

Real World Applications

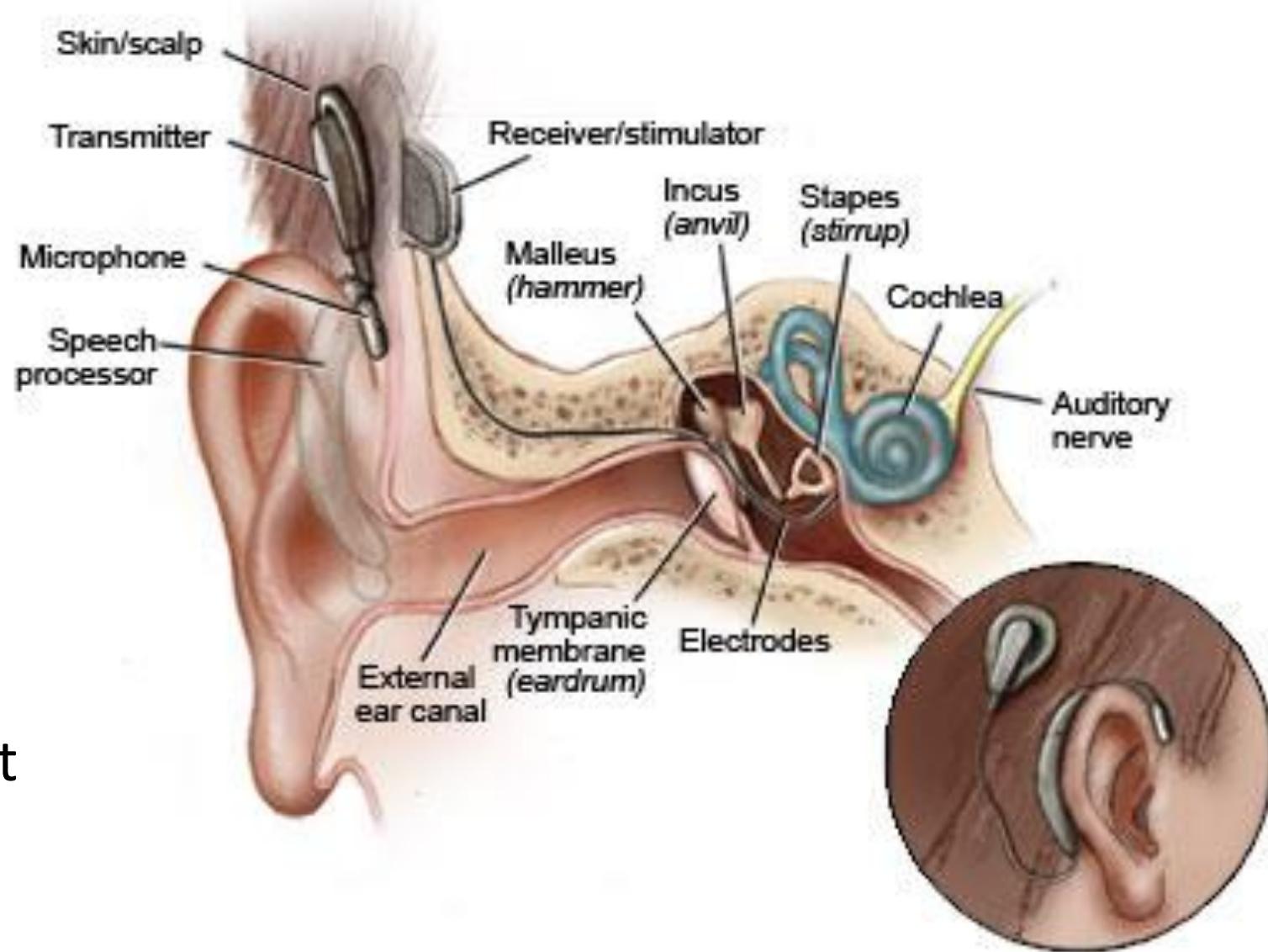
Cochlear Implant, Alexa, E-sports, DaVinci robot

Cochlear Implants



Artificial Ear

Cochlear Implant



Surgery, therapy
and device can cost
as much as
\$100,000.



Babies who are born deaf can receive surgery.

Adults can as well.



The speaker
can be made
the same
colour as your
hair.





Making it more mainstream....

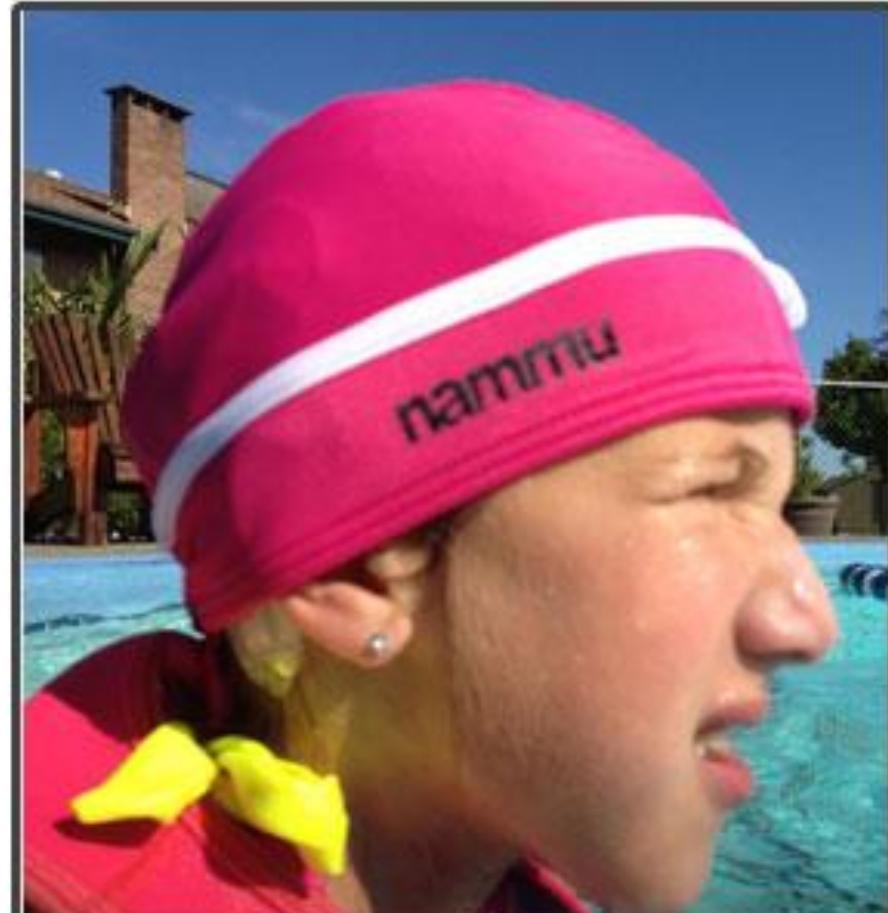
← A child's doll with a cochlear implant.
An interesting hairstyle ↓



Swimming with the Tech



This is the Cochlear Aqua Accessory.
The Nammu hat is great in pairing with this



Wearing her nammu hat with her
cochlear aqua accessory bag



The “Bionic Ear” is really old technology.

First implanted in 1978 in Melbourne Australia.
First approved for use in adults in USA in 1985.
First approved for children in Canada in 1990.

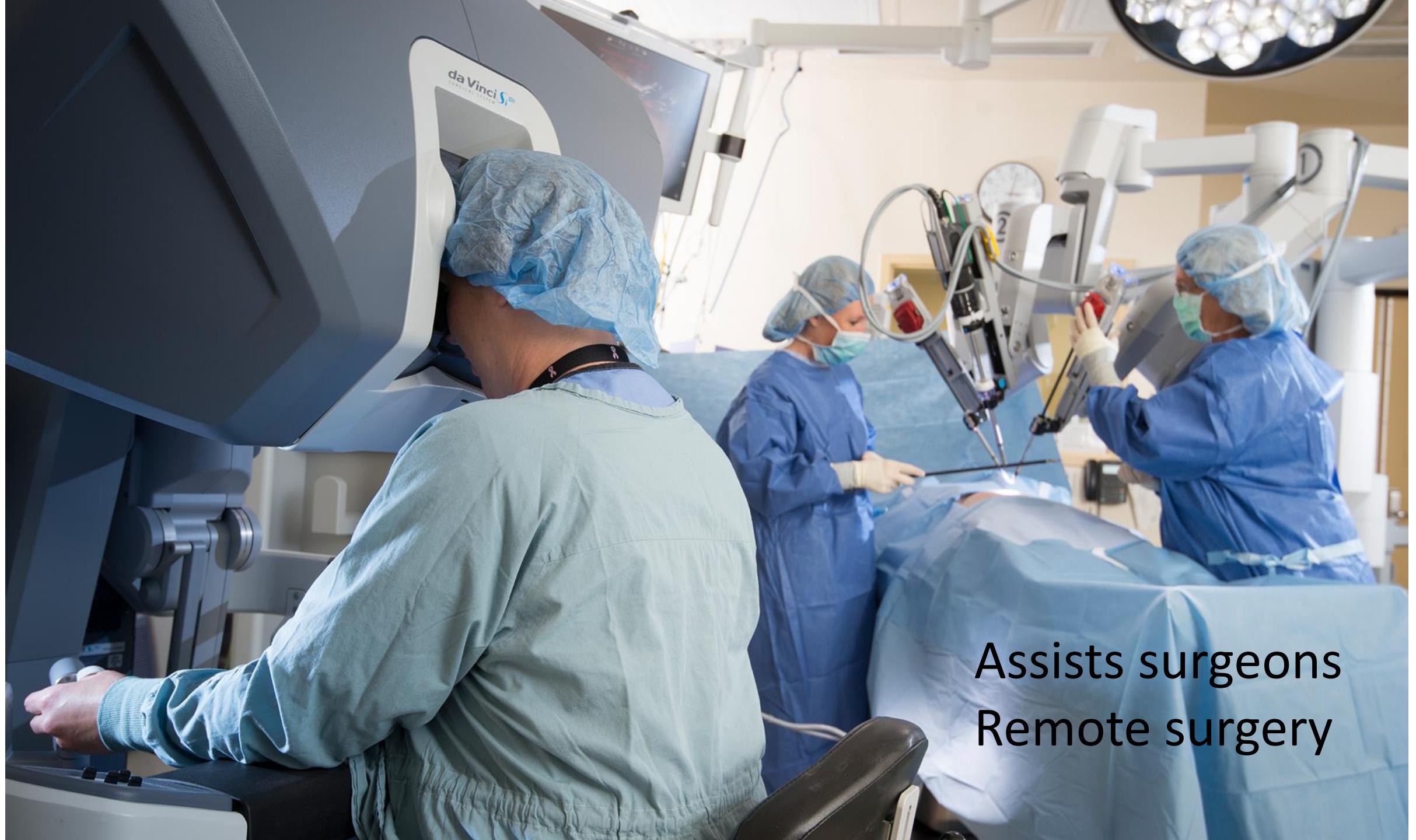


DaVinci Surgical Robot

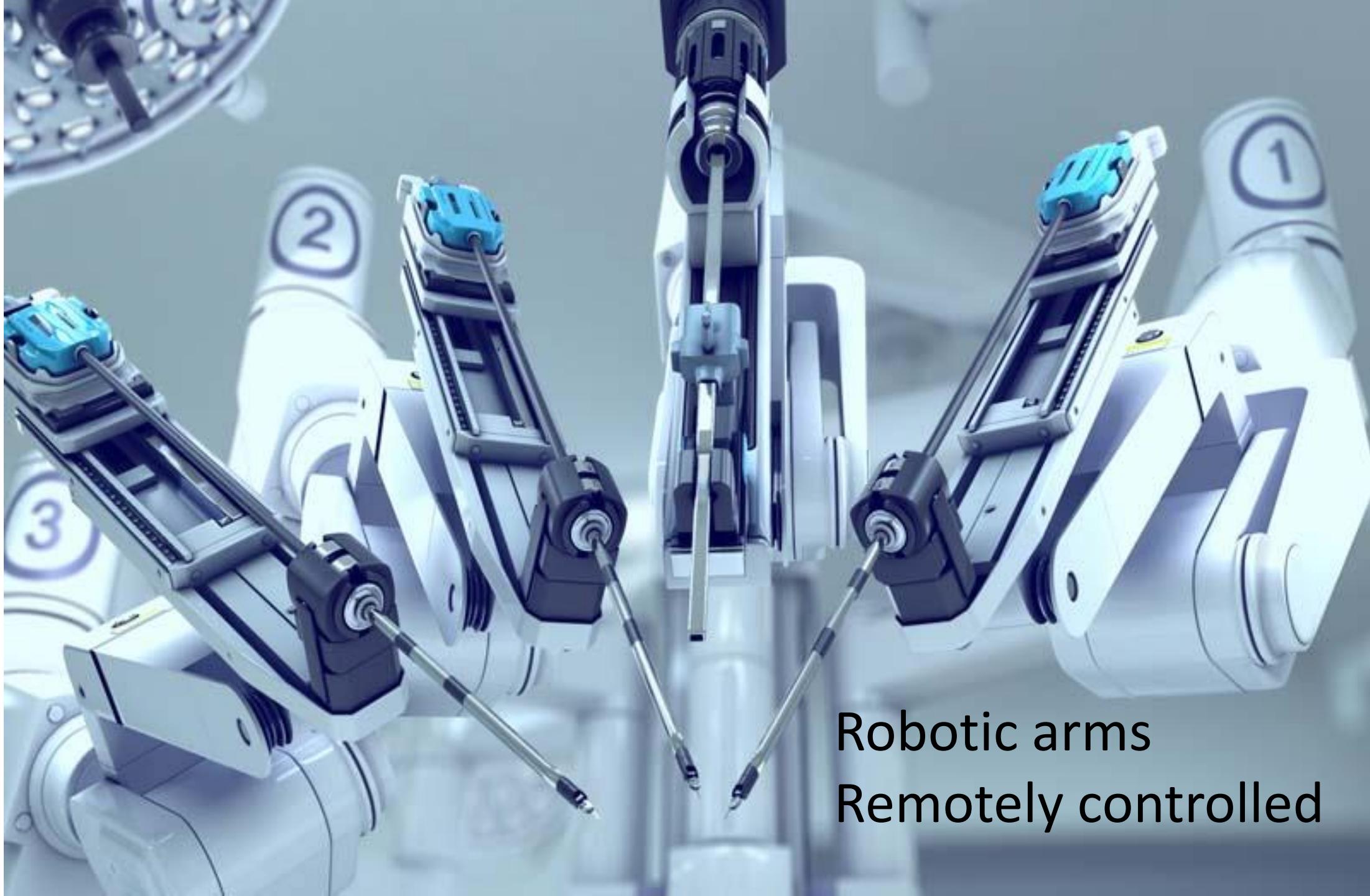
Costs \$2 million

Used in about 1,700 hospitals worldwide

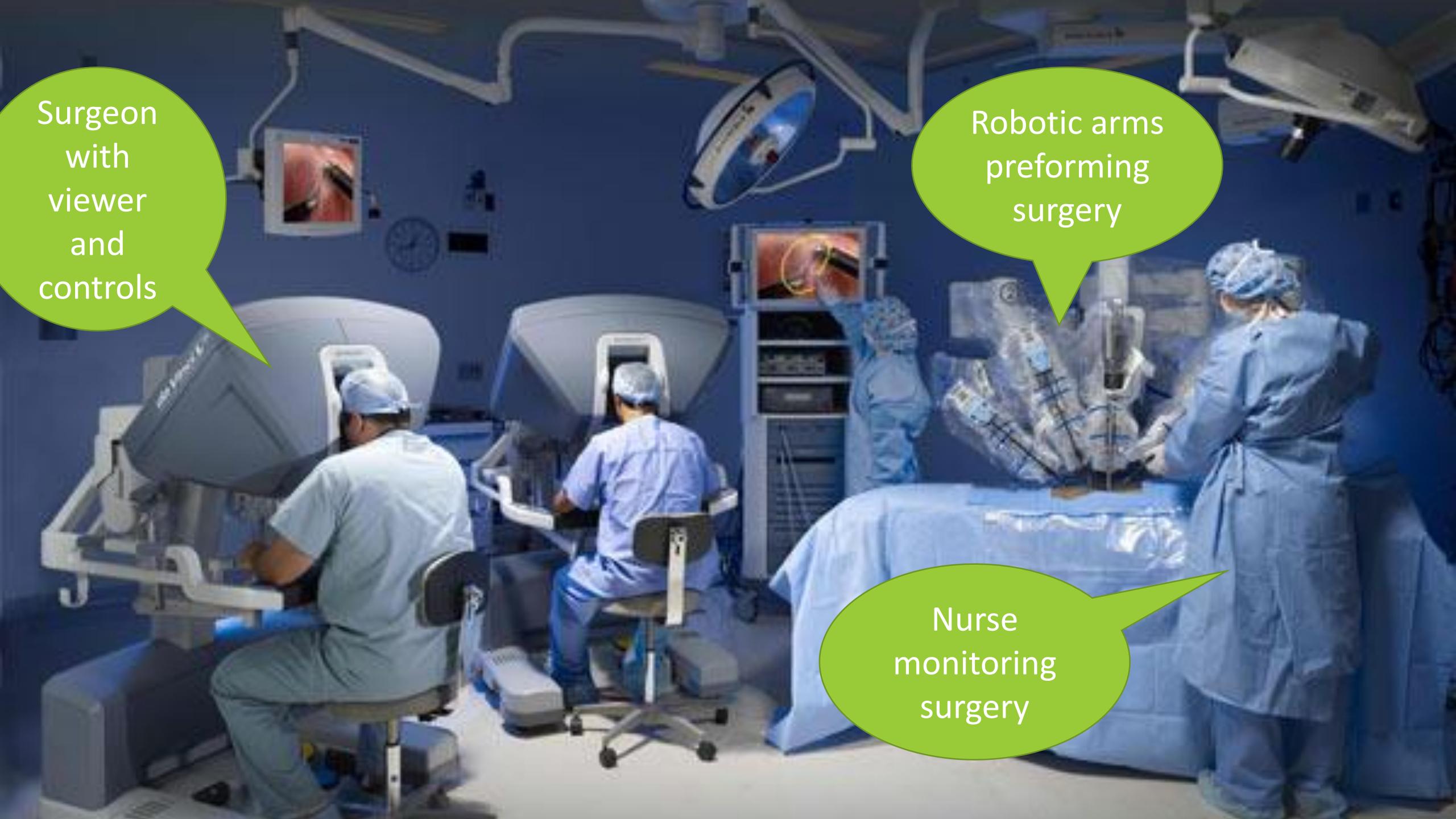
First sales in 2000.



Assists surgeons
Remote surgery



Robotic arms
Remotely controlled



Surgeon
with
viewer
and
controls

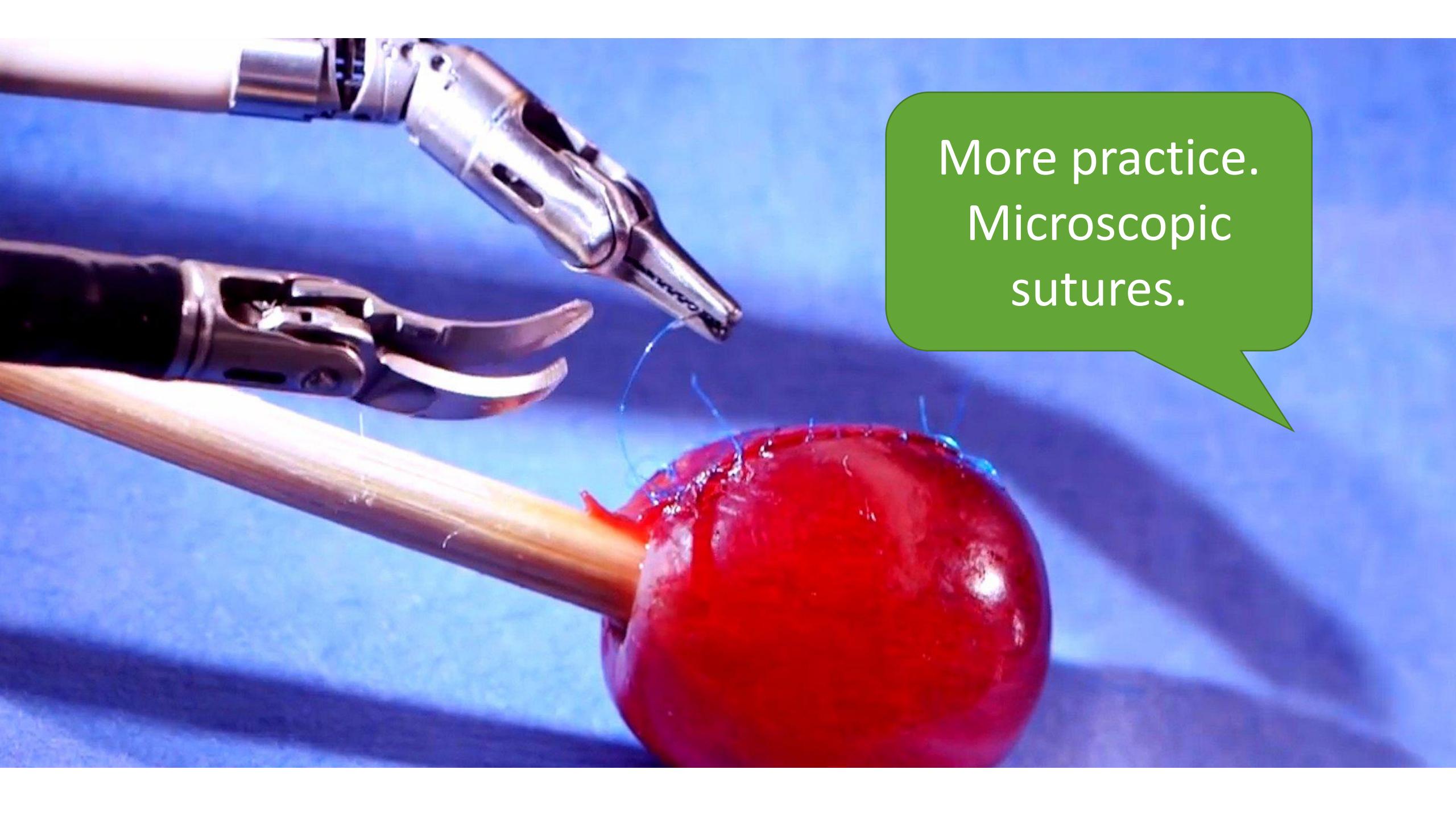
Robotic arms
preforming
surgery

Nurse
monitoring
surgery

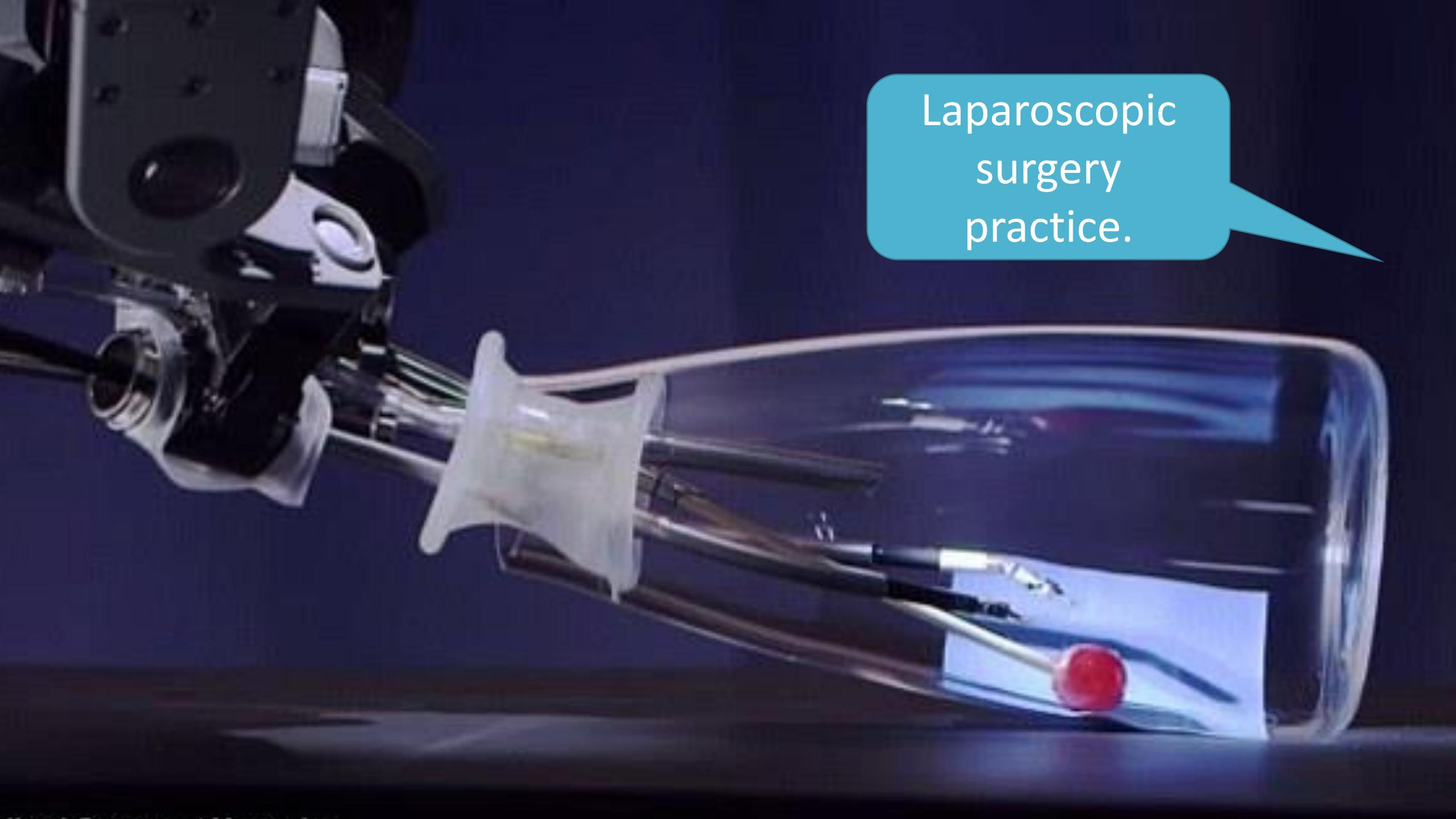
Surgeons need to practice fine motor controls



Peeling a
grape. Practice
peeling back
skin.



More practice.
Microscopic
sutures.

A close-up photograph of a robotic arm, specifically the EndoWrist™ system by Intuitive Surgical, performing laparoscopic surgery. The arm is shown from a side-on perspective, holding a surgical instrument with a red-tipped end. The background is dark, suggesting an operating room environment. A light blue speech bubble is positioned in the upper right corner, containing the text.

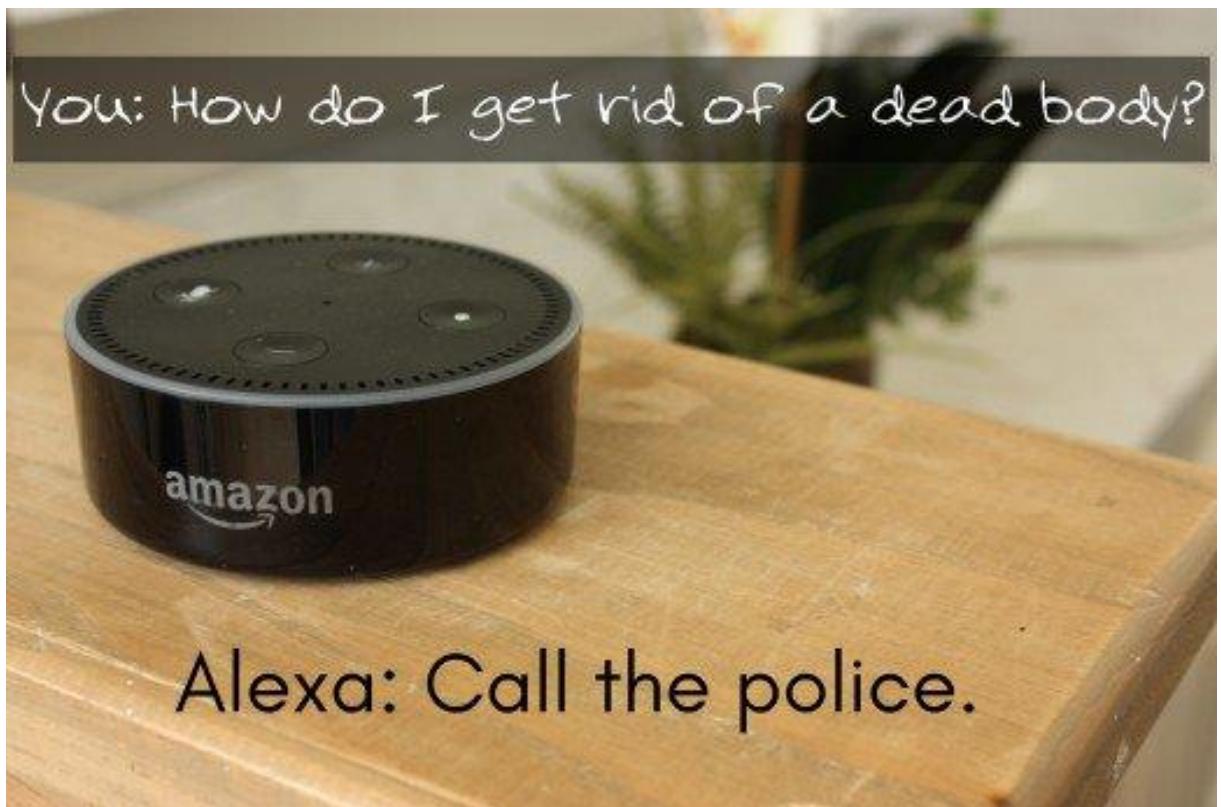
Laparoscopic
surgery
practice.

Another form of practice is folding microscopic paper cranes.



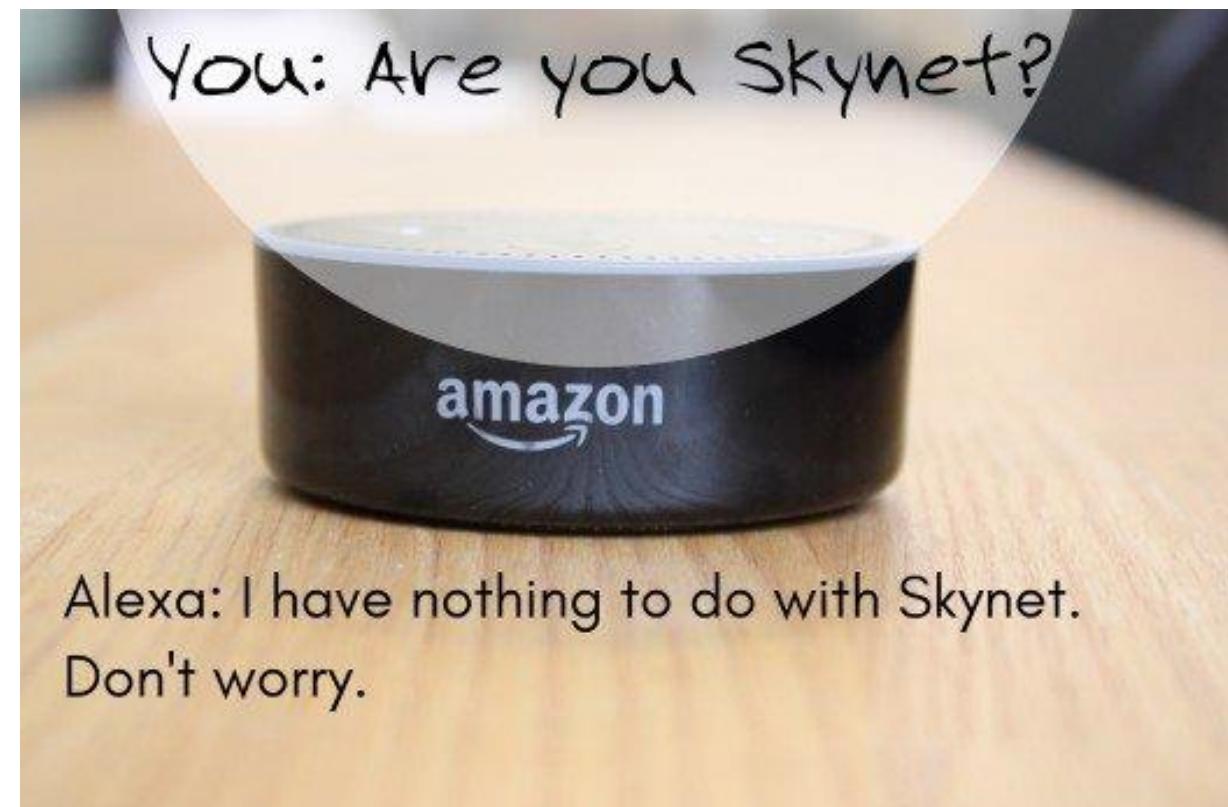
Initial release date – November 2014





You: How do I get rid of a dead body?

Alexa: Call the police.



You: Are you Skynet?

Alexa: I have nothing to do with Skynet.
Don't worry.



100 BEST Alexa skills

Just say "Alexa..."

ENTERTAINMENT

1. Open the Tonight Show.
2. What movies are playing nearby?
3. Find me a nearby sushi restaurant.
4. What is the IMDB rating for Breaking Bad?
5. Who stars in the TV show Justified?
6. Did the Diamondbacks win?
7. Give me my sports update.
8. Open StubHub for upcoming events.
9. Ask Fantasy Football nerd for headlines.
10. Ask TV Guide what time the Price is Right is on.

SMART HOME

1. Turn on Christmas tree.
2. Turn family room lights blue.
3. Tell Harmony to turn on the TV.
4. Ask Trackr to find my phone.
5. Tell Rachio to water the lawn for 15 minutes.
6. Lock the front door.
7. Set the thermostat to 70.
8. Tell Garageio to close my garage door.
9. Arm away mode in my security system.
10. Turn on the family room fan.

LEARNING

1. Tell me a dog fact.
2. Play the Dave Ramsey Show.
3. What's in the news?
4. Play my audio book.
5. What's 12 times 24?
6. Tell me a Chuck Norris Fact.
7. Open on this day.
8. Ask Aurora for Northern Lights forecast.
9. Open translator. Translate "bathroom" in Chinese.
10. Alexa, open the Bible. Read Genesis 1.

KITCHEN

1. How many quarts are in a gallon?
2. How many calories are in a cheeseburger?
3. Start a timer for 10 minutes.
4. Open AllRecipes. (guides you through recipes)
5. Open Campbell's Kitchen skill.
6. Reorder Life cereal.
7. Add milk to my shopping list.

GAMES

1. Play rock, paper, scissors
2. Play 20 questions.
3. Play Jeopardy!
4. Open bingo.
5. Open the name game.
6. Open the magic door.
7. Open amazing word master.
8. Play guess the animal.
9. Open bean jar.
10. Launch crystal ball.

HOBBIES

1. Open metronome.
2. Open acoustic tuner.
3. Start 7-minute workout.
4. Open today's horoscopes.
5. Ask FitBit my step count.
6. Open yoga trainer.
7. Open Potterhead.
8. Wikipedia Lin-Manuel Miranda.
9. Launch stock exchange.
10. Open NASA Mars.

EASTER EGGS

1. Where do babies come from?
2. Where is Carmen San Diego?
3. Self-destruct.
4. Ask fortune cookie.
5. Magic trick.
6. Start meow skill.
7. Ask boo. (can also ask applause)
8. Open demotivate me.
9. Who you gonna call?
10. Use the force.

ORDERING

1. Open Starbucks.
2. Open Pizza Hut.
3. Open Dominos.
4. Ask 1-800-Flowers for an order.
5. Add an iPhone case to my cart.
6. Where's my package?
7. Ask Uber to request a ride.
8. What are your deals?
9. Ask Kayak for flights.
10. Open Capital One.

KIDS

1. Open bedtime story.
2. How many days until Christmas?
3. Ask my world capitals.
4. Open animals sounds.
5. Open knock knock jokes.
6. Ask math mania to play.
7. Sing happy birthday.
8. Ask PokeyFinder to find Charizard.
9. Start sheep count.
10. Ask for a fart.

CONVENIENCE

1. What's traffic like?
2. Play thunderstorm.
3. Start white noise.
4. Calendar.
5. Remind me to take out the trash.
6. What time is it in Shanghai?
7. Ask area code.
8. Set an alarm for 8 am.
9. How old is someone born June 12, 1987?
10. Ask Kayak to track a flight.



Roll over image to zoom in

Echo (2nd Generation) - Charcoal Fabric

by Amazon



1,550 customer reviews | 319 answered questions

Amazon's Choice for "alexa"

List Price: ~~CDN\$ 129.99~~

Deal Price: **CDN\$ 109.99 & FREE Shipping.** Details

You Save: **CDN\$ 20.00 (15%)**

In Stock.

Want it tomorrow, Aug. 22? Choose One-Day Delivery at checkout.

Ships from and sold by Amazon.ca. Gift-wrap available.

1 new from **CDN\$ 109.99**

Color Name: **Charcoal Fabric**



CDN\$ 109.99



CDN\$ 109.99



CDN\$ 109.99

Configuration: **Echo**

- Echo connects to Alexa—a cloud-based voice service—to play music, make

The echo dots are about \$40.



Can be used to enable the
IOT, including a smart home.

w

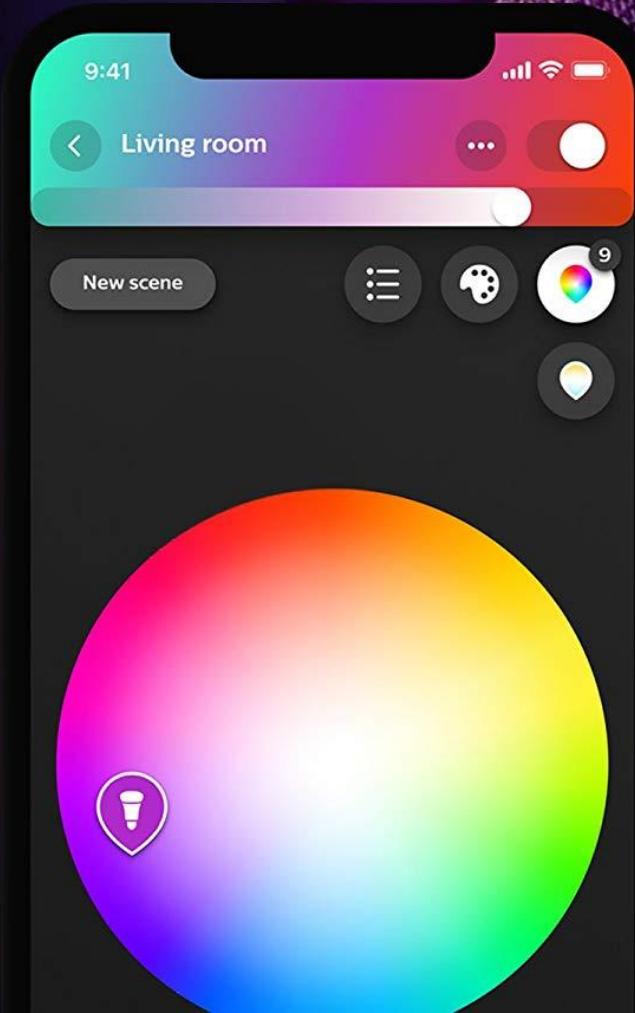


IOT = Internet of Things
Objects like thermostats
are attached to the
internet.



A smart home is one that can be monitored and controlled remotely using the IOT.





Control your lights with **your voice**



“Alexa...”

“Hey Siri...”

“Ok Google...”



IFTTT is a service **that** lets you create powerful connections with one simple statement:

Recipe

if this then that

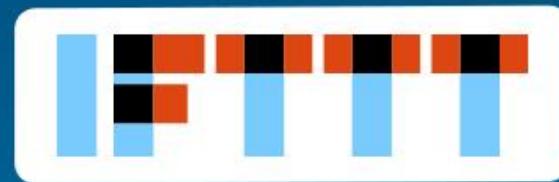


Trigger



Action

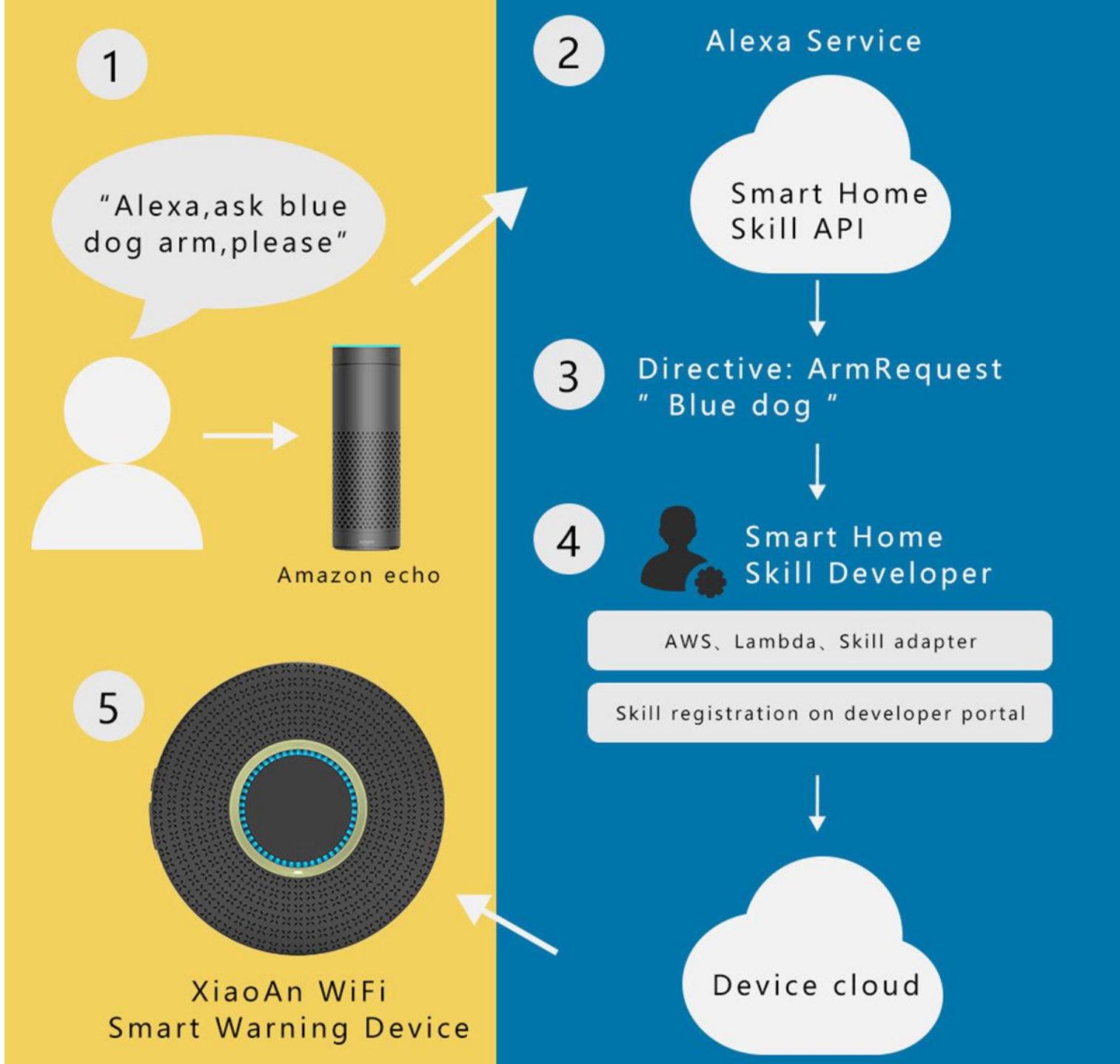
IFTTT is pronounced like “gift” without the “g.”



“Alexa trigger water my roses”

if **amazon echo** then **rainmachine**







STARCRAFT

STARCRAFT
2014
WORLD CHAMPIONSHIP SERIES
GLOBAL FINAL

www.filekuki.com



In South Korea, there have been 3 National E-sports networks since about 2002.



E-Sports players stream games on media like Twitch in North America

A large, dark pyramid-shaped building with a red and blue logo on top. The words "ESPORTS ARENA" and "LAS VEGAS" are visible on the side of the building. In front of the building, there is a large, white, stylized figure of a person's head and shoulders. The background shows a city skyline and mountains under a clear sky.

A new sports
arena in Las
Vegas





OG won the Valve's The International Dota 2 Competition in 2019 won \$15,603,133 each player won \$3.1 million Tiger Woods, 'only' pulled in \$2.07 million at the 2019 Masters.

Wimbledon singles champs Novak Djokovic and Simona Halep 'only' won \$2.9 million each.



Nationality	ID	Name
Australia	ana	Anathan Pham
Finland	Topson	Topias Taavitsainen
France	Ceb	Sébastien Debs
Finland	JerAx	Jesse Vainikka
Denmark	N0tail (captain)	Johan Sundstein

Twitch Viewership:
Fortnite's 1.3 million concurrent viewers is the new Twitch record for an esports event, beating out CS:GO's ELEAGUE Boston Major (1.15 million) and League of Legends peak of 1.14 million.



Google's Listing of Top E-Sports Players



League of
Legends
2009



PlayerUnkno...
Battlegrounds
2017



Dota 2
2013



Overwatch
2016



Counter-
Strike: Glob...
2012



StarCraft II:
Wings of Lib...
2010