# How to Code a Sandcastle (How to Code with Pearl & Pascal, #1)

*Josh Funk , Sara Palacios (Illustrator) , Reshma Saujani (Foreword)*

# How to Code a Sandcastle (How to Code with Pearl & Pascal, #1)

*Josh Funk , Sara Palacios (Illustrator) , Reshma Saujani (Foreword)*

**How to Code a Sandcastle (How to Code with Pearl & Pascal, #1)** Josh Funk , Sara Palacios (Illustrator) , Reshma Saujani (Foreword)
From the computer science nonprofit Girls Who Code comes this lively and funny story introducing kids to computer coding concepts.

Pearl and her trusty rust-proof robot, Pascal, need to build a sandcastle before summer vacation is over, and they're going to do it using code. Pearl breaks the big we-need-a-sandcastle problem into smaller steps, then uses conditionals, loops, and other basic coding concepts to tell Pascal exactly what to do. But building a sandcastle isn't as easy as it sounds when surfboards, mischievous dogs, and coding mishaps get in the way! Just when it looks like the sandcastle might never work, Pearl uses her coding skills to save the day and create something even better: a gorgeous sandcastle kingdom!

## How to Code a Sandcastle (How to Code with Pearl & Pascal, #1) Details

Date : Published May 15th 2018 by Viking / Penguin
ISBN : 9780425291986
Author : Josh Funk , Sara Palacios (Illustrator) , Reshma Saujani (Foreword)
Format : Hardcover 44 pages
Genre : Childrens, Picture Books, Science, Computer Science, Coding

⬇ **Download** How to Code a Sandcastle (How to Code with Pearl & Pasc ...pdf

📄 **Read Online** How to Code a Sandcastle (How to Code with Pearl & Pa ...pdf

**Download and Read Free Online How to Code a Sandcastle (How to Code with Pearl & Pascal, #1) Josh Funk , Sara Palacios (Illustrator) , Reshma Saujani (Foreword)**

# From Reader Review How to Code a Sandcastle (How to Code with Pearl & Pascal, #1) for online ebook

## Michele Knott says

This is a book that will teach a wide audience. Between the curriculum ties (STEM, coding, how to book) and it being a picture book in the "girls who code" series (check out the chapter books), there are going to be a lot of readers for this book!

---

## Shaye Miller says

Pearl is on her last day of summer vacation and she's yet to actually build a sand castle. So she brought along her robot, Pascal, in hopes of getting help. She starts by telling Pascal to build a sandcastle, but he just sits there — it's a no-go! Why? Because her directions are too broad.

> "…a coder takes one big problem and breaks it into several smaller ones. If I give Pascal enough instructions that he does know, we'll build this castle in no time!"

Pearl begins breaking down each step, adding in a loop, and in the end she faces… DISASTER! Her castle is in shambles and she will have to start all over. However, she learns from her mistakes and figures out a much better way to build her castle. It takes patience and diligence, but she finally succeeds.

I'm very pleased to find a new book on coding AND with a female main character. This would be a great way to introduce coding to a young group of children (or a way to reinforce a coding lesson to students who are already learning to code). The accompanying illustrations were rendered digitally in combination with gouache and acrylic paintings. This book is the first of a new sequel, so I'll be interested in seeing what they decide to code in book #2.

For this and more #kidlit, #mglit, and #yalit book reviews, please visit my blog: The Miller Memo.

---

## Casey Lyall says

This book is so cool! It's such a fun way of introducing the concept of coding to young readers (I learned things too!) A great read-aloud option that's sure to spark lots of conversation and interest.

---

## Julie Kirchner says

Coding is all the rage in our school district. Students do it during tech class, they take after school enrichment classes in coding, they code at home! This book will inspire budding coders to try their hand at this fun hobby. I love the illustrations and the back matter that explains the coding terms used in the book.

I'm excited to see future books in this series.

## Erin Buhr says

Fun and creative introduction to coding. I love how the author integrated the basics of coding into this cute story about building a sandcastle. I hope there will be more books in this series.

## Pink STREAM says

Coding is almost this century's writing. Without knowing to code you are illiterate. This is why nowadays books like "How to code a sandcastle" are the most popular and parents' choice. This book teaches basic coding terms, illustrates pretty, and makes a fun story from them for kids.
In the first page of the book, there is Reshma Saujani's, founder of Girls Who Code (Girls Who Code is a nonprofit organization which aims to support and increases the number of women in computer science.), foreword. There she wrote, "... you don't have to wait until middle school or late to introduce girls to coding..." Every girl should be familiar with coding. They shouldn't ask what's coding when they are in high school. This book does a good job about these topics. We are all hoping that our future women will be scientists, engineers, coders, programmers, and whatever they want to be. And we are all hoping that we will close the gender gap between men and women in STEM areas as soon as possible.
One of the best things about the book is the main character is a very cute, curious girl. So this will break down the stereotyped ideas about girls cannot be in the STEM fields.
Illustrations of the book are excellent. Unlike some movies and books, there is a robot named Pascal and he is very cute. So children will not be scared of robots conversely they will love them.
At the end of the book, there is a small dictionary for some of the coding terms so if you want to review them you can look and have more ideas about them.
Don't give up! Be brave! and Just do it, super coder!

## Babies to Bookworms says

I love this book! I am a big fan of books that make STEM subjects interesting and relatable for kids. This book explains simple coding terms in reference to an activity that kids can recognize and relate to. The main character is a young girl named Pearl who breaks down her problem (how to build a sandcastle) into smaller problems. She then uses simple coding techniques and language to get her robot Pascal to build the sandcastle. I really like how she gives definitions for the coding vocabulary, and also shows some of the trial and error of teaching the code to her robot. The characters are often funny and the story will keep kids entertained while also teaching them. The illustrations are bright and vivid, complementing the story with the entertaining antics of the well meaning robot. I highly recommend this book to kids of all ages!

## James Bailey says

This book arrived at the perfect time! We have participated in the Hour of Code for a couple of years but just launched a K-5th coding curriculum at my elementary school. Josh's book provides a fantastic introduction

to coding.

Pearl has been spending the summer trying to build the perfect sandcastle. She finally decides to program her robot, Pascal, to build it. Pearl walks the reader through some basic coding commands. Pascal and Pearl have some hilarious encounters along the way. This book is fun and provides a great way to introduce coding to your students. I highly recommend this book! I love some of the inside coding jokes that were in the book. Things like starting the book by saying "hello world" and having one of the characters named after a coding language.

---

### Ro Menendez says

I originally purchased this book because I have so far liked all books by Josh Funk. As a librarian who teaches coding to her students K-6 I have used the code.org curriculum, and although for the most part it is fantastic, I was never very excited about the "unplugged" activities that were available for younger coders. How to Code a Sandcastle will be my go to book anchor from now on! It takes a familiar activity, be it because the reader has engaged in this activity or has been exposed to it by TV or books, and weaves the concepts of what coders do, how they approach a problem, and the basic commands of sequence, loop, and if-then-else, in an accessible, fun, and most of all, practical way! Pearl and Pascal's teamwork and problem solving skills are those young readers can relate to, and their adventures with a sand castle, can easily prompt readers to recreate using other situations and materials. This is a keeper in our coding, making, problem solving library!

---

### Mary Ann says

Love the problem solving outlook that Pearl has, experimenting and trying things again. This picture book introduces young kids to the concepts of coding while keeping the story flowing. I especially like how the illustrations help reinforce and explain concepts like looping. A great into to coding for young kids.

---

### Alia says

A little Brown girl just wants to build a sandcastle at the beach. She realizes she can use code to teach her robot Pascal how to build an epic sandcastle! Funk's sense of humor is great, as usual, and I love how he makes coding simple and easy to understand for children. Palacios' illustrations are lovely and will make you yearn for a warm sunny day at the beach. Great first collab between GIRLS WHO CODE & Penguin. #GirlsinStem #SummerRead #PictureBooks #DiverseBooks

---

### Jana says

Children are learning about technology concepts such as computer coding at younger and younger ages. So this fun summertime picture book that tells the story of young Pearl and her quest to build the best sandcastle ever is a terrific way to introduce this topic to both young readers and the grown-ups who care for them (many of whom are also unfamiliar with coding). According to the foreword written by Reshma Saujani

(founder and CEO of Girls Who Code): "Girls Who Code is an organization that wants to teach every girl to learn to code! And you don't have to wait until middle school or later to introduce girls to coding. Just like kids begin to learn about subjects like animals, history, and space before they get to kindergarten, we want to make coding a familiar part of every child's world. By introducing the core concepts of coding to children now, we're helping prepare them for a future of changing the world through code." This book is a terrific addition to any child's bookshelf, as this important topic is going to be an essential component of his or her education.

### Caitlin Zonder says

Yet another amazing book by Josh Funk. It is such a clever way to teach the basics of coding. It would be a great read for anyone who wants to understand what coding is. I seriously think my mother needs to read this! Kids will enjoy this as both a story and a learning tool.

### Tracy Clausen says

My first thought was, "Great, let's ruin the carefree joy of beach play with computer coding...*yawn*" - but this book is completely adorable! Perfectly explains basic coding concepts for the youngest readers. Highly recommended for use in the elementary classroom.

### Niki (Daydream Reader) says

My second-fourth grade students loved this book. A great introduction to coding. We read this book and then did some fun coding apps on the iPad.