiar with online games where people change gender, appearance, and even species as they wish. Sex is already relatively common in games such as [World of Warcraft](#), and there are a huge range of sex-games available.

Virtual reality could remove the need to have any link to the real world whatsoever.

## Sexbots

Sexual robots that behave like humans are a staple of science fiction. Without going into the ethical questions surrounding their development – which have become the subject of [activist campaigns](#) – sexbots to the fictional standard are difficult to make and suffer from the ["uncanny valley" effect](#) effect. They are close to human, but noticeably different.

And once you have built a sexbot, you need some way of controlling its behaviour. A distant partner may be one approach, a pre-programmed "digital prostitute" may be another. It is possible to imagine a future where one could personalise a robot using 3-D printing and a set of prebuilt responses to appear and act like a particular human being.

Alternatively, advances in machine learning could enable a sexbot to

change its behaviour in response to the desires and actions of the user, constructing a completely artificial personality.

Voice interfaces, such as Amazon's Alexa, are already reliable. [Haptic interfaces](#) could be used to stimulate behaviour, along with [gesture recognition](#) or even [brain-computer interfaces](#).

It's possible we may see a future where robots are considered [more understanding than humans](#), encouraging people to share intimate details about themselves more readily.

## **A sexual response Turing test**

The fully fledged sexbot that can be mistaken for a human is still beyond current technology.

Major barriers to this include duplicating the kind of [human movement](#) that depends on hundreds of muscles, the development of skin that can feel, and the creation of a nervous system that can respond to stimuli.

Even in ten years time, it is unlikely that the movement and appearance of people could be duplicated unless there is a breakthrough in artificial muscle design and biomimetic materials.

A sexbot that could pass a "sexual response Turing test" – much like Google's Duplex is able to [pass as a human caller](#) – would be much easier to develop in a virtual world.

## **Beyond pleasure**

Some new technologies may have benefits that go beyond just pleasure. These tools might be used to help people with concerned about genital

function, appearance or type.

There are already a wide array of prosthetic penises and vaginas, often marketed for transgender people. Adding feeling to function – by using biomimetics and sensory feedback – may make them more acceptable than surgery for some people.

Sex and technology link in many different ways – whether its helps overcome a disability or separation from a loved one, or is simply be a way to increase pleasure and excitement. In the future, physical technologies may be complementary to virtual ones, and fantasy might trump realism in their design and use.

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