With the completion in the near future of the newly expanded Aeronautical Laboratory, Technology will take the lead of other universities in the development of engineering educational institutions of the highest order. It is expected that the building will be the first of its kind in the country, offering opportunities to teachers and students in research and advanced instruction and research. The building will be a symbol of the progress made in the field of engineering education.

This latest addition to the Institute is the result of the foresight and wisdom of our Trustees. It is expected that the building will be a symbol of the growth of Technology, and that it will be a source of pride and inspiration to those who have contributed to the success of the Institute.

The building will house the Aeronautical Engineering Department, which is already one of the most reputable departments in the country. It is expected that the building will provide the necessary facilities for the continuation of the work of the Department.

The building will be designed to meet the needs of the students and faculty of the Aeronautical Engineering Department. It will provide ample space for the instruction of students, and will also be equipped with laboratories, workshops, and other facilities necessary for the conduct of research.

The building will also be equipped with modern heating and ventilation systems, as well as other necessary facilities for the comfort and well-being of the occupants.

The construction of the building is expected to be completed within the next few years, and it is hoped that the building will be ready for occupation by the fall of 1930.

(Signed) ALVIN T. FULLER.

Dr. Harry W. Tyler, '96, has not yet returned to the Greater Technological State of Massachusetts, but he has already visited the Institute, having served as the President of the Faculty for nearly half a century. Dr. Tyler is probably as well known to the students of the Institute as any other member of the faculty.

In a recent interview with Professor Phillips, he expressed his desire to return to the Institute as often as possible, and to continue to be associated with the progress of the Institute.

It is not surprising that the aged and experienced statesmen of any profession should be called upon to advise and counsel the younger generation. The wise and experienced statesmen of any profession should be called upon to advise and counsel the younger generation.

Dr. Tyler has been a member of the Board of Trustees of the Massachusetts Institute of Technology, and has been a prominent figure in the development of the Institute.

Dr. Tyler has expressed his desire to return to the Institute as often as possible, and to continue to be associated with the progress of the Institute.

(Signed) JOHN H. P. ROBERTS.

Dr. Robert W. Reasons, a president of the Massachusetts Institute of Technology, has expressed his desire to return to the Institute as often as possible, and to continue to be associated with the progress of the Institute.

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(Signed) JOHN H. P. ROBERTS.
Funds Subscribed To Dormitory Construction

Subscribed by 44 of 60 classes. The sum contributed is necessary to complete preliminary arrangements for dormitory expansion. The records of the alumni association show that the idea of dormitory expansion was entertained early in the history of the Institute, but the necessity of securing the consent of an interested land owner precluded the prompt action which was planned.

Technology's Eastern Skyline After The Construction of Two New Dormitories

New Units Complete One Side of the Quadrangle

(Continued from page 1)

Southern End Will Be Left Open, Forming Three-Sided Court

The same time communications doors were left to permit the formation of rooms if it should be desired. Rooms, and good lighting were featured in the construction, and the mirrored glass in the bathroom was avoided by placing wash basins in every room.

The inside wall finish was unique in itself. Close scrutiny had been exercised in finding a wall finish that would be both durable and attractive, and the tiling was an interesting, orange-red. For greater dormitory facilities, dormitories to talk with.

Funds had the advantages of plaster and itself. Great difficulty had been experienced in finding a wall finish that presented a pleasant appearance. This means that at the summer term the obsolete cement wall will include a two-position gun, while the modern building is designed in the form of a complete double unit.

The same care and attention was given to the choice of wood as to the selection of materials. The dormitories are built of fir, a choice in itself. The color and grain of this wood are beautiful, and will permit every man in the dormitory to talk with any other man without leaving from his own room, and suitable arrangements will also be made for outside convenience.

Directory Expansion Demanded

The furniture and equipment of the new units are to be identical in those in which these units are described and projected. The dormitories to talk with are also to be the same size and character.

Southern End Will Be Left Open, Forming Three-Sided Court

The southern end will be left open, allowing the formation of a three-sided court, thus completing the second side of the quadrangle.

Columbia Corning Company, Inc.

Roofing and Sheet Metal Work of Every Description

A Few of the Recent Jobs Completed

Day & Kinder

Brockway Millwork Co.

Woodson Bros.

Johnson Bros.

Drummond Bros.

L. M. Norton, A. H. Gill, H. P. Edgeworth, and I have tried many grades of tobacco that I can out

Perhaps Many Older Alumni Remember When "Boston Tech" Looked Like This

Canadian students preferred to room alone; they are mostly too heavy, don't fit, and are not conducive to the health of the individual. As a result the old dormitory facilities have been found insufficient, and the necessity of providing a new dormitory, to which the students will have access, has arisen.

Edgeworth吸烟

Edgeworth Extra High Grade Smoking Tobacco

Arthur D. Little, Inc.

Columbia Corning Company, Inc.

Roofing and Sheet Metal Work of Every Description

A Few of the Recent Jobs Completed

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Edgeworth Extra High Grade Smoking Tobacco

Arthur D. Little, Inc.
MODERN INFIRMARY AUGMENTS THE PRESENT CLINIC

STRUCTURE WILL EMBODY LATEST METHODS TO CARE FOR EMERGENCY CASES

ENTIRE TOP FLOOR WILL BE SOLARIUM

Building Is Gift of Family Of Crew-Marty—Equipped By Institute Funds

The new infirmary, an important unit of the building extension program being carried out by the Institute, has an essential definite shape. Construction began last summer has been slowed up somewhat by the cold weather during the past several weeks, but the exterior of the building is now practically finished.

Though not particularly impressive in size of architecture when viewed as a whole, it presents a very solid and practical appearance which is quite suitable to its purpose. The structure forms a wing of Building 3 and is so constructed that the windows will be directly above the entrance to the quarters of the Department of Hygiene in the basement.

Named After Richard Homberg '23

This addition to the Institute has a very interesting history. Richard Homberg '23, whose family and friends have contributed the funds which make it possible, died in the year in which he was to graduate as a result of illness. He was a member of the soccer crew in the Richard Homberg Cup when the ship opened a sea. The police boat which approached to effect a rescue outboard struck the light ship which immediately sank. Homberg had already been suffering from the effects of an infection, and the injuries he was to suffer aboard ship were not more than the usual case of pneumonia from which he never recovered.

Though lessened by that his death could have been avoided had there been proper facilities for his care. Consequently they gave to the Institute the area of one hundred thousand dollars to be used toward the construction of a modern and adequate sterilizing laboratory.

The sterilizing laboratory which this new building will offer to the Institute is entirely the gift of the young man's family. The Institute will equip it from its own funds.

One thousand-dollar fund which the new infirmary along the infirmary. It would be impossible to maintain a room and dark room, and a dental waiting and recording room, a first aid room and dark room, and a dental waiting and recording room, a first aid room and dark room, and a dental waiting and recording room.

The operating room is of interest in that although it is not to be used much in case of emergency, it will be the work of the emergency doctors, they can be handled as well as though they were in a large hospital.

The matter of the personnel has not been decided upon as yet. It remains to be seen what number of people will be adequate. It is not practical to run the infirmary along the lines of the hospital, though it would be possible to maintain staff of highly-trained and well-paid nurses and physicians. It would be ideal, from an economic standpoint, to have it from its own funds.

Tech's Engineering Department took a year to decide — now, twelve years of Webster Heating has justified their ultimate decision

Back in 1916, after lengthy and careful comparative tests, a Webster Vacuum System of Steam Heating was adopted as standard for all buildings of the Institute by its own Engineering Department, in collaboration with William W. Bosworth, Architect, French & Hubbard, Consulting Engineers; Stone & Webster, General Contractors; Lynch & Woodward, Contractors.

Now, in 1928, the Institute can look back over twelve years of satisfactory heating with negligible maintenance and replacement costs and see how fully the Webster System has justified the approval of those who chose it.

Who We Are

Warren Webster & Company are a great deal more than mere manufacturers of heating equipment. . . . Webster Systems of Steam Heating are a combination of service, experience, equipment and engineering method.

Serving by a comprehensive organization of trained heating specialists across country from the States to Canada, the Webster System is the result of years of perfecting heating appliances proven correct in design by test and use. . . . Webster Systems of Steam Heating are a combination of service, experience, equipment and engineering method. . . .

More Than 46,000 Installations in America's Finer Buildings
A GREATER TECHNOLOGY ISSUE

In the field of commercial journalism, a twelve page issue means something almost too insignificant to mention, but to an organization set up to handle a tri-weekly journal of four page issues, it is of great importance. In producing the departments of the paper, the alumni have been straitened to at least three times normal space. The editors, copy men, and pressmen alike have been forced to suffer for the dreams of the undergrown editors.

These twelve pages, simple as they appear, represent a dream now months old—a dream which increased the pulse of those who saw its possibilities and circulation departments alike, and caused office typewriters to suffer untold strain. It means something almost too insignificant to mention, but to an organization set up to handle a tri-weekly journal of four page issues, it is of great importance. In producing the departments of the paper, the alumni have been straitened to at least three times normal space. The editors, copy men, and pressmen alike have been forced to suffer for the dreams of the undergrown editors.

To A. C. Westerfeld '31

A random Aldred Lecture William E. Nickerson '76, presented some original thoughts on the topic of "Knowledge among Engineering Colleges the world over."

A sentance or two of a description novel, is given a remarker the purpose of introducing the general style and name of a Spanish colony which is better known for its appreciation of spiritual values.

"Knowledge is more for the group than for the school. We do not have to learn to admit that it is something almost too insignificant to mention, but to an organization set up to handle a tri-weekly journal of four page issues, it is of great importance. In producing the departments of the paper, the Alumni have been straitened to at least three times normal space. The editors, copy men, and pressmen alike have been forced to suffer for the dreams of the undergrown editors."

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THE TECH SHOW PLAYS IN NEW YORK FEB. 3

'HALF A MAN,' 1928 PRODUCTION, GOES ON VACATION TOUR
Show Concerns Student’s Efforts to Disguise Himself From Four Detectives

PREMIERE AT HARTFORD

"Half-a-Man," Tech Show 1928, makes its premiere bow Thursday evening, February 3, in Parsons Theatre. It is expected to play before the biggest Hartford gathering in its history.

The Hartford Technical Club, through R. C. Alden its president, and H. M. Bacon chairman of the Tech Show Committee, working in co-operation with the University Dept. of the Show, has already broadcasted the coming of "Half-a-Man" to Hartford, and the result is that the anticipation is widespread. The announcement indicates that if the show contains a hint of what the curtain goes up for the overture, the R.O. sign will be in evidence when the show is pithy and clever. The efforts of the chorus and ballet something to be distributed as fast as the applications for tickets will be made.

The poster is attractive, black and white, with yellow and red. In the center is a clean-cut caricature in black and white of the hero to disguise his masculinity from the suspicion of the girls, gives his chorus and ballet something to do. This idea of a central theme is in conformity with that of last year's ring except which contains the beaver. In order to achieve a greater uniformity in the Class ring it has been decided to have a pair of rings of yellow gold with red stones. In these stones, there will be a choice of diamonds, garnet, ruby, or sapphire. Rings will either be the Bursar's or paying out the price of $16.50, and with the prices at $12.50. At present, the present plan is to put these rings on sale during the second week of the term as a special for a period of three days.

WHITING WILL GIVE SECOND OF CONCERTS

Many Changes Have Been Made in 1928 Volume

Arthur White's second Technol- ogy's student recital of this year's series will be presented before an audience of the student body, corporation and faculty in Room 1630 to arrive at 8:15 o'clock. There is to be a selection of seven movements which contains the beaver. In order to achieve a greater uniformity in the Class ring it has been decided to have a pair of rings of yellow gold with red stones. In these stones, there will be a choice of diamonds, garnet, ruby, or sapphire. Rings will either be the Bursar's or paying out the price of $16.50, and with the prices at $12.50. At present, the present plan is to put these rings on sale during the second week of the term as a special for a period of three days.

PHOS TELLS ABOUT BOSTON NIGHT LIFE

Boston Night Clubs.

In order to achieve a greater uniformity in the Class ring it has been decided to have a pair of rings of yellow gold with red stones. In these stones, there will be a choice of diamonds, garnet, ruby, or sapphire. Rings will either be the Bursar's or paying out the price of $16.50, and with the prices at $12.50. At present, the present plan is to put these rings on sale during the second week of the term as a special for a period of three days.

Boit, Dalton & Church

All Insurance

40 Kilby Street
BOSTON MASSACHUSETTS

Purdy & Henderson Company
INCORPORATED 1901

ENGINEERS

Building Construction Consultation Design Inspection Administration

Designing and consulting work for Architects a specialty

Vice President, N. A. RICHARDS, 1905
Chief Engineer, HENRY V. SPURR, 1908
OLD COLONY
Trust Company

The Bank of and for Technology Men

OLD COLONY as the bank of Tech men has on its staff the following who form an important part of its personnel:

FRANCIS R. HART '89 Vice Chairman
PHILIP STOCKTON '99 President
JAMES C. HOWE '02 Vice President
ARTHUR S. REED '93 THOMAS E. CROSBY '22
A. D. TADGELL '05 EDWARD WINSLOW '22
FRANK S. LOVEWELL '09 GEORGE S. PARKER '24
ARTHUR R. HOLT '19 H. C. SWEET '24
ELDRIDGE WASON '20 FOSTER GLADWIN '28

OLD COLONY as the bank for Tech men offers many facilities and conveniences which are of particular interest to them:

Its Uptown Office just across the Harvard Bridge, at the corner of Massachusetts Avenue and Commonwealth Avenue, is conveniently situated for the banking needs of Tech undergraduates. It is only a few minutes' walk from the many fraternity houses which line the banks of the Charles and places at the disposal of Tech men all the facilities of New England's largest Trust Company.
The construction of the new building will be begun as soon as the interior is finished. The plans and specifications for the building were prepared by the consulting engineer, and the building will be erected according to these plans. The building will be of the latest design, and will be equipped with all the latest appliances and equipment. The building will be ready for occupancy by the beginning of the next academic year. The building will be financed by the sale of bonds, and the bonds will be sold to the public at a low rate of interest. The bonds will be sold in amounts of $100 to $1,000, and will mature in ten years. The building will be located on a site selected for the purpose, and will be designed to meet the needs of the university. The building will be built in two stages, with the first stage completed by the end of the present year. The second stage will be completed by the end of the next year. The total cost of the building will be $500,000, and the construction work will be done by a reputable contractor. The building will be a beautiful, modern structure, and will be a credit to the university. It is expected that the building will be completed in time for the opening of the next academic year. The building will be a fine example of modern architecture, and will be a valuable asset to the university.
Individual Performances of The Engineer Leaders Have Helped in Advance of Sport

By Oscar Hedlund
Track Coach of Technology

Track at Technology has been one of the major sports for a good many years and we have had a great number of men report for exercise during these years. It probably has done more for the individual in the way of discovering competitive powers for future life. The competition in track creates for the individual, work which is done by himself only, not with the assistance of other members of the team. By this means who have been in track have been of great value in the business world when it comes to initiative powers.

Since 1924 the numbers have increased considerably at the Track team and with the growing attendance the teams have shown better in their dual competition. In that year the Engineer relay team won the Technical Officers relay at Penn and were in thirteenth in the New England championships. At that year George Lenox established a New Hampshire record of 1.56, breaking a record made by Tudor in 1915. He also ran second in the I. C. 4 A which was won by Stevens in 1.51. The Freshman Cross Country team scored third place in the I. C. 4 A and thirteenth in the New England championship.

The Freshman Cross Country team scored third place in the I. C. 4 A. Since that time the Cross Country team has done quite well. In 1926 the Cross Country team improved their position greatly by scoring second place, again winning that year. The Freshman showed well against Brown freshman, ran the heat. Four men finishing across the line at the same time. Any victory over Brown is very often in Cross Country. In the New England championships the Freshmen won the championship that year and this year the meet was in the New England track meet. As a result, making a new record. At the I. C. 4 A the Varsity team finished seventh place and the Freshman fourth.

Win New England in 1926

During the winter Lenox won the 600 yard special at the New Eng. games in 1.51. His time was a new record in the I. C. 4 A. The relay team won from Brown at the B. A. A. games.

Track Coach of Technology

Oscar Hedlund

Since 1924 the New England Track championships has been established another new record of 15 1/5 sec. at the New England championships the Sun was third place and the Freshman fourth.

SUCCESS

In business depends greatly upon the forming of proper building and mechanical work. The units for the spring season. In the track meet, the Cornell boys as they have been at the Penn relay games at Philadelphia executed a new school record of 10 1/6 in the 100 and 120 highs. With all his efforts he recovered from his injury.

THE TECH

Monday, January 16, 1928

INTEREST IN TRACK HAS INCREASED

The Massachusetts Institute of Technology

The Massachusetts Institute of Technology offers courses in Engineering and Science, each of four years' duration, leading to the degree of Bachelor of Science in:

- Aeronautical Engineering
- Architectural Engineering
- Biology and Public Health
- Building Technology
- Chemical Engineering
- Chemical Engineering Practice
- Chemistry
- Civil Engineering
- Electrical Engineering
- Electrochemical Engineering
- Engineering Administration
- General Science
- General Engineering
- Geology
- Industrial Biology
- Mathematics
- Mechanical Engineering
- Metallurgy
- Military Engineering
- Modern Engineering
- Naval Architecture and Marine Engineering
- Physics
- Sanitary and Municipal Engineering
- College of Engineering and Science

The Course in Architecture is of five years' duration, and leads to the degree of Bachelor in Architecture. A five year Cooperative Course in Electrical Engineering leading to the degrees of Bachelor of Science and Master of Science is also offered.

Graduate Courses leading to the degrees of Master of Science, Master in Architecture, Doctor of Philosophy, Doctor of Science and Doctor of Public Health are offered. The Courses leading to the degree of Master of Science include Cooperative Courses in Chemical Engineering Practice and Fuel and Gas Engineering.

The better high schools in the United States offer adequate preparation for the required entrance examinations given by the College Entrance Examination Board in June, or by the Institute in September.

Graduates of colleges or of scientific schools of collegiate grade, and in general all applicants presenting satisfactory certificates showing work done at another college corresponding to at least one year's work at the Institute, are admitted, without examination, to such advanced standing as is warranted by their previous training.

Any of the following publications will be sent free upon request:

- Catalogue for the Academic Year (which includes the admission requirements).
- Summer Session Catalogue.

Graduate Study and Research.

Correspondence should be addressed to The Massachusetts Institute of Technology.
Anticipating California's Future Growth

To meet the growth in California, the Southern California Edison Company added 429,000 horsepower between 1921 and 1925. This increase is 114% compared with 54% for the whole country in the same five-year period.

The company's present capacity is 807,000 horsepower and another five years' growth at this rate will see a demand of 920,000 horsepower power more.

A new plant now under construction will have the world's largest electric generators, the world's largest tandem compound turbines and the world's largest horizontal water tube boilers. It is designed for an ultimate capacity of 1,000,000 horsepower.

This is the sixth time Southern California Edison Company has employed Stone & Webster construction service in its program of extension.
Dwight P. Robinson & Company has had many years experience in design and construction work. The knowledge gained from this past experience is constantly broadened by intimate contact with a large volume of work now being done for which new ideas and methods must be continually developed.

Dwight P. Robinson & Company offers complete engineering and construction service. Any portion of this service is available; preparation of plans (except architectural) and engineering advice or construction under the direction of the owner’s architect or engineers; also reports, appraisals and economic studies of plant problems.

The activities of the organization cover a wide range and include as typical items the following:

**BUILDING CONSTRUCTION**
- Hotels
- Apartment Houses
- Theatres
- Warehouses
- Office Buildings
- Newspaper Plants

**INDUSTRIAL PLANTS**
- Sugar Refineries
- Foundries
- Smelters
- Textile Mills
- Lead Plants
- Chemical Plants
- Fertilizer Plants
- Pipe Lines and Pumping
- Lumber Mills
- Stations
- Tanneries
- Filtration and Disposal
- Shops
- Plants
- Steel Mills
- Harbor and Dock
- Boiler Plants
- Works

**RAILROAD WORK**
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- Locomotive and
- Freight Terminals
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ONE SMALL BOILER AND THREE LARGE ONES ARE UTILIZED

These need Nearly 70 Tons of Coal Per Day During Winter Months

USE ONLY HIGH-TEST FUEL

Variation in Power Demand Is Biggest Problem to Overcome

One of the outstanding features of the skyline of the Institute, and of Cambridge as well, is the huge smokestack of the Technology Power Plant. While it forms a less attractive and less distinctive feature of the buildings, it is much more important to the existence and operation of the Institute than the familiar stack of the Technology Power Plant.

These need nearly 70 tons of coal per day during winter months. The power plant must be adaptable to the power used in the Detroit buildings, and the entire group of Institute buildings. Important, but rather the equipment for the power used in the Institute than the familiar stack of the buildings, it is much more important to the existence and operation of the Institute.

Coal Plant Has Four Boilers

In order that it may meet this very big demand with the greatest possible efficiency the plant is equipped with one 275 horse power and three 120 horse power boilers. Only one of the large boilers is kept in operation at times of minimum demand, and when the maximum output is required, two of the large boilers, and three tons, are used, in this way one of the boilers is always being cleaned, and one is being filled in reserve for emergency use. These boilers furnish the steam to turbines which are directly connected to our direct current and three alternating current generators which supply the Institute with electricity.

Each of the boilers is equipped with a Rilley self-dumping stoker. There have motor driven plungers which feed the coal into the grate from the bottom of the bunker. These bunkers are automatically filled by an automatic filling engine which holds about two tons. This moves along in front of the boilers and fills the buffer bunker. The equipment assures uniformity of operation of the boiler, which is an important factor in obtaining the greatest possible efficiency.

Complete Combustion Obtained

Specially designed grates and an over-fired air pressure which can be regulated so that excess air is prevented from blowing through the partly burned fuel make possible the complete combustion of the volatile matter. This feature is of the utmost importance in the upkeep of the plant, and, at the same time, prevents smoke.

Although the power plant is equipped with a railroad siding the coal is almost always received in train deliveries. This method of delivery has been found more convenient than in the building of the fuel bunkers. The coal is dumped directly into a pit provided for this purpose and conveyed to the power house. If rail deliveries were made either a train equipment and handling would be necessary to get the coal into the pit.

Bunker Holds 300 Tons

From the pit the coal goes to a Stetson Adams Crusher which makes it fine enough so that it can be easily handled by the stokers. It is then picked up by a bucket conveyor which carries it up to the top of the boiler house, from which it is fed into the top of the grate by a feed chute. This bunker has a capacity of these hundred tons, so that the coal may remain in it for as much as a week, or sometimes even longer. During this time it has an opportunity to dry out, and as a result greater efficiency is obtained.

The plant using between 64 and 70 tons of coal every winter period. At heavy consumption the rate of 70 tons is used.

Although the coal is of the highest quality, it is subjected to searching electrical tests. The coal is analyzed in the Institute laboratories and this year the one selected showed 1.14 percent volatile matter, and 74.78 percent carbon, 19.69 percent volatile, 4.39 percent ash, 0.29 percent sulfur, 0.29 percent moisture, 1.14 percent volatile, and 74.78 percent carbon.

Thus the beaver became the official mascot of Technology and Technology has throughout intercollegiate circles, and today the distinguishing mark of an Institute man is a gathering of men of all colleges is the grey beaver but that he invariably wears on such occasions.

INSTITUTE MASCOT CHOSEN BY ALUMNI

Select Beaver as Typifying Spirit of Technology

(Continued from page 11) and considered was the beaver because like Technology it advances with ages and bounds and, like Dr. Masurine, has Australia for its birthplace. The elephant with its qualities of wisdom, patience, and strength was also thought well of but most especially because like all men who graduate from the Institute it has a tough hide. Neither of these animals can be used, however, as the committee finally decided. Mr. Gardner said, in Harvard's book on North American animals: "... and was the account of the beaver as given in this volume that impressed them." Of all animals the beaver is the most noted for its engineering and mechanical skill as well as for its habits of industry. His habits are social. Does his best and most efficient work in the dark. Thus the beaver became the official mascot of Technology and Technology has throughout intercollegiate circles, and today the distinguishing mark of an Institute man is a gathering of men of all colleges is the grey beaver but that he invariably wears on such occasions.

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Spirit of Technology

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