

▶ **The Square-Sum Problem - Numberphile** - This is the original video starring Matt Parker where he explains the Square Sum Problem. It was posted January 11, 2018, and can be a great place to start if you want to start thinking about the square sum problem on your own. The video is approximately 9 minutes long.

▶ **The Square-Sum Problem (extra footage) - Numberphile** - This is a video containing the outtakes from the previous video. It was also posted on January 11, 2018. It talks about the process of writing about the Square Sum Problem in the book. The video is approximately 9 minutes long, Not the most important video, but definitely entertaining.

[The Square-Sum Problem Forum Thread](#) - This forum thread was started on January 11, 2018 by henryzz. It contains all of Robert Gerbicz work on the original proof as well as conversation between other mathematicians about the project. It is definitely an interesting read, but it can be difficult to understand when you are first learning about the project. The thread as of July 12th, 2024 can also be found as a [PDF](#) in our GitHub repository as you now need to make an account to access the thread on the original site.

Within the thread there are a few other important links:

[Gerbicz's Proof](#) that there exists a hamiltonian path for all  $25 \leq n \leq 1048576$  and there exists a hamiltonian cycle for all  $32 \leq n \leq 1048576$ . This proof is explained further in post #9 in the forum thread.

[Gerbicz's Proof for all  \$n\$](#)  - This zip file contains Gerbicz's C code that can be used to provide a solution for all  $n$  less than  $2^{63}$ .

▶ **Numberphile's Square-Sum Problem was solved! #SoME2** - This video by HexagonVideos was made July 29, 2022 to explain the Gerbicz proof from the forum proof in a more accessible way. At some points it seems like it is a slight oversimplification to the point that it is slightly confusing. However, it is a great starting point when attempting to understand what exactly Robert Gerbicz is doing in his proof.