Next AUF$ representative to speak on Brazil problems

Professor of agricultural economics to be heard in three houses and Graduate-Faculty luncheon

Next Monday, January 26, the second of four representatives of the American Universities Field Staff will arrive at Caltech. Lawrence W. Witt, an economics professor specializing in agriculture, is to report on his recent tour of Brazil during a week-long stay there.

Note: The following is an excerpt from the original text:

> ... classes are present in hair and some biological materials. Each of these consists of a central molecule, coiled into a spiral, and six other molecules, which are themselves coiled around the central molecule to form the seven-strand cables. This coiling closely resembles that of the axon and it is thought that the individual strands are coiled around the central molecule. Each of these is a complex of a central molecule, coiled into a spiral, and six other molecules, which are themselves coiled around the central molecule to form the seven-strand cables. (Continued on Page 5)

Schedule for rest of term's Assemblies already set

Tech Institute to be reorganized

The Caltech Institute is now being revived and is soliciting applications for a new Institute of Technology. The Institute will be located in the new building and is expected to open its doors in the fall of 1953.

Tech awarded cancer funds

A $10,000 grant for cancer research at Caltech has been made possible by a gift from the American Cancer Society. The grant is used to support the work of Dr. J. P. Nolte in the field of cancer research.

YMCA offers film classics

As a result of the small amount of publicity on this term's Film Classics Series, all of the memberships were not filled. For this reason, the Caltech YMCA and Film Art Society are extending memberships for the four remaining films to those who purchased tickets in advance. The films are scheduled for the following dates:

- January 29: The Caltech Symphony Orchestra is slated for a performance of the world premiere of "The Facts of Life," a study of sex and fertility. Dr. Nolte will be present to discuss the film with the audience.
- February 1: "The U.S. and Brazil" will be shown with the participation of a representative of the Brazilian Embassy.
- February 8: "The Middle East" will feature a discussion with a representative of the American University in Beirut.
- February 15: "The African Drums" will be shown with a presentation by a representative of the African Studies Department.

Richard Nolte describes Middle Eastern culture

While Richard H. Nolte of the American Universities Field Staff was in Beirut last year, the California Tech was able to interview him about his experiences in the Middle East. He plans to speak at the university on January 24 to discuss his travels.

Beginners to learn fencing technique

The Caltech Fencing Club had its first meeting at 7:30 p.m. January 11, in the recreation room in lower Fleming. Committee members were appointed to take care of equipment and to investigate the problem of finding an instructor.

Wanted: instructor!

The purpose of the club is the promotion of the art and sport of fencing at Caltech. The club invites anyone, regardless of experience or equipment, to join. They hope to have a program which will appeal to all from novice to expert.

At present instruction is limited to the basic techniques of fencing and if a professional instructor is obtained there will be instruction for the more advanced fencers. Interested parties should contact either Don Robinson, Tom Blacker, 27, or Ron Cochran, 52.
How Interesting!

Now and then we feel the press of studies set up a little, and being absorbed into the texts of a certain kind. Thinkers that perhaps a library is a place to find such literature, and that they would be helped by reading, searching in the shelves we found very little to catch our fancy. We found plenty of old novels, plays and poems and many more books analyzing these same or any new or current literature.

The catalog says: The Humanities Library, in Dabney Hall of the Humanities, provides materials in literature, history, and the other non-technical fields, and offers additional books for general cultural and recreational reading. The shelf of new books would probably show how wide these purposes are fulfilled. This shelf now has the following books: Readings in Biblical Theory, The Eyes of Discovery (about exploring), From our Fancy. We found plenty of old novels, plays and poems and many more books analyzing these same or any new or current literature.

President's message

Intercollegiate and intramural athletics are very important to us as students personally and are held in high regard by the faculty. Practice, especially for Caltech teams where 1½ to 2 hours per day is the maximum possible, is of the utmost importance in shaping a strong team and maintaining a reasonable level of competition to match other schools.

The situation has been discussed several times in the AFROTC which includes four classes per week plus drill. The coming of the AFROTC the number of four o'clock classes has greatly increased. This past year some football players, especially those run to five o'clock are detrimental to the teams because they are not able to give the required level of competition to match other schools.

Classes scheduled for four o'clock and lab courses that end as late as 2 p.m. are particularly affected. Two or three days of practice per week in association with the classes cannot be arranged because of the number of classes and lab courses that end as late as 2 p.m. during the afternoon. The number of four o'clock classes now is apt to exceed the maximum number possible, is of the utmost importance.

Classes that run until 6 p.m. are detrimental to students because they cannot give the required level of competition to match other schools.

In our fancy. We found plenty of old novels, plays and poems and many more books analyzing these same or any new or current literature and searching in the shelves we found very little to catch our fancy. We found plenty of old novels, plays and poems and many more books analyzing these same or any new or current literature.
SEC'S AT TECH

by Bernie Schweitzer &

It looks to us, like there are more girls named Pat than all the other names put together. Sure enough, this week's choice is named Patricia, "Pat," Paulita.

Pat works up on the second floor of Throop Hall in the accounting office. Her official designation is that of voucher clerk, which, after many minutes of concentrated explanation and discussion, we were able to decipher.

Pat was born in Columbus, Ohio, and came to California last year after spending six months working for the Ohio Bell Telephone Company.

Pat's sporting interests range from golf to bowling. She claims that her golf game consists mostly of caddying for her husband.

Duties of ASCIT officers

Big T Editor

Being Editor of the Big T is a good job for a man who wants to express his artistic, literary, and photographic abilities. Most of the art work on the Big T is present in photography, although there is some drawing. The editor must see that the photographs and type are arranged on the page in a manner pleasing to the eye. Planning of the photography to be taken and editing them presents a great opportunity for original and imaginative work.

Yearbook theme

By choosing the right theme for the yearbook, the editor can give himself the chance to write on one or more of the topics that interest him at the time he is publishing it. Then, under the literary heading, comes a mass of proofreading for him to do.

Presidential Message

(Continued from Page 2)

the past two months at Board of Directors meetings, and it has been discussed with the athletic department and other interested people. This Thursday night, January 22, at the Board meeting at nine p.m. the problem will be brought up for discussion and action.

The plan of action decided upon is as follows: at the meeting Thursday a resolution will be presented for discussion and action. If passed the resolution will go to the next Student Faculty Relations Committee meeting and then to the Faculty Board. If the resolution is approved by all three groups, the registrar's office will have the authority to attempt to arrange for the schedule with a minimum of problems.

The theme of the resolution to be presented is that we of the student body value highly the continuation of intercollegiate and intramural sports at Caltech and (Continued on Page 3).

Flicker Flashes

by Ken Cockroft

Now playing at the State is one of the current rash of biographical movies. This one differs from the usual Hollywood variety not only by being made in Britain but by being better than average. J. Arthur Rank's production of "The Magic Box" should be rated as one of the best of the season.

Photography fans should be particularly interested in this movie as it is the life of William Friese Greene, who was one of the early (and relatively unknown) photographers. He was a pioneer in the field of motion pictures and one of the inventors of the movie camera. Aside from the historical significance, the movie is a moving story of his life through two marriages, several bankruptcies, changes of address and laboratories.

The story is told simply and convincingly; and, although it could, is never does become maudlin. Color could be better, but the photography is excellent. This once movie that leaves a feeling of truth: the simplicity of presentation and the fine acting of Robert Donat, Margaret Johnston and Marion Jeffreys gives the feeling of inevitability which is the true meaning of tragedy.

Accompanying "The Magic Box" is the "Man in the White Suit" with which most Tech men are familiar.

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YOUR COLLEGE SHOP

—DRESS—WEAR—SPORT—CASUAL CLOTHES

526 E. Colorado

"Men's Distinctive Fashions"

Open Fri. & Mon.

Till 9:30

Fowler's

No money ends get in your mouth—

6. Fully packed case

For cleaner, fresher, smoother, sale on Lucky Strike for me!

Irenee Ralen

New York University

Nothing-nothing-beats better taste

LUCKIES TASTE BETTER!

Cleaner, Fresher, Smoother!

Ask yourself this question: Why do I smoke?

You know, yourself, you smoke for enjoyment. And you get enjoyment only from the taste of a cigarette.

Lucky Strike taste better—cleaner, fresher, smoother! Why? Luckies are made better to taste better. And, what's more, Luckies are made of fine tobacco. L. S./M.F.T.—Lucky Strike Means Fine Tobacco.

So, for the thing you want most in a cigarette... for better taste—for the cleaner, fresher, smoother taste of Lucky Strike...

Be Happy—GO LUCKY!

It's always an occasion—

When you make a lucky strike for cleaner, fresher smoked cigarretes!

Beverly Daniels

Oberlin College

Where's your Jingle?

It's easier than you think to make X's by writing a Lucky Strike jingle like this one. Yes, we need jingles—and we pay $25 for every one we use! So send as many as you like to: Lucky Go LUCKY, P.O. Box 67, New York 16, N.Y.

IT'S EASIER THAN YOU THINK TO MAKE X'S BY WRITING A LUCKY STRIKE JINGLE LIKE THIS ONE. YES, WE NEED JINGLES— AND WE PAY $25 FOR EVERY ONE WE USE! SO SEND AS MANY AS YOU LIKE TO: LUCKY GO LUCKY, P.O. BOX 67, NEW YORK 16, N.Y.
Y.M.C.A. fragment of society—the barge, whose world is a river boat. "Zero de Conduite" is about life at a boarding school interpreted by the eyes of children. Both films reveal a humane intelligence and an instinctive mastery of the medium. When Vigo died at the age of 30, France lost one of her greatest exponents of the cinema.—Griffith, "The Films Since Then."

The program on February 23 is "Our Daily Bread" (American, 1934). Directed and produced by King Vidor. The film examines one solution to the problem of unemployment—a return to the land. The last program, on March 9 is "The Italian Straw Hat" (French, 1927). Directed by Rene Clair. "Around a simple dual theme of a man who was a little hard of hearing and the destruction of a lady's straw hat, Clair wove a film that was not only exceptionally witty but a penetrating commentary on the pettiness of the bourgeoisie.

DU PONT ESTABLISHES
(Continued from Page 1)

Search in chemistry, with the schools themselves determining the lines of work to be undertaken.

The postgraduate teaching fellowship given to Caltech is to be offered to an outstanding graduate student having two years' experience as a half-time teaching assistant in the chemistry department. The recipient will be required to continue to teach on a half-time basis during the time of his appointment.

WHY DO YOU EARN 2½ TIMES AS MUCH AS YOUR GRANDFATHER?

Most people do. And they earn it with 1½ fewer hours of work. The average factory employee in the U.S. earned 19¢ per hour in 1890. Today the average factory employee earns $1.65 per hour. When you convert these earnings into real dollars, today's factory employee earns 2½ times as much as his counterpart of 1890.

The reason for this is that today's factory employee has far better and more elaborate tools to work with. For example, the average Union Oil employee of 1890 had only about $5,000 worth of tools. Today's average Union Oil employee has over $60,000 in tools at his disposal.

Because of these tools, he can produce more and thus create many times more wealth with his day's work. And the more wealth he creates, the more he earns.

For only in that way can we Americans continue to produce more, create more wealth, and thus earn more than any other people in the world.

UNION OIL COMPANY
OF CALIFORNIA

Incorporated in California, October 17, 1900

This series, sponsored by the people of Union Oil Company, is dedicated to a discussion of how and why American business functions. We hope you'll feel free to send in any suggestions or criticisms you have to offer. Write: The President, Union Oil Company, Union Oil Building, Los Angeles 17, California.

Manufacturers of Royal Triton, the amazing purple motor oil.
DUTIES OF 3OCIT (continued from Page 2) of 10% on their sales, and the total sales amount to about $110,000. Mr. Aylor's profits 10% on all ads sold by the 3OCIT. This salary is paid on a commission basis because it is not possible for all Tech advertising and the $3000 that appears in the newspaper can also be easily make more than $5000 commissions during the year.

Money, money, money
About 70% of the total cost of this rag is financed by advertising, both national and local, and the responsibility for obtaining it is solely in the hands of this man. He must spend a few hours each week soliciting and buttering up various groups and people for local ads, on which he takes a cold 30% cut for himself. The minimum job is to collect Union Oil (salam!), and Angell and Company, but the bus mug still gets a four per cent cut on all these.

Balancing the budget
Advertising rates are fixed so that the paper can just break even, so that the business major must be constantly on his toes if he does not want a revenue to appear on the books, as it customarily has in the past.

(Continued on Page 7)

CAMPUS BREWINS

“Feel of the Week.”

The influence of Pomona, it seems that Kenyon Hall made quite an impression on the gentleman of the west. The basketball game Friday and the party afterward at Curry’s saw Darbs Stockbridge, Johnson and Levy escorting the Pomona beauties.

Bryan and Pechacek, exploiters of the Claremont Theory, found out that information obtained by the study of X-ray diffraction patterns of the amino acids which make up proteins, and also of the X-ray patterns of the proteins themselves. The Caltech investigators now believe that the X-ray diffraction method should provide significant information about the structure of abnormal proteins involved in disease and that it may prove to be a tool in fundamental medical research.

PHOTOGRAPHY

The Space Beaver

By WALT LEE

Four Sided Triangle (Alexan- der) has arrived on Caltech’s campus for three weeks, has arrived in this country, and will be released at the end of its time as War of the Worlds (George Pal). It seems that Four Sided Triangle doesn’t get too many endorsements from the critics. They would much rather have had an actress like Ann Todd—or better yet, Joan Greenwood. They would much rather have had one for the love her viewers and her very poor role in Bride of the Gorilla. Walt Disney has just released his latest feature, and at the same time the floor will be open for discussion and Dr. Mindlin will attempt to answer the questions that have been put forward by the audience.

Since this is but the first of a series, the topics have not been chosen from the requests of Technem representing the five student guilds for the second lecture will be on February 10 and will concern itself with “The Technical Involved in Dating” discussing such things as, “Specialties of the Girl’s Actions,” “How to Overcome Feelings Against Engagements,” “The Importance of Dating.” (The fourth subject is “Short and Sweet: Follow These Rituals”)

ASGC DANCE

Let’s hear from your students of science at its very best for ASGC DANCE this coming March 6.

Please check the boxes and put in the “L” box in lower Throop or in any of the house’s L H houses.

Semi-Formal Dance

Suites for the fellows and formals for the girls.

Sport Dance

Horntail Ball

A bacchanalian costume party

Let’s Whomp

Your Idea

ing the 1 o’clock deadline. The method involves something about having the gals sign out overnights to s.m.r. from their apartment. Some Darbs wondered if the boys were going to make it to lunch Sunday.

ASCIT DANCE

PASADENA BOWLING COURTS

Pool and Billiard Tables

597 East California

Pomona

Wednesday night, Special Student Rate before 6 P.M.

CAMPUS INTERVIEWS

Thursday, January 29

Friday, January 30

The Place to Go for Brands You Know

Vogue and Call

Men’s Store

459 E. Colorado, Pasadena

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CAN you “take it” 6 days a week? For 52 weeks? Can you meet the high standards required to be an Aviation Cadet? If you can—then here's a man-size opportunity! An opportunity to serve your country and build a personal career that will fit you for responsible positions both in military and commercial aviation.

It won’t be easy! Training discipline for Aviation Cadets is rigid. You’ll work hard, play hard—especially for the first few weeks. But when it’s over, you’ll be a pro—with a career ahead of you that will take you as far as you want to go. You graduate as a 2nd Lieutenant in the Air Force, with pay of $5,300.00 a year. And this is only the beginning—your opportunities for advancement are unlimited.

ARE YOU ELIGIBLE?
To qualify as an Aviation Cadet, you must have completed at least two years of college. This is a minimum requirement—it’s best if you stay in school and graduate. In addition, you must be between 19 and 26½ years, unmarried, and in good physical condition.

YOU CAN CHOOSE BETWEEN PILOT OR AIRCRAFT OBSERVER
If you choose to be an Aircraft Observer, your training will be in Navigation, Bombardment, Radar Operation or Aircraft Performance Engineering.

New Aviation Cadet Training Classes Begin Every Few Weeks!
HERE'S WHAT TO DO:
1. Take a transcript of your college credits and a copy of your birth certificate to your nearest Air Force Base or Recruiting Station. Fill out the application they give you.
2. If application is accepted, the Air Force will arrange for you to take a physical examination.
3. Next, you will be given a written and manual aptitude test.
4. If you pass your physical and other tests, you will be scheduled for an Aviation Cadet Training Class. The Selective Service Act allows you a four-month deferment while waiting class assignment.

Where to get more details: Visit your nearest Air Force Base or Air Force Recruiting Officer. OR WRITE TO: AVIATION CADET HEADQUARTERS, U. S. AIR FORCE, WASHINGTON 25, D. C.

Visit your nearest Air Force Base or Air Force Recruiting Officer.

The Selective Service Act allows you a four-month deferment while waiting class assignment.

The Shakespeare Classics; King Lear (published in 1909) and a collection after he has read it. Letters written from 1774-1776 may interest the professional or amateur historian, but it certainly would have little appeal to the general reader who is more interested in the American Revolution. The American Revolution may interest the professional or amateur historian, but it certainly would have little appeal to the general reader who is more interested in the American Revolution.
Tech wires Pomona, LaVerne

by Patraw

Anyone who knows L.A. fig and Highway 66 at weekends to attend the basketball games was caressed to the grand unveiling of the new "double-post" offfense. Offense, long a hogweed of Tech teams, used to be a tem of "centerball" or, under the new Anson regime, a tem of "try and feed to Fred." However, the new double-post is just a way of burning the boards, an albiglee center in high school, has been definitely handicapped playing at guard. Now in the center, he can use his book with good results. And this new system takes a lot of pressure off Anson, who has been long and triple timed in league play. Rebounding and long-shot potential are also increased.

Strategy

Against a zone defense, Chambers plays out at the head of the main instead of alongside of Fred in a man-to-man. Tyler, the outstanding ball winner, whose jumping technique is the talk of the league, plays on the right side with either Shanks and Moody on the left. Brit and Madsen alternate at playmaker position.

Stars

Art Brit, who has won the hallsealing honors, played his best game of the year while his rating is somewhat of a two-game total of 20 points. He was hurt at LaVerne tossing a layup but he is now taking the full dose. Hoody Mooby got a solid double against LaVerne to pull out these defenses and provide for the victory. How Shanks can play his defense two but played a very cool game.

Back Seat

Incidentally, the LaVerne game was one of the best refereed games that Tech has seen around here. One ref did all the work, but he was merely fair! It is hoped that there will be no similar game when we hit some of the tougher opponents.

New Post

Winter 1953 is now starting and 16 are already signed up. More are needed including those who are interested in being in a ball team. It is a terrific deal and should be worth the PE credit. Pole vaulter are still in for coming out for track. There is a desperate shortage of cloud-sweaters. Bert LaBrucherie wants to see all those interested immediately.

SPACE BEAVER

(Continued from Page 5)

the of A Men (United Artists) was first chanced to Crack of Doom, but it is now to be called Implosion.

Enmore Fantastic Mysteries

The April, 1953, issue of FFM will feature "The White Neckless" by H. Rider Haggard. The cover for this leaflet will be by Lawrence, and the autograph will be around the title. It is hoped that it will be similar and shortened more than the books reprinted.

News Notes

Fantastic Science Fiction will drop its "portable" style cover in favor of cool scrawls with covers printing all over.

Bob Lowndes assures that Future Science Fiction and Dy

namic Science Fiction will have drawn edges with their next issues.

Dr. Edward Kramer Smith, Ph.D., is returning to the SF magaz-

times with a new story soon to appear in Other Worlds. He has been working on a new series of novels to be set in an entirely new universe. For the first sev

en years he has done most of his organizing notes, etc. The first of this new series may come out any year now.

Space is the title of a surprise anthology due early in 1953. It will include "Explosion Polyhedron," "Spectrum General," "Return of Legend," "Real Brother," and "Improle and Pettle."

Pond below double post way Redlands, Cal Poly next

The Swimming team had a marked improvement in the league via the Friday night win. The second win in as many days came as Tech blasted Conolly 62-52. The victory was due, in the main, to the running of Britt, who stole the ball several times and scored seven points. Art was second in scoring in zine while Fred Anson led scoring with a 19-point average in league play.

In the preliminary game the CT fresh were upset by Pomona freshers. The orange jacketed only the one who could hit with any consistency was Tom Perkal. Keeny had a soggy night and was handicapped in his runn-

Leopards Lowered

Fred Anson led scoring for the second game last week which will be at Redlands on Saturday. Fred will also try to kill the Tech record on Tuesday. See "Peekin' In" for more game details.

DUTIES OF ASCIT

(Continued from Page 5)

duties include the "making up" of the year end sports books be
corporate the paper goes to press, de
delivered to the printers to be printed, and also keeping books. Since the Institute must be ready for the new year, and about 250 bills are involved, a knowledge of writing is necess

Necessary (bookskeeping also).

Thus the boys are desirably

fulfilled with requisite qualifica
tions for business manager, but per
nounced the time and ambition to get out and sell advertising and to maintain a well-balanced budget.

—Chuck Benjamin.

Cheerleader

The most popular of the head cheerleader is the organi
commenting and leading of cheering and singing at football and bas-

ketball games and at rallies. These duties are, however, a great deal more than the "few hours" a week of games and rallies. Cheerleader prac
tice usually requires three hours a week for football and basketball seasons.

Besides making sure that all three cheerleaders are synchro

ded at all times, a cheerleader must keep up on all the routines, the head cheer

leader, the two other Rocket leaders, the re

headphones, and the head cheerleader, and also with the school officials as to their prep


cracy as a unit and as a complete cheer and songleading group.

The head cheerleader and the rally commission work togeth

er to organize one of the most

Page Seven

Thursday, January 22, 1953
DUTIES OF ASCIT (Continued from Page 7)
biggest school events of the first term, the Pajamarino. The form of the Pajamarino will constitute an important problem next year due to the box-stealing incident this year, but it is my conviction that, notwithstanding isolated letters to the Tech, the student body is predominantly in favor of the Pajamarino and I hope that the next cheerleader will strive to continue it.

There are numerous other jobs which should be tackled by the head cheerleader, since they involve important parts of school morale and spirit. The marching band has now been organized and outfitted with Caltech (not ROTC) uniforms but is still lacking a director with adequate time and capabilities to develop its full capabilities. A glee club, second only to a victorious athletic team for focusing school spirit, has been organized and is rapidly progressing but still needs a full-fledged director and will require constant publicity and backing to become a smooth functioning, competent unit. There is much work still needed on revising and supplementing Caltech songs and cheers.

Finally, as those who saw the Cal Poly half-time entertainment realize, our half-time entertainment is in need of vast improvement. Whether we win or lose football games our enthusiasm shown during the half is a big factor in raising our school spirit and other colleges' evaluation of it.

In conclusion, I'd like to say that there is a tremendous amount of opportunity for leadership and organization in the office of head cheerleader. And when you're out there leading cheers, you'll find the stands are far from lacking in spirit even in the midst of an acid-blood season. They realize high powered scientific schools can't always have high powered athletes, but they'll yell themselves hoarse backing those guys who are putting up the fight on the field.

—Dick Jafrt.

Rally Commissioner
The job of a Rally Commissioner is one of the most interesting and challenging of student body offices. Interesting because the Rally Commissioner is constantly dealing with people outside of Caltech, trying to sell himself and Tech to entertainers in an attempt to develop an assembly schedule. It is challenging in that his budget, which is about $500 per year, is not enough to pay for the best assemblies all year, and he must try to obtain superior entertainment at the lowest price.

The Rally Commissioner is a member of the Board of Directors and holds a seat in the student faculty relations committee. He has the help of a group of fellows known as the Rally Assembly Committee. These student-organized men are the key to his success or failure. The secret of the job is to have his whole commission organized with every man doing a job and doing it well.

By far the biggest job of the year is that of the Pajamarino. It is a time-consuming task. It is the ultimate test of a person's ability to organize a good working committee under him and to pull together the activities that must be perfectly synchronized in order to have a successful Pajamarino. Publicity is one of the biggest

NOW... Scientific Evidence on Effects of Smoking!

A medical specialist is making regular bi-monthly examinations of a group of people from various walks of life. 45 percent of this group have smoked Chesterfield for an average of over ten years.

After ten months, the medical specialist reports that he observed...

no adverse effects on the nose, throat and sinuses of the group from smoking Chesterfield.

“Chesterfield is the only cigarette I can speak for, because I've smoked 'em for 25 years. I recommend you try 'em. Then you'll say, as I do... MUCH Milder CHESTERFIELD IS BEST FOR ME!”

Ed Sullivan

Millions see him on TV’s “Toast of the Town” and read his famous column.

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