## Context: A Movie List

In this chapter, we'll start with an example program and improve it little by little, without adding any new functionality. This important programming task is called refactoring.

Our initial program is about recent Batman movies. The data comes under the form of an array of objects, with each object describing a movie.

```
const movieList = [
                                                                                   6
        title: "Batman",
        year: 1989,
        director: "Tim Burton",
        imdbRating: 7.6
      },
        title: "Batman Returns",
10
        year: 1992,
        director: "Tim Burton",
11
12
        imdbRating: 7.0
13
      },
        title: "Batman Forever",
15
        year: 1995,
        director: "Joel Schumacher
17
        imdbRating: 5.4
      },
        title: "Batman & Robin",
22
        year: 1997,
        director: "Joel Schumacher
23
24
        imdbRating: 3.7
25
      },
26
        title: "Batman Begins",
28
        year: 2005,
        director: "Christopher Nola
        imdbRating: 8.3
```

And here is the rest of the program that uses this data to show some results about the movies. Check it out, it should be pretty self-explanatory.

```
1 // Get movie titles
2 const titles = [];
3 for (const movie of movieList)
4 titles.push(movie.title);
```

```
6 console.log(titles);
9 const nolanMovieList = [];
10 for (const movie of movieList)
     if (movie.director === "Chris
     nolanMovieList.push(movie)
12
15 console.log(nolanMovieList.leng
17 // Get titles of movies with an
18 const bestTitles = [];
   for (const movie of movieList)
    if (movie.imdbRating >= 7.5)
21
     bestTitles.push(movie.title
24 console.log(bestTitles);
26 // Compute average movie rating
27 let ratingSum = 0;
28 let averageRating = 0;
    for (const movie of nolanMoviel
     ratingSum += movie.imdbRating
31
                                                                              []
```