System Requirements:
Atari® 400, 800, and XL Series Home Computers™
32K RAM (min.) DISK/TAPE
16K RAM (min.) CARTRIDGE
JOYSTICK(s)—1 or 2
IBM* PC or PC junior.
128K RAM
JOYSTICK(s)—1 or 2 OR KEYBOARD

Player Options:
1 or 2 Players can play using 1 or 2 Joysticks.

Loading:
Disk—Remove all cartridges. Computer should be off. Turn on the disk drive. When the busy light goes out, insert disk with the label side up. Close drive door. Turn on computer.
Atari: Game will load and run automatically.
IBM*PC/PC Jr.: Insert disk into drive 1, close disk drive door. Turn computer on.
Cassette—Remove all cartridges. Computer should be off. Place tape into the cassette recorder. Press REWIND to make sure tape is completely rewound. Press PLAY on the recorder.
Atari: While holding down the START key, turn the computer on. After a signal (beep), press RETURN on the computer. The tape will start to turn and load the program. After several minutes the game will run automatically.
Cartridges—Turn off any peripherals. Place cartridge into the cartridge port and turn the computer on—the game will run automatically.

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Function Keys:

**Start:** Press key (see below) and the First Star logo will be replaced with the menu, which allows you to select various options.

**Atari:** Press START key

**IBM PC/PC Jr.:** Press Space Bar.

**Option:** To select the number of players and joysticks,
1. Player, 1 Joystick
2. Players, 1 Joystick.
3. Players, 2 Joysticks.

**Atari:** Press OPTION key

**IBM PC/PC Jr.:** Keyboard Option: UP/DOWN Arrow keys for level of play; LEFT/RIGHT Arrow keys for cave selections; ESC key for player selections. Joystick(s) Option: One of the buttons on your joystick control will correspond to the ESC key on the keyboard; the other button will correspond to the SHIFT key.

**Joystick Trigger:** You will start at CAVE A—Difficulty Level 1 if you just press the joystick trigger without making a selection.

When Rockford is destroyed, press trigger to continue.

**PAUSE:** When you wish to pause gameplay just press the spacebar on your keyboard. At the top of the screen will appear prompts to remind you that the game has been paused. Press the spacebar again to continue.

**Escape:** In order to start again when surrounded and trapped on all sides by boulders. (Use only when you are trapped—you will lose one Rockford when you use this option).

**Atari:** Press ESC key

**IBM PC/PC Jr.:** Press ESC key

Game Objective:

The objective of Boulder Dash is to search throughout each CAVE and collect as many Jewels in as short a time as possible. Once the indicated amount of Jewels are collected, the door to the mysterious escape tunnel is revealed and you go to the next level. Strategy and planning will help you master the "physics" of Boulder Dash. Boulders drop predictably enough, but you and Rockford also have to block growing Amoebas, transform Butterflies, outmaneuver Fireflies, and overcome other numerous obstacles.

Chances:

Each player starts with 3 chances. Bonus tries are awarded after every 500 points. The tunnels created by Rockford will "shimmer" when you are awarded a bonus try. A bonus is also earned by completing a Playable Intermission.

Caves and Levels:

There are 16 CAVES, each comprised of several scrolling screens, numbered A through P. Each CAVE has 5 Difficulty Levels. To select a different CAVE, move the joystick arm left or right when you are in the menu screen. To select a different Difficulty Level, go to the menu screen and move the joystick arm up or down. The greater the difficulty the less time you have and the more Jewels you have to collect. You may choose CAVE A, E, I, or M, on Difficulty Levels 1-3. On Difficulty Levels 4 and 5, you must start with CAVE A.

After making a selection, press the joystick trigger to begin the game.

**Caves:**

* A. Intro. Pick up Jewels and exit before time is up.
B. Rooms. Pick up Jewels, but you must move boulders to get all Jewels.
C. Maze. Pick up Jewels. You must get every Jewel to exit.
D. Butterflies. Drop boulders on Butterflies to create Jewels.
E. Guards. The Jewels are there for the grabbing, but they are guarded by the deadly Fireflies.
F. Firefly Dens. Each Firefly is guarding a Jewel.
G. Amoeba. Surround the Amoeba with boulders, so it can't grow anymore. Pick up Jewels that are created when it suffocates.
H. Enchanted Wall. Activate the Enchanted Wall and create as many Jewels as you can.
I. Greed. You have to get a lot of Jewels here, lucky there are so many.
J. Tracks. Get the Jewels, avoid the Fireflies.
K. Crowd. You must move a lot of boulders around in some tight spaces.
L. Walls. You must blast through walls to get at some of the Jewels. Drop a boulder on a Firefly at the right time and place to do this.
M. Apocalypse. Bring the Butterflies and Amoebas together and watch the Jewels fly.
N. Zigzag. Magically transform the Butterflies into Jewels, but don't waste any boulders and watch out for the Fireflies.
O. Funnel. There is an Enchanted Wall at the bottom of the rock tunnel.

P. Enchanted Boxes. The top of each square room is an Enchanted Wall, but you'll have to blast your way inside.

(* = Selectable)

Scoring:

The current point value is shown on the top left of the play screen, to the right of the picture of a Jewel. The number of points per Jewel changes. The point value is determined by the CAVE, Difficulty Level, and bonus status. The bonus value occurs after the required number of Jewels have been collected. Every 500 points the tunnels sparkie for a moment and you get another Rockford.

You also score 1 bonus point for each second of time remaining when you exit the CAVE.

Note: During gameplay, the scoring bar located on top or bottom of the screen will tell you the current status of play for the particular cave and level of difficulty selections as follows:

| # OF JEWELS REQUIRED | POINT VALUE | # OF JEWELS COLLECTED | TIME | TOTAL POINTS |

Playable Intermissions:

There are 4 short interactive puzzles which you are entitled to play after completing CAVES D, H, L, and P. There is no penalty for not playing or losing the intermissions. If you complete a Playable intermission successfully, you receive a bonus Rockford.

Game Elements:

ROCKFORD. This little fellow is the star of the game! Rockford has the power to dig through the earth and collect the jewels found along the way. He can push single boulders horizontally if there is nothing to block their path. Rockford can stand directly under a boulder without being crushed, but if a boulder or Jewel falls on him, you will lose one Rockford. As gameplay begins, you are allotted three Rockfords, that is, three chances to rack up points before being destroyed or moving on to another cave or level of difficulty. If you lose all three Rockfords before advancing to the next cave, you will have to start again.

Boulders. The rocks will fall whenever gravity dictates. They will fall straight down if unsupported, or they will topple off underlying objects if there is nothing to block their way. Experimentation is the best way to learn the "physics" of Boulder Dash.

Jewels. You must collect the required number of gleaming diamonds in order to exit one CAVE and advance to the next. There are many ways to create Jewels. For example: transforming Butterflies, suffocating Amoebas, or dropping boulders through an Enchanted Wall will create additional jewels. When the proper number of Jewels have been collected a flash will let you know that the escape door is revealed and open.

Fireflies. Beware the deadly Fireflies; they will explode on contact with Rockford. (Helpful hint... their behavior is predictable as they only move along the edges of the exposed areas). Try turning the tables by dropping boulders on them, which causes them to blow up. (This comes in handy when you want to demolish a wall in order to get some Jewels).

Butterflies. The colorful Butterflies behave much like Fireflies. However, they fly in the opposite direction of the Fireflies and they turn into Jewels when they explode.

Amoeba. The Amoeba is a green blob that bubbles and grows through earth and air. Rockford can touch it without harm. Fireflies and Butterflies will explode on contact with the Amoeba. When Rockford surrounds the Amoeba with rocks, it runs out of growing space, suffocates and turns into Jewels. However, if the Amoeba grows too large (about 200 squares big) it will die and turn into boulders.
Enchanted Wall. The Enchanted Wall looks like any other wall, however when hit by a falling boulder it begins to vibrate for a limited time. During this period, any boulders that drop through it are magically turned to Jewels, but only if there is empty space below the wall. It will also turn Jewels into boulders if they drop through it. Once the enchantment phase is complete, it cannot be reactivated in the same round.

Titanium Wall. The exterior wall is an indestructible boundary to play action. Rockford can only exit to the next CAVE through the escape door.

Escape Door. Initially the Escape Door looks like a portion of the Titanium Wall. After Rockford has collected the required amount of Jewels, it is activated and begins to flash. At this point the mysterious escape door is revealed and you may exit, providing time doesn't run out.

Time. Each CAVE is timed. When time is running out a warning sound will occur.

Strategy/Tips:

Rockford. Rockford can affect an object that is next to him without moving into it. Keep the joystick button depressed and move the joystick in the direction of the object or earth you wish to affect. Rockford will not move, but the object will react.

Boulders. You will often find yourself digging or moving downwards only to find that a boulder has been toppled by your movement and is about to land on you. The only way to avoid losing your man in these situations is to move quickly to the right or left, out of the boulder's way. Rockford runs as fast as a boulder falls, so it will never catch up to you, unless you hesitate or stop.

Exit. When Rockford has collected the required amount of Jewels for the CAVE he is in, the Exit is revealed. At this time you should decide whether to go for bonus Jewels (at a higher value) or to exit for the time bonus points (1 for each second remaining). Make sure you know the location of the escape door and you can get to it before time runs out.

CREDITS

Program design by Peter Liepa
Original Concept by Chris Gray
Thanks to Steve Yolleck, Tom Marttinen, Ken Weymouth and Bill McLean
Documentation graphic design: Nick Moscovitz