

# SPACE CAMP NEWS



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Apollo 11 astronauts (from left) Buzz Aldrin, Neil Armstrong and Michael Collins spend time with SPACE ACADEMY Level II trainees. They are (from left) Heather Bruckert, Northboro, Massachusetts; Karen Vogt, Danbury Connecticut and Sonra Schuler, Stuart, Florida.

## FIRST MEN ON THE MOON RETURN TO HUNTSVILLE

A once in a lifetime experience. That's the way hundreds of SPACE CAMP® students must have felt.

They were fortunate enough to be a part of the 20th anniversary of the Apollo 11 moon landing. During that two-week span eight former Apollo astronauts visited The Space & Rocket Center to talk

with trainees and the public.

The former astronauts included Alan Shepard, Alan Bean, Pete Conrad, Jack Schmitt and Charlie Duke.

Also, moonwalkers Neil Armstrong and Buzz Aldrin and their Apollo 11 crewmate Michael Collins took part in a special re-

enactment called "Footprints on the Moon."

Many of the astronauts pointed out that SPACE CAMP and SPACE ACADEMY programs are a good springboard to produce more young talent in the fields of space exploration, technology and engineering.



# AVIATION CHALLENGE OPENS IN 1990

## In Brief

- \* Begins next summer
- \* Week-long sessions
- \* 40 students per week
- \* Open to freshmen, sophomores & juniors
- \* Emphasizes mental and physical skills required of high performance pilots
- \* Training at special ground school and water survival areas

## Aviation Challenge Dates

June 3-8	June 10-15
June 17-22	June 24-29
July 1-6	July 8-13
July 15-20	July 22-27
July 29- Aug. 3	Aug. 5-10
Aug. 12-17	Aug. 19-24
Aug. 26-31	Sept. 2-7

A new challenge awaits high school students at the U.S. SPACE ACADEMY.

It's called Aviation Challenge and is scheduled to begin next summer in Huntsville. The week-long sessions will limit enrollment to 40 students per week.

"Aviation Challenge will allow participants to develop their interests in the education, training, skills and work required of high performance pilots. It's a very exciting and rewarding venture," said Edward O. Buckbee, founder of SPACE CAMP®.

Students will train at a facility being constructed around a lake. Facilities include the F-4 Phantom aircraft flight simula-

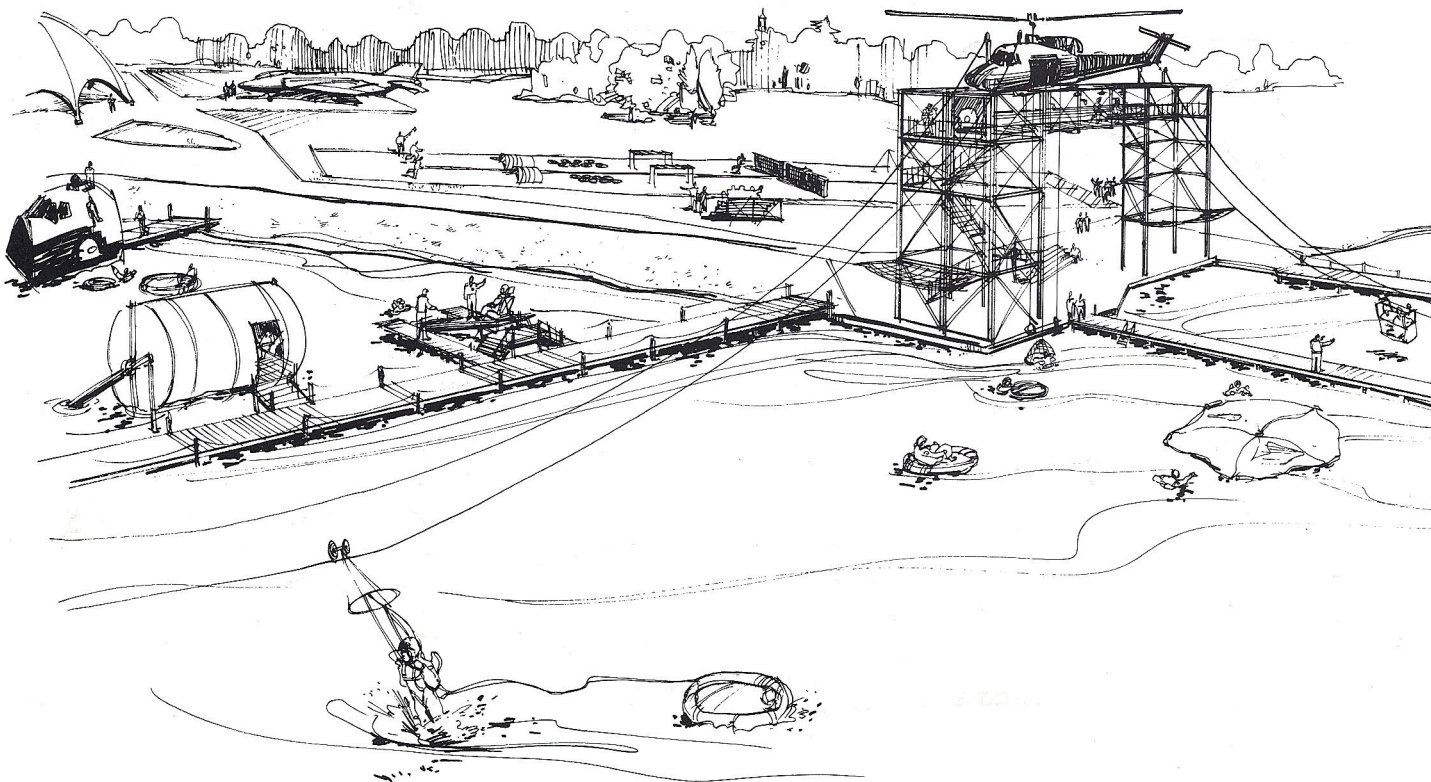
tor, a F-4 procedures trainer, land and water survival areas and a tower equipped for water recovery.

Each session will be topped off with an exciting mission assignment for Aviation Challenge flight crews.

Aviation Challenge is a response to numerous requests about programs for youth interested in aviation careers.

"All pilot astronauts and many mission specialists began their flight careers as military high performance jet pilots," said Buckbee.

If you're interested in more information about Aviation Challenge, call 1-800-63SPACE or (205) 837-3400 to be put on a special mailing list.



An artist rendering of the Aviation Challenge training area.



# SPACE ACADEMY LEVEL I EXPANDS CAPACITY

Many young people who were turned away from SPACE ACADEMY Level I in 1989 because of the small size of enrollment per sessions will have a much better chance to attend in 1990.

Why? Because the staff will no longer be limited to teaching only SPACE CAMP or only SPACE ACADEMY Level I, as it has been since Level I started in 1985.

"Team leaders will be trained to teach both programs next year, not just one," said Deborah Barnhart, the director of SPACE CAMP.

"Some weeks we will have a higher number of students in SPACE

CAMP while other weeks the majority may be in Level I.

"The increasing demand for Level I is caused by an increasing number of graduates of SPACE CAMP who want an advanced program, as well as more non-camp graduates hearing about the program."

Barnhart says the total number of trainees on site will not increase, but the ratio of Camp versus Academy will be flexible on a weekly basis.

In addition, the growing number of SPACE CAMP graduates from the Florida location is also in-

creasing the demand for Level I training.

Enrollment for SPACE ACADEMY Level I is already substantially ahead of registration a year ago.

Mrs. Barnhart said the policy is being announced early to give those who are unable to attend in 1989 an advanced opportunity to sign up and not be closed out again next year.

She encourages youngsters to register now to avoid disappointment.

## QUESTIONNAIRE RESULTS

What did you think about your stay at SPACE CAMP or SPACE ACADEMY?

A survey was conducted weekly among trainees from grades four through 12 who attended SPACE CAMP, SPACE ACADEMY Level I or SPACE ACADEMY Level II.

SPACE CAMP trainees had a high opinion of being taught to make and launch a rocket. They also rated the 5DF, one-sixth chair and manned maneuvering unit simulators as favorites.

But, by far, the simulated shuttle mission rates as tops. About 90 percent of those polled said it was "excellent" or "very good."

SPACE ACADEMY Level I and II graduates felt strongly about the realism of the simulated shuttle missions, the content of written material and training equipment. Also, scuba training was a favorite among Level II trainees. Ninety-

three percent said the underwater astronaut training was "excellent" or "very good."

Trainees in all levels had a high regard for counselors. More than 75 percent rated team leaders "excellent" and gave high marks to counselors for being knowledgeable, friendly and helpful.

What about living quarters? The Space Habitat received an overwhelming rate of "excellent."

The desire to attend SPACE CAMP is evident in a question about how much trainees contributed to pay tuition. Many said they pitched in at least half and worked extra chores to make the money.

Will you return? About 60 percent say you want to attend either SPACE CAMP or one of the SPACE ACADEMY levels in 1990.

Thanks for taking time to be a part of the survey!

## Letters To SPACE CAMP

Dear SPACE CAMP:

After attending the teacher program at Space Camp, I devoted an entire month to the aerospace theme in our elementary school library media center. I set up exhibits, gave lectures to 58 different groups ranging from kindergarten through fifth grade. All 1,237 kids were interested - no kidding!

I lectured on new space technology I learned at SPACE CAMP which was more current than information they received from classroom teachers and our basic textbooks.

I am not a native Alabamian, but I'm more proud of Alabama now for providing this excellent educational resource. I'm looking forward to sending my two sons to SPACE CAMP in the future.

Carol Rielien  
Bay Minette, AL  
Elementary School

## PAPER ROUTE PAYS FOR TRAINEES

Two newspaper carriers from Valencia, Fla., used their routes to fund a trip to SPACE CAMP at Titusville near the Kennedy Space Center.

Brian Phillipson and Todd Schoenbaum, seventh and fifth graders, delivered *The Newhall Signal* since last fall to save money for camp. Both are former students in the Young Astronauts

Program offered after school at Meadows Elementary School.

The Young Astronauts Program is conducted by teacher Cathy Riske, who has had a love of space all her life. "I want to teach the children more about space. I want them to ask, 'What's out there!'"

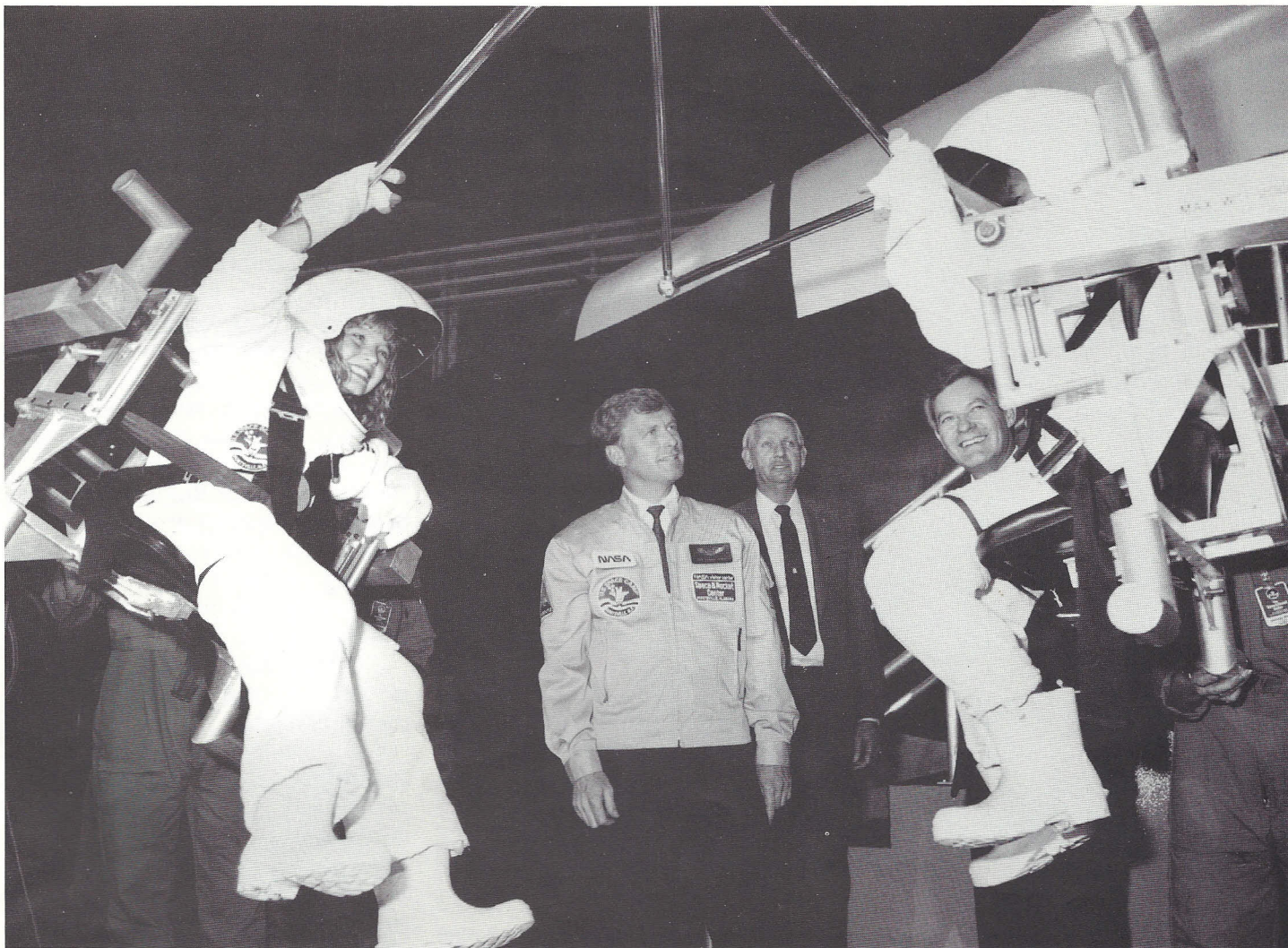
The teacher's mother, Robin Kline, a Scottsdale, Ariz., teacher, was a candidate for NASA's Teacher

in Space program, and is currently a NASA ambassador.

The boys agreed that their interest in attending SPACE CAMP and pursuing studies in math and science are a result of their teacher's influence.

The youngsters arose at 6 a.m. to deliver the newspaper to more than 80 homes in order to attend SPACE CAMP in Florida.





Vice President Quayle gets a close up look as SPACE ACADEMY trainees' Amanda Montague (left) of Tuxedo Park, N.Y. and Fuykia Saka of New Milford, N.J. go about their mission in the Five Degrees of Freedom simulators. Alabama Governor Guy Hunt and Space Center Director Edward O. Buckbee (right) watch the exercise.

## QUAYLE CHALLENGES TRAINEES

"The future is in your hands, and you are the future. And, let me tell you something - so is space."

Vice President Dan Quayle issued that challenge during a visit to SPACE CAMP as he addressed a large gathering of trainees and visitors at Space Shuttle Park.

He also toured the SPACE CAMP Training Center, saw simulators in action and talked to several trainees.

Quayle said, "The young people of America have their eyes cast to the future. Space inspires young people, leading them to rewarding careers of science and engineering."

As head of the National Space Council, Quayle said he realizes that young minds will lead the way in reaching space program goals set by President Bush, who has also

visited SPACE CAMP.

A few weeks later Quayle recalled his trip to Huntsville when he visited the Jet Propulsion Laboratory on Voyager's "encounter day" with Neptune. He told a nationwide audience he was "gratified" by his meeting with SPACE ACADEMY trainees.

The Vice President explained that he was introduced in Huntsville by a 17-year-old trainee who asked him to tell President Bush "that a member of his generation would plant an American flag on the planet Mars. That young man is obviously excited about the space program. In fact, his generation is excited about space."

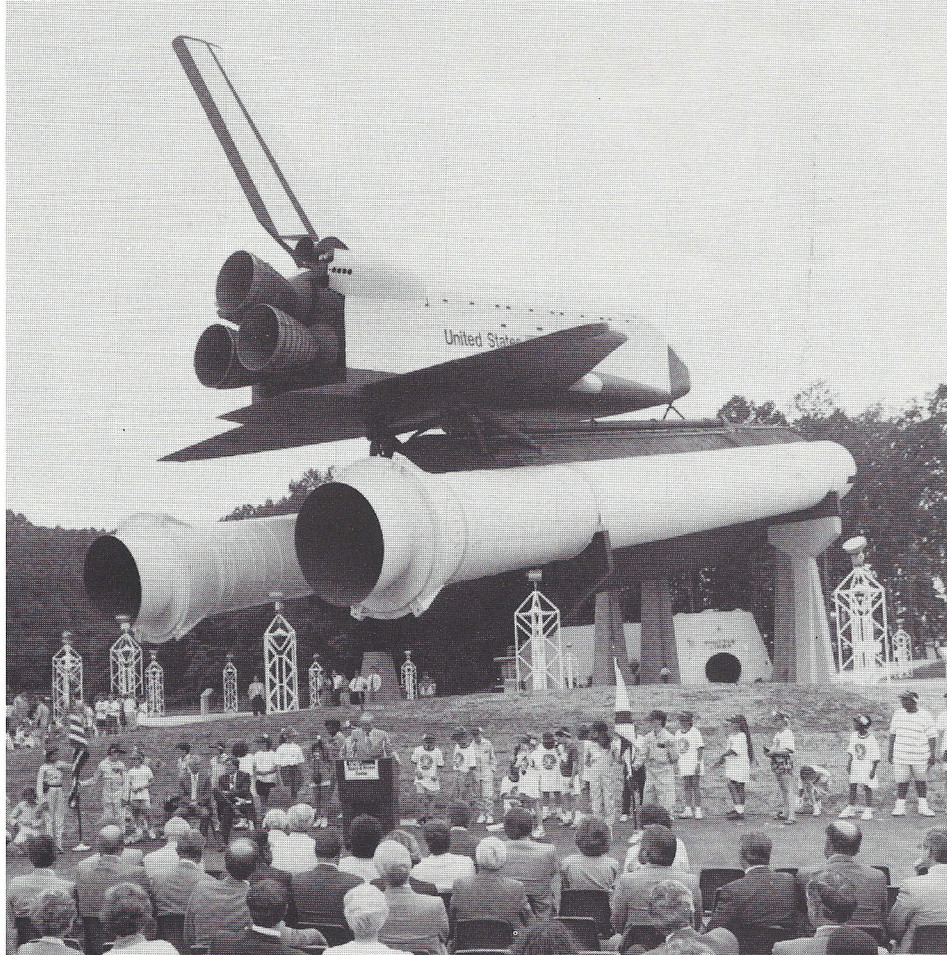
Quayle used the illustration to underscore the Bush Administra-

tion's strong support for the Space Station Freedom and an increased NASA budget and to encourage youngsters to study math and science.



The Vice President gives a thumbs up to SPACE CAMP trainees involved in a simulated shuttle mission launch.





SPACE CAMP trainees join dignitaries and hundreds of other visitors to officially open Space Shuttle Park.

## TRAINEES HELP OPEN SPACE SHUTTLE PARK

Several hundred Space Camp trainees released red, white and blue balloons to climax the dedication of Space Shuttle Park, completing the world's only full size shuttle exhibit.

Representatives of the NASA-Marshall Space Flight Center unveiled a large boulder containing a plaque dedicating the park to the Challenger.

Former astronaut Owen Garriott, who flew on the second Skylab mission and the first Spacelab shuttle flight, noted the presence of a large group of Space Camp students. He said the nation's space program needs to remain vigorous for members of their generation.

The exhibit consists of a orbiter, external tank and solid rocket boosters.

The orbiter mockup named Pathfinder tested equipment and procedures later used to assemble shuttles in Huntsville and at the Kennedy Space Center in Florida. Two of Pathfinder's main engines were used on the first four shuttle missions.

The orange external tank is 154 feet long and weighs 33 tons. Flanking the external tank is a pair of solid rocket boosters built as test equipment for NASA. The "nose" of the right SRB flew on the first shuttle launched in 1981.

An attractive plaza surrounds the shuttle, which is illuminated nightly.

## Space Camp Shorts

### SCHOLARSHIP WINNER

A 15 year-old-Portland, Oregon boy is the winner of a \$20,000 college scholarship sponsored by U.S. SPACE CAMP and the International Paper Company, headquartered in Memphis, Tenn.

Brian McAleer's 50-word essay on "Our Future in Space" was selected from thousands of entries. He and 29 second prize winners will also receive scholarships to attend SPACE CAMP.

Here's Brian's essay: "By the year 2010, space station research will produce new medicine, better alloys, advanced robotics, faster electronic components, more accurate weather forecasting, and a cleaner environment. These and other discoveries made in orbiting O-G labs will improve health care, transportation, communication, and the quality of life on Earth."

### HAVE YOU SEEN THESE?

If you eat Kellogg's Raisin Bran, chances are you've seen the current offer of free astronaut ice cream on the package.

In cooperation with the U.S. SPACE CAMP, Kellogg's is expecting to redeem 500,000 free packages over the next few months.

In addition, the cereal maker is sponsoring a sweepstakes to award 150 trips to Huntsville and Titusville in 1990. Check displays in your local supermarket for information.

\* Have you been to the dentist's office lately? If so, you might have seen a Crest poster contest announcement. Crest, in cooperation with SPACE CAMP, is sponsoring a contest with a "Crest in space" theme.

\* Do you watch "Double Dare," "Teen Win Lose or Draw," or "Think Fast" game shows? If so, you might see SPACE CAMP promoted on these shows.

### JUST IN TIME FOR CHRISTMAS

If space related items top your early Christmas Gift list, you may want to order SPACE GEAR, the official Space and Rocket Center and SPACE CAMP gift catalog.

Inside are pages of items to help satisfy the holiday gift wish of any space enthusiast.

Choices include: watches, duffle bags, patches, flight suits and jackets, hats, T-shirts, Saturn V and shuttle inflatables, sunglasses, books and video tapes.

To receive your free catalog, call toll free at 1-800-533-7281.



# STUDENTS COMPUTE "ONE SMALL STEP"

Several SPACE CAMP students took "one small step" with a computer which became one giant leap for international space cooperation.

They made SPACE CAMP history by exchanging messages via Apple computers with several Russian children in a demonstration test that is leading to more joint cooperation.

It was after school in Moscow when a Russian boy typed out the first message to SPACE CAMP trainees at 8 a.m. local time in Alabama. SPACE CAMP founder Edward O. Buckbee was in Russia to observe the exchange.

During the 90-minutes of the computer test over regular telephone lines, youngsters on both sides of the world exchanged questions and answers on such issues as musical tastes, clothes and interest in science.

The Soviet children attend an aerospace study program after school at the Young Pioneers Place, the closest approximation to the Russian equivalent of the American SPACE CAMP program.

Buckbee told a television reporter covering the Moscow side of the exchange that he was proud of the international spirit of cooperation and interest exhibited by both sides.

That cooperation took another step a few weeks later when



This setting at Camp Red Sails in Ufa, Bashkiriya, about 600 miles east of Moscow, provided students from the Soviet Union, Poland and Bulgaria a chance to talk with the U.S. SPACE CAMP delegation about space, physics and math. Representing SPACE CAMP were (from left, in T-shirts) Anna Cherepanov, Katharine Roller, Deborah Barnhart and Mark Hines.

Deborah Barnhart who directs SPACE CAMP, visited Ufa, Bashkiriya in the Soviet Union.

She was accompanied by Mark Hines of Honolulu and a graduate of the Teaching the Future program. Also on the trip were Level I graduate Anna Cherepanov, 15, of Gervias, Ore. and Katharine Roller, 17, of Staunton, Va. Katharine attended both Level I

and II twice and won the Right Stuff award three of these four times.

The four representatives exchanged information on space related topics in what the Russians call "a program for young talent."

In return, at a later date, the Russians may send a teacher and students to take part in SPACE CAMP.

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