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San Luis Obispo, Cal.

The Polytechnic Journal
FACULTY AND STUDENTS OF POLYTECHNIC, 1907.
Irrigation

"Irrigation has been studied as a science and practiced as an art for many centuries, and yet we still have much to learn about this matter. The subject of irrigation is vital, it is of local, state, national and world-wide importance. It has been a potent factor in the upbringing of nearly all countries and is the greatest single factor in building homes, tending toward better homes as well as more homes. Where irrigation is practiced farms average about twenty acres each, where before irrigating they averaged 200 acres each thus we see that the extension of irrigation means the chance for about ten times as large a population. Because of the peculiar circumstances attending the growth of irrigation in California and the resulting mass of litigation in our civil courts, the study of irrigation is of great importance to all of us Californians.

"For the beginning of Anglo-Saxon irrigation in this country, fifty-eight years ago, one must go to Salt Lake Valley, where, in July, 1849, the Mormon pioneers turned the clear waters of a creek upon the parched and sun-baked soil, in order that they might plant the very last of their stock of potatoes in the hope of bringing forth a crop to save the little company from starvation. From this small beginning of irrigation by a civilized people in this country, irrigation has grown and spread wonderfully, but nevertheless its growth has but just begun. Its growth must have just begun because the western half of the United States has not nearly the rainfall which France, Italy and India have, and yet they irrigate very extensively. Dry farming is all very well in its place, but where irrigation is feasible, it should be practiced. Ours is a civilization which requires that every farmer shall be a thinker as well as a worker.

"Illustrations of what irrigation has done for us are numerous and easily found. Since the use of water began, citrus fruit lands of southern California have brought the annual returns of from $200 to $450 per acre. Land which was not worth $5 in its original condition has been irrigated, planted to orange trees and sold for $1700 per acre. Formerly a township would not support a family, but now with irrigation the lands in the orange districts of southern California are the most productive in the United States. Fifty thousand dollars was recently paid for sufficient water to irrigate 500 acres. Limited trains on the trans-continental railways from the East would not now be crowded, if Pasadena looked as it did when first viewed by the mission fathers. A very large gain has come from the beautiful landscapes created in these deserts by the oases of fruit and foliage, which, with our matchless climate, have made this section the resort of health and pleasure seekers from all parts of the globe. Los Angeles City is a creation of irrigation just as well as the orange groves about it.

"Now what are the possibilities for
the development of irrigation in California. One of them is the Sacramento Valley, which contains 12,000,000 acres of irrigable land. The Sacramento river flows enough water to irrigate 13,000,000 acres, therefore we see that there is water enough for all. The valley of the Nile maintains 5,000,000 people, supporting 543 people per square mile, by irrigation, while the Sacramento Valley, without irrigation, supports but twenty people per square mile, although it has as great possibilities as the valley of the Nile. Lands in Utah, with all the disagreeableness of its climate, bring $150 per acre when sold, because they are irrigated, while unirrigated lands of the Glenn estate in the Sacramento Valley bring from $10 to $40 per acre when sold. These lands might just as well be put under an irrigation ditch and be worth five times as much.

"The San Joaquin Valley is another illustration of what can be done. Its size is about one-third that of the Sacramento Valley, and as we all know very much of it is now irrigated from Kings, Kern, Stanislaus, and San Joaquin river, but a great deal more can be than is now done and better methods can now be used than formerly.

"The possibilities if irrigation development in the Salinas Valley are very good indeed. But little irrigation has so far been done, therefore since the United States government officials have already studied the situation, the project can be done in its entirety according to the latest and best methods. They valley is 100 miles long and from three to fifteen miles wide. The Salinas river drains 5000 square miles of territory on which falls an average of fourteen inches of rain per year. The necessity for irrigation is now seen by all the intelligent and progressive farmers of the valley. Irrigation by pumping is already practiced to some extent in the valley, but large storage reservoirs in the mountains to hold back the spring rains for summer use are what are needed in order for the entire valley to be irrigated. To get these reservoirs it is necessary for the United States government to take hold of the proposition, as it doing in parts of Arizona, Colorado, California and other states. More than this, the study of the proposition by the government officials developed the strong possibility of much artesian water being obtained by the boring of deep wells. Thus we see how we can create a veritable paradise of money-making forty acre farms from Paso Robles to Castrovile.

"By the proper agitation of this matter the government could be induced to take hold of the Salinas Valley project, as it has done with a number of other projects. The plan followed by the reclamation and irrigation service of the United States government is that the government builds the works and the farmers who receive the water pay to the government in ten annual installments the cost of the reservoirs, ditches, etc., and when the last installment is paid the farmers receive a deed from the government for the whole system. Thus the water is appurtenant to the land and speculation by capitalists is stopped. The cost varies from 50 cents to $3 per acre per year for ten years. Other projects which the government is now constructing are the Roosevelt dam in Arizona to irrigate 200,000 acres at a cost of $3,000,000; the Truckee-Carson project in California and Nevada, to irrigate 375,000 acres at a cost of $9,000,000; the Snake river project in Idaho, which will irrigate 150,000 acres at a cost of $3,750,000; the Klamath project, partly in Oregon and partly in California which will irrigate 300,000 acres for $17 per acre. In all the government is carrying on projects, or soon will, in thirteen states and three territories under the national irrigation law, which was passed by congress early in 1901.

"Because of the favorable report of
the engineers and because of the insufficient rainfall, the people of the Salinas Valley should urge the government to carry out a system of irrigation for the entire valley, and in a few years the Salinas Valley could be as thickly settled, far famed, lovely and prosperous as irrigated sections of the San Joaquin Valley are today.

"Now, ladies and gentlemen, to come still nearer home with the subject of irrigation, picture this beautiful city of ours if all comparatively level land within a radius of fifteen miles supported a family on each fifteen acres. Why cannot we do what has been done 200 miles south of us? Why cannot some of the canyons in our mountains be dammed up to hold back the spring rains, thereby forming beautiful lakes to be used for summer irrigation? In the winter our creeks run 'brim full, while in summer our land is parched and dry. Many of the creeks in the coast section of this county come from steep canyons in our mountains and flow through the valleys having from several hundred to several thousand acres that can be irrigated. You all know for what the Arroyo Grande Valley is so justly noted and the reason is an open secret—irrigation. In the summer time the Arroyo Grande creek does not flow to the sea, but flows to the farmers' crops, but how many more crops it could flow to if the flood water were retained in mountain reservoirs. Let us duplicate the Arroyo Grande Valley in a half dozen different places in this beautiful county of ours.'"

Household Arts

This year should be the most successful year that the Household Arts department of the California Polytechnic School has ever known, as it is the first year that the classes have begun their work in the well equipped, new Household Arts Building.

Although the number of girls in the senior Domestic Science class is one less this year than last; they are none the less active and interested.

The work opened this year with several lessons in the canning and preserving of fruit; also jelly making, pickling, etc. All fruits so preserved, to be used in the serving of meals in the winter term, and for regular class work. At present the girls are making one of each of the several kinds of frozen dainties—water ice, sherbet, frappe, etc. through the list. With these frozen desserts they are also making wafers and many small cakes and cookies, which generally accompany the dishes.

The class find that these are appreciated by the faculty and also by the students who are lucky enough to procure them; for although serving from the cooking room windows has been strictly forbidden, we find that sherbet has found its way to the rest room, upper halls, and even to the basement of the Domestic Science building, while wafers and cookies have traveled as far as the Administration Building.

The Junior class number fourteen this year. The girls of this class are anxious to learn the arts of cooking and Domestic Science, and are taking hold of their work in a creditable manner. So far they have studied the cereals, fruits, and vegetables. Cheese, eggs, fish and meats are taken up next in regular order.

These classes not only learn to cook and serve the various foods in the daintiest manner, but learn their chemical composition and food value.

The senior girls begin the study of dieties next week and we hope to report some of their school work in later editions of the Journal.

Later in the year the Senior class will take up Home Sanitation and management, and many other useful subjects.
Editorials

This is the first issue of the Journal by the new staff. We hope to make the paper as much of a success as it was last year. To do this we must have your assistance. This means the assistance of the entire student body.

School opened September 11, one hundred and seventeen registering on that day. This was an increase of about 15 per cent over the corresponding date of last year. The total enrollment on October tenth was one hundred and thirty-two. As there are some who come late we may well expect to see the enrollment reach one hundred and fifty before the close of the school year.

On September 23, the board of trustees met in the Household Arts building. Some important business was transacted. At noon the senior girls served luncheon in the dining room of present at the meeting were Mr. R. M. Shackelford, president of the board, Prof. E. J. Wickson of Berkeley, Mr. Warren M. John and Mr. Paul Gregg, of San Luis Obispo and the state architect, Mr. Geo. C. Sellon, of Sacramento.

On the same day that trustees met our school was honored by a visit from Mr. Benj. Ide Wheeler, President of the State University. At three o'clock in the afternoon all work was suspended and the students met in the assembly hall to listen to an address by President Wheeler and also a short address by Professor Wickson. Both addresses were well worth listening to and were well applauded.

Mr. H. B. Waters was called home at the opening of school on account of the serious illness of his father. He returned about September 23 and resumed his duties as instructor in Physics and Electricity.

Mr. C. W. Rubel was one of the stock judges at the State fair in Sacramento this fall. Soon after school opened he was called away to judge livestock at several county fairs in the San Joaquin valley.

The new machine shop is nearing completion. The machinery is being installed by the third year class in mechanics under the direction of Mr. Tavenner. The motor will also be installed and wired by students.

The forge shop has been enlarged this summer to accommodate five more quadruple forges. A couple of hand forges are also to be in the equipment. A motor has been installed to run the blower and is much more satisfactory than the old gasoline engine.

A team of Clydesdale colts has been added to the livestock on the farm this summer. Both horses are good examples of the draft type and will be used for class work in judging as well as for ranch work.

Prof. Don E. Smith, of the Univer-
University of California will give a series of lectures in the university extension course on "The Westward Movement in American History." The first lecture was given October 17 at Hersman Hall. This series of lectures will be upon very interesting and instructive subjects. Everyone who takes any interest whatever in American History should attend the full course as it will be well worth the time and money spent.

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A Welcome Gift

The Athletic Association is very happy over an announcement received from Mr. J. L. Anderson to the effect that he will be glad to present to our football team complete new suits.

The football team stood in need of new equipment in this line, and thus the gift is particularly acceptable at this time. Mr. Anderson says with reference to this gift that he appreciates the business which the state school has brought him, and he is glad to express his appreciation in a substantial way.

In addition Mr. Anderson is a believer in athletics, and he says he stands ready to encourage athletics sports in the school. Students and faculty deeply appreciate Mr. Anderson's generosity, and the deep interest he has always taken in the various activities of the Polytechnic school.

Mr. Anderson, we thank you.

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Exchanges

We are ready to publish our Journal again this month for the first time of a new school year.

It seems good to be back at our old post again and find that some of our old friends are at work also, and that they have not deserted our exchange list.

We find the Toein, one of the first journals to come to us, again this fall.

A friend in need is a friend indeed, and we certainly need all of our old friends, and as many new ones as we possibly can get acquainted with to help us in our work.

We are glad to find that The Purple and White is faithful, with its enjoyable and instructive editorials and many interesting stories.

The Trident has come to us indirectly and is worthy of comment; we hope soon to find you among our regular exchanges.

It seems good to see a Bright-red cover again and it is only a for taste of the Bright and witty verses and stories contained in the Sotoyoman.

But where, oh where are The Janus, The Quill, The Porcupine, The Wilmerding, and our other numerous journals. We hope to see you again very soon.

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Athletics

The first business meeting of the S. L. B. A. A. was held in the San Luis High School on Sept. 28, 1907. The following officers were elected with the exception of Treasurer, which was left vacant in case Arroyo Grande should enter the league:

President, H. B. Waters, Polytechnic.

Vice-Pres., Harold Stormier, Santa Maria.

Secretary, A. Gregg, San Luis Obispo.

Treasurer, Arroyo Grande.

It was provided that the boys Basket Ball Court should be the same size as the girls 60x30 ft. This was so that extra courts would not have to be made for both boys and girls.

They divided the year into certain seasons for certain athletics sports. The seasons are:

Boys and girls B. B. and Tennis, Oct. 2 to Dec. 2.

Base Ball, Dec. 3 to March 3.

Track, March 2 to May 2.
It was also provided, in connection with the track, that the gate receipts be divided as follows: The school giving meet take $15.00 for preparing track, $7.00 for advertising and cost of incidentals. The balance to be divided among schools competing according to their representation in the meet.

Foot Ball.
There has been a great deal of enthusiasm shown towards foot ball. For the past five weeks there have been enough men out nearly every night for two teams. After three quarters of an hours practice in plays, two teams are lined against each other and fifteen minutes fast play gone through. On the twenty sixth of October the faculty will play the school team and on the following Saturday Salinas will play a game, either in Salinas or in San Luis Obispo on the school grounds. Manager Roy Luchessa hopes to secure a couple of games with Santa Barbara High School.

Basket Ball.
The interest shown in Basket Ball is very great. The girls have been practicing for three or four weeks. They played a practice game with one of the grammar school teams on the 1th and had a very exciting game.

The boys court has only been in shape a short time, but they have shown fine spirit and have been practicing every day. A meeting of the players was held on October 6 and Smith was elected Captain and J. Methwin Manager.

Tennis.
There has not been much activity on the Tennis court; probably because most of the tennis players are either playing Basket Ball or Foot Ball.

DEBATE

The "Telegram" cup series of contests in debating last year resulted in a victory for the Polytechnic, decisions having been given in our favor over Santa Maria High School and San Luis Obispo High School. The cup, however, must be won in three season contests before it can become the permanent property of anyone of the schools. The contests for 1907—1908 have been arranged as follows: Santa Maria vs. San Luis Obispo, November 1, at Santa Maria; San Luis Obispo vs. Polytechnic, December 12, at San Luis Obispo; Santa Maria vs. Polytechnic, February 28, 1908, at San Luis Obispo.

Santa Maria and San Luis Obispo are now hard at work in preparation for the contest of November first. The question for discussion is, "Resolved, that municipalities should own and operate their public utilities."

Santa Maria will support the affirmatives and San Luis the negative.

At a meeting held Tuesday, October 8, Polytechnic School Debating Society re-organized for the season by electing officers as follows: E. Earl Campbell, president; La Rue C. Watson, vice-president; Irving Davis, secretary-treasurer.

In the coming contests Polytechnic will submit questions to San Luis, and Santa Maria will submit questions to Polytechnic.
List of Students Enrolled at the Polytechnic 1907-08


**First year**

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<thead>
<tr>
<th>Name</th>
<th>Course</th>
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<tr>
<td>Adams, John James</td>
<td>M., Pomona</td>
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</table>
Toy, Hugh Daniel (M.), Santa Maria.

Urben, Louise (D. S.), San Luis Obispo.

Utzerath, Anita (D. S.), Templeton.

Warden, Lew M. (M.), San Luis Obispo.

Weil, Gustave Menderson (A.), South Pasadena.

Willett, Edwin Charles (A.), San Juan Bautista.

Wyss, Selina E. (D. S.), Klan.

Yelland, Sherman A. (A.), Los Gatos.

Young, Charles Paul (M.), Pomona.

Second Year.

Ashida, Tsunejiro (A.), Japan.

Boone, Oliver H. (M.), Travers.

Brown, Elmer C. (M.), San Ardo.

Buck, George A. (M.), Santa Barbara.

Caranza, Alonzo R. (M.), San Maria.

Cox, Edmund Donald (M.), Watsonville.

Davis, Irving Franklin (A.), Mesa Grande.

Driver, Lester A. (A.), Antelope.

Evans, W. Ray (M.), San Simeon.

Fiedler, Eugene (M.), San Luis Obispo.

Girard, Annette G. (D. S.), Cayucos.

Gould, Rachael G. (D. S.), San Luis Obispo.

Griffith, Hazel May (D. S.), San Luis Obispo.

Hall, Harvey Louis (A.), Pasadena.

Hanby, L. Garret (M.), San Luis Obispo.

Hartley, Ernest D. (M.), Los Olivos.

Hieck, Leon F. (A.), Colusa.

Holloway, Charles Greed (M.), Santa Margarita.

Huyck, Vivian Lorraine (D. S.), San Luis Obispo.

Judd, Oswald B. (A.), Watsonville.

Keffer, George Walter (M.), San Luis Obispo.

Kmudsen, Peter (M.), Los Banos.

Kirk, Ruby (D. S.), Jolon.

Linn, Othello C. (A.), Arroyo Grande.

Lomax, Minnie (D. S.), San Luis Obispo.

Matasei, Flossie (D. S.), Cayucos.

McCrea, Grace Louise (D. S.), Zuln, Texas.

McDowell, James Lee (A.), Orange.

Methvin, Jesse (M.), Oxnard.

Mioissi, Alma E. (D. S.), San Luis Obispo.

Moore, Milton E. (M.), Goleta.

Murphy, Elmer H. (A.), Perkins.

Pearce, Thomas Edwin (A.), Volta.

Pezzoni, Attilio D. (A.), Guadalupe.

Ramage, Rachael E. (D. S.), San Luis Obispo.

Tilton, George A., Jr. (M.), Bakersfield.

Schulze, Hertha (D. S.), San Luis Obispo.

Utzerath, Fred Anthony (M.), Templeton.

Vasquez, Otilia (D. S.), San Luis Obispo.

Walbridge, Frank H. (M.), Montalvo.

Watson, Beulah (D. S.), San Luis Obispo.

Watson, La Rue Clifford (A.), San Luis Obispo.

Williams, Ben. J. (M.), Glennville.

Willoughby, James R. (A.), Los Angeles.

Wilson, Loring Jay (A.), Colusa.

Wood, Glenn Frederick (M.), San Luis Obispo.

Wood, Hazel E. (M.), San Luis Obispo.

Third Year.

Bachman, Ida May (D. S.), San Luis Obispo.

Campbell, Ellis Earl (A.), Orange.

Cheda, Mary F. (D. S.), San Luis Obispo.

Curtis, Ernest Walton (A.), San Luis Obispo.


Dolcini, Valente Frank (A.), Guadalupe.
Drougard, Valentine (M.), San Luis Obispo.
Gould, Ruth (D. S.), San Luis Obispo.
Kennedy, Avery Benoni (A.), Campbell.
Kondo, Eizo (A.), Japan.
Linn, Edward O. (M.), Arroyo Grande.
Luchessa, Roy A. (A.), San Luis Obispo.
Miossi, Ben E. (M.), San Luis Obispo.
Peirce, Earl Dean (A.), Mesa Grande.
Sebastian, Reuben Louis (M.), Los Angeles.
Stringfield, Clara L. (D. S.), San Luis Obispo.
Stormi, Livia Irene (D. S.), Cambria.
Tout, Grace L. (D. S.), Sultana.
Of the 57 counties in the state 18 are represented. Besides this two foreign countries and two other states. They are as follows:

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<th>County</th>
<th>Count</th>
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Social Happenings

With the opening of school comes first of these was the reception given to the Freshmen by Dr. Anderson at his home on Friday evening Sept. 13. A small program was given the earlier part of the evening. Dainty refreshments were served and all voted a very pleasant evening.

Saturday evening, September 14, the Seniors gave a reception to all the students in the Assembly Hall. Partners were procured for five minutes conversations on assigned topics which aided in getting acquainted. Later in the evening dancing was participated in during which punch was served.

On September 20, between the hours of eleven and twelve Miss White honored us with a musical recital in the Assembly Hall. She charmed her audience with her sweet songs.

The Presbyterian Christian Endeavor gave a reception for the Freshmen class at Hersman Hall on Friday evening, September 20. A fine musical program was rendered and dainty refreshments consisting of ice cream and cake were served. All had a very pleasant evening.

On the evening of October 5, a large number of the Freshmen class were initiated into the Athletic Association. The initiation took place in the Assembly Hall. All Freshies came prepared to ride the goat while the Juniors and Seniors came to hold them on. One could hear, "What are they going to do with us?" from all sides. The Freshies soon found out and they did their stunts exceedingly well. Lee McDowell became quite popular as doctor with his new discovery the "Raw oyster cure." After all were initiated the floor was cleared for dancing during which that famous Senior punch was served.

We wish to welcome the Freshmen into our Association and hope they will have as much pleasure from it in the future as we have had in the past.
L. Wilson (in chem. lab.) “Where can I get a solid glass tube?”

Instructor in Physics—“Where is the Reaumur thermometer used?”
V. D.—“In breweries.”

Oswald J. in English class—“Mr. Smith, who discovered the first steam—boat?”

Moonie P. Smelling of a pair of socks—“Yes I guess these are ready to wash.”

Wanted to know:
Why Judd’s bed goes out on the rocks Sunday mornings.
Why young Dixon goes over to the orchard so often.
Why Pease goes to sleep in Animal Husb. class so often?
Why Roberts sings: “Bring back my Bonnie to me?”
Why G. McMartin walked home from Estrada Gardens Thursday morning?
Why Ida B. stayed home from the Initiation? Ask Chas. Sheppard.
Why Livia dreamt of ghosts Friday night?

Why Hertha dreams of skunks?

Why Alma dreams of Angles?

Why Reilly didn’t ask Grace L. to dance?


Why Ida B. spends so much time studying Botany?

Why J. Adams (alias Dutch Curley) is a girl hater?

Ask Moonie how jackrabbits go for bed-fellows.

Coach in football practice—“Me, your greatest fault is your butting in.”

A. Anderson—“Who was elected president of the basket ball team?”

Animal Husb. Instructor—“What can you say about the feather of the Percheron.”
R. Smith—“I think it is rather weak.”

Ida B. (looking at the School picture)—“Oh where is Hanby?”

Miss Miossi, buying stockings, asked: “How much a yard?”

Instructor in History—“What is the golden rule?”
Moore—“Do unto others as they do unto you.”

Instructor in dairy class—“Hazel G. why do you use 17.6 ee of milk in the Babcock test?”
Hazel—“Because the bottle doesn’t hold any more.”
Ruth G. to a friend—“I am too old to make a team.”
Friend—"I wonder if Curtis or Dixon think so."

Instructor—"Frank, tell all you know about history."
Frank (alias Simon)—"Well Washington discovered America and Columbus fought in the Revolutionary war."

Resolved—That no boys are allowed to walk home with the basketball girls. Seconded—Vivian and Alma. Signed: Coach.

Mr. Heald in Geom. class—"Mr. Wilson why does angle H I D equal angle A B C?"
Miss Miossi—"I don’t know."

For authority on up-to-date queening, consult Vivian Huyck or Mr. Guha.

"Why is Ruth Gould like a goat, during recitation? Because she is always butting in."

Favorite songs of the students:
George H.—In My Merry Oldsmobile.
Grace T.—Good-Bye Eyes of Blue.
Chas Y.—We Won’t Come Home ’Till Morning.
Livia S.—Marching through Georgia.
Rachall R.—When Water Turns to Ice.
Hertha S.—I Can’t Tell Why I Love You.
Vivian H.—Down by the River Bank.
Hazel G.—My Only Mistake.
Annette G.—By the old Garden Gate.
Clara S.—Not Because Your Name is Curl.
Earl C.—By the Cayucos Sea.
Rachall G.—O! Waltz Me Around Again Sherman.
Anson J.—Dearie.
Avery K.—Bring Back my Bonnie to Me.
Ruth G.—Ernest, Ernest I’ve Just Been Thinking.
Ida B.—I Am Trying So Hard For to Get You.
Alma M.—How I Love to Roam Alone, or Why Don’t You Try.

Harvey (waiting anxiously in basement, to break up ice for the Senior cooking class)—"Gee I can hear the dictation of the recipes, guess I’ll take them down (sticks head in elevator shaft and proceeds to write.) Suddenly the following is given out: ‘The next will be kisses.’ (Laughter upstairs.) Harry has fainted.

When Edwin P. was advised not to bet on the football game he replied that "a man that bets was a gambler and a man that didn’t bet was no better."

Tilton at the suppertable "Duffy pass the potatoes."
Duffy—"Eat something close to you."
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