

Three ways app developers keep kids glued to the screen—and what to do about it

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From learning numbers to learning how to brush your teeth, it seems there's a kids' app for everything.

Recent US statistics indicate more than half of toddlers and three-quarters of preschoolers [regularly access mobile apps](#). So it's no surprise there has been an explosion of options within the app market to keep kids engaged.

These apps certainly offer some fun interactive experiences, not to mention good educational content in many cases. They're also very good at keeping young minds engaged. So what's the catch?

You just read it: they are *very* good at keeping young minds engaged—so much that kids can struggle to put their devices down. If you've ever wondered why it's so hard to tear your child from their device, read on.

What is persuasive design?

Although there are [national recommendations](#) to help guide parents through the minefield of kids' screen time, there is a hugely under-acknowledged piece of this puzzle—and that's the way the technology itself is designed.

[Persuasive design](#) refers to strategies that grab and hold our attention. It's something both kids and adults experience (usually unknowingly) while scrolling through social media or fighting the urge to play another round of Candy Crush.

If persuasive design can influence the screen-use behaviors of adults—who have supposedly developed regulatory skills and self-control—then toddlers and kids don't stand a chance. This aspect of the screen-time debate is rarely scrutinized with the seriousness it deserves.

To find out just how persuasive kids' apps can be, we applied a [well-established model](#) of persuasive design to 132 of the most popular early

childhood apps downloaded by Australian families via the Android and iOS app stores. [We found](#) three main ways persuasive design features keep kids coming back.

1. Motivation

A key concept in persuasive design is to tap into kids' emotions to ensure they stay motivated to engage with the app. This is done by:

- **offering pleasure through rewards.** Kids are still developing their ability to [delay gratification](#). They're more likely to seek an immediate reward of lower value than wait for a reward of higher value. In the context of apps, they're likely to be motivated by instant rewards that bring happiness or excitement. The apps we tested offered many more instant rewards (such as sparkles, cheers, fireworks, virtual toys and stickers) than delayed rewards.
- **provoking empathy.** Just as adults seek [positive feedback](#) through "likes" on [social media](#), kids love receiving social feedback from characters they admire (think Hello Kitty, or Bluey). Kids often attribute human [feelings and intentions](#) to fictional characters and can form [emotional ties](#) with them. While this can help foster a positive learning experience, it can also be exploited for commercial purposes. For instance, character empathy is at play when Hello Kitty looks sadly at a shiny locked box of food that can only be opened in the paid version of the app.

2. Ability

No one wants to play a game that's too difficult to win. Ability features

provide kids with continuous instructions to reduce the likelihood of disengagement.

One way to increase a child's sense of mastery is [repetition](#). Many early childhood apps include rote learning, such as making the same cookie over and over with the Cookie Monster. By including tasks that are quick to learn and repeating them, app designers are likely trying to tap into childrens' growing [sense of autonomy](#) by helping them "win" on their own.

So what's the problem with that? While repetition is great for learning (especially for developing minds), the removal of any requirement for help from a parent can encourage more solitary use of apps. It can also make it harder for parents to engage in [social play](#) with their child.

3. Prompts

Commercial prompts were the most common trigger we found in early childhood apps, especially free apps. They have one main purpose: to bring in revenue.

Prompts include pop-up advertisements, offers to double or triple rewards in exchange for watching an ad, or prompting the user to make in-app purchases. While adults might be able to see prompts for what they are, kids are much less likely to understand the underlying commercial intent.

So what can be done?

There's no doubt some of these features in moderation help maintain a basic level of app engagement. But our research makes it clear a lot of persuasive design features simply exist to serve business models.

We need to have more conversations about ethical design that doesn't capitalize on children's developmental vulnerabilities. This includes holding app developers accountable.

The early-childhood app market is vast. Parents often won't have enough information on how to navigate it, nor enough time to assess each app before downloading it for their child. However, there are a few ways parents can get an upper hand:

- talk to your child after they've played with an app. Ask questions like "what did you learn?", or "what did you enjoy the most?".
- play the app with your child and decide if it's worth keeping. Are they getting smothered by rewards? Are there many distracting prompts? Is it too repetitive to be genuinely educational?
- look for the "[teacher-approved](#)" indicator (on Play Store) when considering an app, or check reviews from trusted sources such as [Children and Media Australia](#) and [Common Sense Media](#) before downloading.

Ideally your child should be leading the play, actively problem-solving, and should be able to end their time on an app relatively easily.

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