## NEXT ENGINEERS



All Engineering


## Remember Pi

## NERD OUT

## Who remembered the $\pi$ ?

$\pi$ is not a very big number. It is only a little greater than three (about 3.14). However, $\pi$ is a very long number, a very long number indeed. In fact, $\pi$ is so long that it never ends, and it never repeats itself.

With the help of modern computers, we have been able to compute the first 62.8 trillion digits of $\pi^{1}$. If you were to say one digit per second, it would take you about 2000000 years to recite all these digits.

Remembering and reciting all these digits would be impossible. However, remembering as many digits of $\pi$ as possible has become a fierce contest. The Pi World Ranking List (https://www.pi-world-rankinglist.com/?page=lists\&category=pi) lists over 2300 official records. According to it, the current record is held by Suresh Kumar Sharma, who recited an incredible 70030 digits of $\pi$ in 17 hours and 14 minutes. That is an average of just over 1 digit per second.

There are other unofficial record holders like Akira Haraguchi from Japan, who claims to have memorized 111700 digits $^{2}$. Whoever is the real record holder, these are very impressive feats.

## How much $\pi$ can you remember?

Memorizing the digits of $\pi$ is not just something adults do. Six-year-old Maurice Dickinson has been able to memorize 314 digits. Have a look at her story by watching Six-year-old Maurice Dickinson enumerates the first 314 numbers of $\pi$ (1:10) (https://www.youtube.com/watch?v=OC0bk8rHcRQ).

All this begs the question - how many digits of $\pi$ can you remember? Watch The Pi Song (Memorize 100 Digits Of $\pi$ ) $(1: 14)$ (https://www.youtube.com/watch?v=3HRkKznJoZA) to help you get started memorizing the first 100 digits.

[^0]For reference, the first 100 digits of $\pi$ are:
3.141592653589793238462643383279502884197169399375105820974944

5923078164062862089986280348253421170679

If you want to go further than 100 digits and need a handy list of the first million digits of $\pi$, check out 1 Million Digits of Pi (https://www.piday.org/million/).

Why not record yourself reciting as many digits of $\pi$ as possible from memory? Then, share the video on social media with \#NextEngineersDIY.


## HAVE A THINK

If NASA only uses the first 15 digits of $\pi$ to launch its rockets into space, what do you think is the point of calculating 62.8 trillion digits with a supercomputer?

Read A Supercomputer Just Calculated Pi to a RecordBreaking 62.8 Trillion Digits. So What?
(https://www.popularmechan ics.com/science/math/a37329 769/supercomputer-calculated-pi-to-record-breaking-628-trillion-digits/) for some ideas.


[^0]:    ${ }^{1}$ https://www.popularmechanics.com/science/math/a37329769/supercomputer-calculated-pi-to-record-breaking-628-trillion-digits/
    ${ }^{2}$ https://www.theguardian.com/science/alexs-adventures-in-numberland/2015/mar/13/pi-day-2015-memory-memorisation-world-record-japanese-akira-haraguchi

