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**"A PATCH OF GREEN"**

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# CPR

*Is anyone on your crew trained to save a life?*

We are all becoming aware of the need for at least one member of our grounds crew to learn how to perform Cardiopulmonary Resuscitation (CPR). This is the artificial circulation and ventilation procedure that can save lives by restoring the heart and lungs to their function of pumping oxygen thru the body.

CPR training has been encouraged by the Golf Association of Michigan for several years and more recently we heard an excellent speaker at our June 6 meeting at the Lakelands C.C.

Mr. Carl Welser, an instructor with the Red Cross emphasized the importance of performing this important treatment.

In the March issue of "Fore Front" we read the following -

## **First Aid On The Golf Course**

What would you do if a golfer had a heart attack before your eyes? Would you recognize it as a heart attack? What would you do for heat prostration? Stroke? Poisoning? A serious laceration? A broken leg or arm?

How many of your employees would know what to do in any of these situations?

The employees and golfers at a course, while vulnerable to the normal range of afflictions requiring first aid, are even more likely to suffer from some of them than the average person. Strenuous work or recreation, exposure to a variety of chemicals and the use of potentially dangerous tools and machinery all lead to an increased likelihood of injuries occurring on your golf course.

Every superintendent should have a well-thought-out procedure to put into action when a medical emergency occurs on his course.

Post the telephone number of the

emergency care facility in your community near every telephone - a good place is in the front of the phone book. Many communities use "911" as an emergency number. Also, make sure you know where the emergency room in the nearest hospital is in the event that an ambulance is not available.

Strongly encourage your employees to participate in a first aid training course, and be the first to sign up. In many areas, the Red Cross will provide free instruction to your group, so the only cost is for materials. First aid classes are often offered through local adult education programs or from the Red Cross.

"CPR - cardiopulmonary resuscitation - is another important skill for you and your employees to acquire. CPR is a method used by either one or two people to restart breathing and heartbeat in an injured person. The CPR method is not difficult to learn, but it has great potential for saving lives. The American Heart Association estimates that 100,000 lives a year now lost could be saved by basic CPR followed by advanced life support. CPR training is often incorporated into first aid classes."

Equip and maintain a first aid kit. Consider keeping kits at many locations around the golf course. Don't forget to replenish supplies as needed.

Finally consider that the Red Cross estimates people who have had first aid training are much less likely to become injured themselves. ■

The timing of resuscitation rather than the credentials of those who perform it is crucial to its success. If you are not willing to administer CPR to a stricken person than you would be better off to call the undertaker instead of the ambulance.

Continued on next page

## The Canadians join us for our April Joint Meeting at Essex G & CC in Windsor

Twenty representatives from the Ontario Superintendent Association traveled by bus to the joint meeting with the Michigan & Border Cities GCSA on April 11, 1978 at the Essex G&C.C., Windsor, Ontario. Host Superintendent, Bill Fach welcomed some 100 guests to his Club for golf and dinner.

Guest speakers were: Dr. Louis Janke, Agronomist from London, Ontario and Dr. Paul Rieke, Michigan State Turf Specialist. They covered all aspects of soils, sands, and fertilization.

Paul (Pelino) Scenna, President of the Ontario Superintendents Association, doubled as tour director and bus driver.

### CPR Continued

Studies have shown that persons resuscitated by bystanders within minutes of the victims' collapse suffered death or serious complications less often than those who were forced to wait for the arrival of rescue squads.

Strongly encourage your employees to participate in a first aid training course, and be the first one to sign up. Call GAM today! They will schedule a class for you.



Dr. Paul Rieke speaks on sand specifications and quality at our Joint Meeting in April.

### A Smile, it costs nothing, but . . .

A smile costs nothing, but gives much. It enriches others who receive it, without making poorer those who give. It takes but a moment, but the memory of it sometimes lasts forever. None is so rich or mighty that he can get along without it, but none is so poor but that he can be made rich by it. A smile creates happiness in the home, fosters goodwill in business, and is the countersign of friendship. It brings rest to the weary, cheer to the discouraged, sunshine to the sad, and it is nature's best antidote for trouble. Yet it cannot be bought, begged, borrowed, or stolen, for it is something that is of no value to anyone until it is given away. Some people are too tired to give you a smile. Give them one of yours, as none needs a smile so much as he who has no more to give.

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## **THE STIMPMETERS ARE COMING! THE STIMPMETERS ARE COMING!**

**This simple device for measuring green speeds promises  
to become one of your course superintendent's most useful tools.  
Better still, it's likely to save your strokes!**

**By Charles Brome**

Not long ago - starting in mid-February, to be a little more precise - some 500 long, skinny packages were shipped from USGA Headquarters in Far Hills, New Jersey, to superintendents at golf courses all over the country. The contents of those packages (and of the hundreds more the USGA Green Section expects to dispatch during 1978) may eventually do as much to make America's golfers happy as anything since the invention of grass.

Each package contains a "Stimp-meter" - a device which will enable a superintendent not only to measure the speeds of his putting greens with a high degree of accuracy, but also to establish reliable numerical values for each speed.

Isn't that exciting?

You're right. At first glance, the news that your course superintendent can now write down numbers which represent green speeds ranks right up there with the discovery of a dramatic new system for coiling dental floss.

But give the idea a little while to sink in. And, while it's sinking, consider this observation by Alexander Radko, National Director of the Green Section. "When viewing the factors that affect play, in tournament competition or in a friendly knockabout," he says, "one element stands out above all the others - the variability of speeds between one green and the next, or even on different areas of the same green." Variations in green speeds, he declares, can do more to

negate a player's true skill than can ragged fairways or unkempt bunkers.

NOTE, PLEASE, that Radko is making no judgements about the relative virtues of fast vs. slow greens. "We have no desire at all to attempt to standardize green speeds," he says. "Whether the greens at a particular are slow, medium, or fast is up to the membership, not the USGA."

It is the *uniformity* of greens, whatever their pace may be, that is significant. In other words, if you stroke a level putt with sufficient force to roll it 12 feet on one green, the same stroke and the same force should also give you a 12-foot roll on each of the other greens. Reading a putt correctly and then stroking it the way you want to is challenge enough in itself - you can do without the added element of surprise that comes from inconsistent green speeds.

With this in mind, the information your course superintendent can determine with his Stimp-meter seems a bit more intriguing. Because it is distance, not direction, that presents the greater problem on most of your putts, right?

Most superintendents are well aware of this, and they do their best to establish uniform speeds on all their greens. Until the Stimp-meter came along, though, this goal was difficult, if not impossible to reach. A superintendent has any number of techniques for adjusting green speeds, to be sure. By applying or withholding

Continued on page 10



## AS THE SEASONS CHANGE, SO DOES THE GREENSAVER AERATOR.

The condition of the soil on any golf course or fine turf area changes throughout the year. And for proper turf management, you need to change the way you aerate.

Now you can, with the Cushman Greensaver aerator. Three interchangeable drums let you pick the type of tines that are right for the soil and the season, while you aerate up to ten times faster than walk-behind aerators.

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The standard  $\frac{1}{2}$ " coring drum provides maximum soil removal for normal aeration. In the fall, during slow-growth periods, you can use the  $\frac{3}{8}$ " coring drum to remove less soil.

And for the hot stress periods of summer, you can use the slicing drum.

With the coring drums you can collect the cores as you aerate, or leave them on the turf. Either way you get an accurate  $3\frac{1}{2}$ " x 4" pattern of holes up to  $2\frac{1}{2}$ " deep.

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Frame: Heavy steel welded construction. Method of attachment: 3 pull pins.

#### $\frac{3}{8}$ " TINE DRUM

Core Size:  $\frac{3}{8}$ " x  $\frac{3}{8}$ "

Pattern Width: 22 $\frac{3}{4}$ "

Pattern: 3 $\frac{1}{2}$ " x 4"

Drum: Heavy 12-gauge steel drum.

Trap door for core removal.

Tines: 112 tines per unit. Special heat treated formed steel.

Frame: Heavy steel welded construction. Method of attachment: 3 pull pins.

#### $\frac{1}{2}$ " TINE DRUM

Core Size:  $\frac{1}{2}$ " x  $\frac{3}{4}$ "

Pattern Width: 22 $\frac{3}{4}$ "

Pattern: 3 $\frac{1}{2}$ " x 4"

Drum: Heavy 12-gauge steel drum.

Trap door for core removal.

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## Stimpeters Cont.

water, for example, or by varying the height, method, or frequency of cut, he can achieve just about any speed he wants to on any given green. But - since until now he has had no reliable means of measuring that speed - his efforts to duplicate it on the remaining 17 greens have been largely guesswork.

The Stimpeter removes the guesswork: the superintendent can use it to measure the speed of one green and, by adjusting the remaining greens to the same measurement, achieve uniform speeds throughout the course. "The Stimpeter is your speedometer," Radko tells superintendents. "With it, you can set your green speed at any level your membership desires."

THE DEVICE is named for its originator, Edward S. Stimpson, who devised an instrument for measuring green speeds in the mid-1930s. The model now being distributed by the USGA, a slightly modified version of Stimpson's original, is an extruded aluminum bar 36 inches long and 1 1/4 inches wide. It has a V-shaped groove along its length and a notch near one end.

The principle is simplicity itself. The superintendent places a ball in the notch and rests the other end of the Stimpeter on the green. He raises the notched end slowly until the ball rolls out of the notch, down the groove,

and onto the green. Since the ball is always released from the notch at the same angle of elevation, it will reach the green with the same velocity each time. The distance it rolls will indicate the speed of the green.

The first shipments of Stimpeters are going to superintendents at clubs that subscribe to the Green Section's Turfgrass Advisory Service. Instruments will also be made available, at cost, to the remaining 4,000 USGA member clubs. After the device has been in widespread use for a time and the resulting data can be analyzed, Radko considers the possibilities for improved playing conditions to be "virtually endless."

One immediate result should be improved hole locations. A hole cut at or near the bottom of a slope, for example, might present a fair challenge when green speed is a slow 4'6", but be an unfair position on a green measuring a fast 8'6".

Clubs that subscribe to the USGA Turf Advisory Service will receive one Stimpeter as part of compensation for the annual fee. Other USGA member and non-member clubs and members of the Regional Association Liason Committee may purchase a Stimpeter for \$15. To order, write to the United States Golf Association, Golf House, Far Hills, N.J. 07931.

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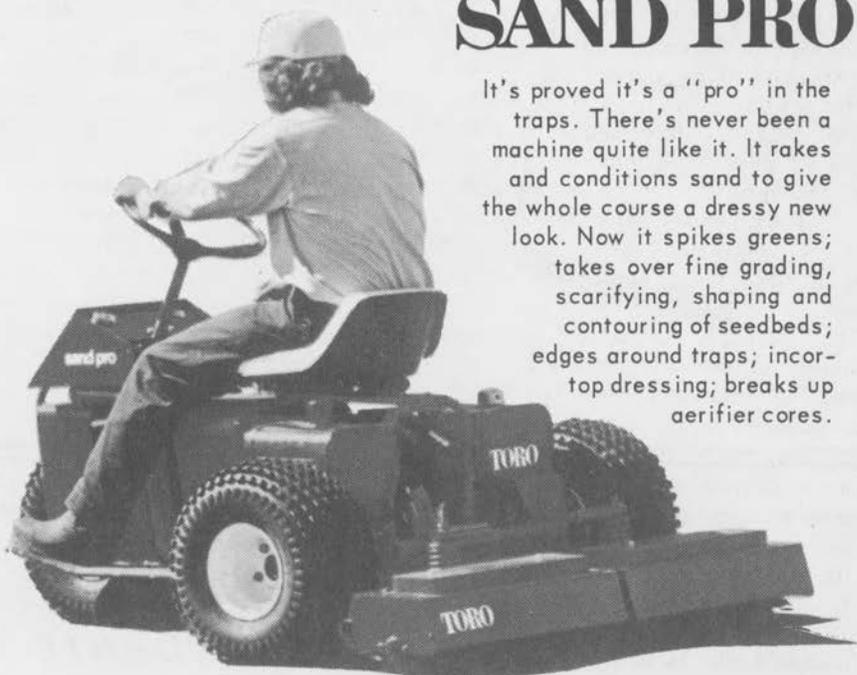
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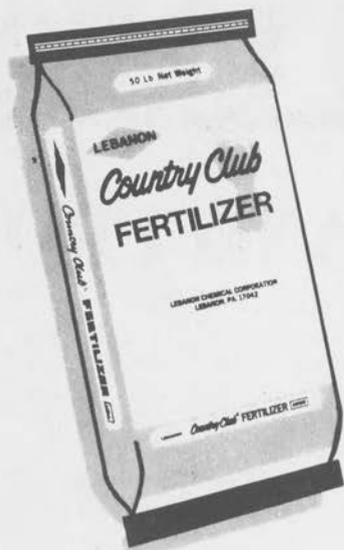
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NAME OF INTERESTED PERSON \_\_\_\_\_ DATE \_\_\_\_\_

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The program originally was designed to provide training in several areas of the industry. By 1971, however, it had become apparent that over 95% of the students in each class were preparing for golf course management careers. Since those interested in sod production, park management, etc. could be appropriately trained in the Landscape and Nursery curriculum

or in the four-year Turfgrass program, the emphasis has been entirely on preparation for a career as a golf course superintendent.

Numbers of applications have been as high as approximately 150, and about 50 to 55 are admitted to each fall class. Experience has shown that between 45 and 50 of these will actually enroll and by the end of the first term about 42 will still be enrolled. The goal is to have 40 to 42 in class after two terms. In recent years very few have been eliminated because of academic failure after the first term. Most who leave decide to withdraw before the term is completed.

The number of students who have completed the certificate are as follows:

Continued on next page



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## Turfgrass Management Cont.

1968	-	5
1969	-	16
1970	-	22
1971	-	21
1972	-	25
1973	-	30
1974	-	34
1975	-	41
1976	-	37
1977	-	29*
1978	-	46*
Total		316

\*Only 35 students registered Fall Term 1975 (of 45 accepted) and nine additional students were accepted Winter Term 1976. These graduated in 1978.

Approximately 80 to 85% of those completing the certificate enter the golf course profession. From two to four students in each class go on to four-year degrees. From five to ten percent are now going into lawn service positions.

About 25% of each class come from out of state. Of 53 accepted for Fall Term 1978, 20 are from other states. Eighteen of 39 Placement Trainees during the summer of 1978 are taking this training in other states.

A high proportion of graduates of the initial classes preferred to start as superintendent, and many had the ultimate goal of owning their own course. It is common for current students to prefer a "post-certificate" experience at a course with a higher

demand level than those of their previous experience before going on as assistant or superintendent.

As more of our graduates assume responsible positions, almost universally they provide preferred placement training experience for students and willingly accept them.

Job opportunities are excellent, and the number of inquiries increases each year.

There has been concern expressed that:

- 1) too many students are being trained
- 2) the exclusive training for golf careers works to the exclusion of those with other turf interests.

With over 11,000 golf courses in the U.S.A. and well over 500 in Michigan, there appears to be little danger, given the present annual output, that job opportunities will decrease. On the other hand, there is an increased interest in technically trained superintendents as knowledge spreads that they are available.

The two principle alternative career areas graduates enter are 1) lawn service and 2) equipment and supplies sales and service. The present curriculum, while not ideal preparation for these two fields, does not seem to penalize graduates who have entered them. For the past three or four years, golf course crew experience has been required for admis-

Continued on next page



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## Turfgrass Management Cont.

sion. This has contributed to greater interest and a communality among the students which has been very beneficial.

There has been some interest, although relatively little, in an Associate Degree. The opinions of our readers will be welcomed.

## Placement Training Considerations Michigan State University

### Equipment

1. Gain a working knowledge of each piece of equipment - know it's purpose.
2. Inventory the equipment.
3. Learn preventive maintenance procedures.
4. Know the present value and cost of important equipment.
5. What is the depreciation rate of equipment?
6. What type of equipment is lacking - or in excess?
7. State any equipment-related problems such as compaction, wear, scalping, etc.

### Drainage

1. Know the overall drainage system at your course.
2. Sketch an average drainage design on a particular hole.
3. Study patterns used to drain difficult areas.
4. What type of materials are used for tile?
5. Are French drains or slit trenches used?
6. Know the specifications for tile diameter as well as depth of tile.
7. Sketch a standard drainage pattern for a green.
8. What type of drainage is used for bunkers?
9. Where does the drainage H<sub>2</sub>O eventually end up?
10. Are roots a problem in clogging tile lines?
11. Know how to flush and rod a tile line.

Continued on next page

# Susco

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### Placement Considerations Cont.

12. Learn to find existing tile lines with the use of a map (blueprint) and a probe.

13. Make recommendations for improved drainage as needed.

#### Irrigation

1. What is your water source?

2. Is it supplemented by city water?

3. What is the cost/gal of city water?

4. How many pumps and/or pumping stations do you have?

5. What is the capacity of the pumps in gpm?

6. What amount of voltage is required to operate your pump?

7. Is there an auxiliary power source; i.e. generator?

8. What type of pipe is used - PVC, cast iron, Transite, etc.?

9. Know the diameters of the main lines and laterals.

10. What is the throw of a fairway head and a green head?

11. How many sprinklers may operate simultaneously?

12. What size nozzles are used?

13. What is the pH of the water?

14. Are chemicals applied through the irrigation system?

15. What types of valves, head, controllers, etc. are utilized?

16. How is the system drained for winter?

#### Personnel Practices

1. How are employees selected?

2. Is there a formal training program?

3. Is there a good deal of communication between employer and employee?

4. What forms of discipline are used?

5. How are wages and promotions handled?

6. What is the chain of command?

7. Is responsibility equal to authority?

8. Are there job descriptions for all employees? Continued on next page



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## Placement Considerations Cont.

9. Is the Superintendent a part of the "triumvirate system"?
10. Does the Superintendent report directly to a "Green Committee"? Chairman? Board of Directors?
11. Establish a file designating record-keeping methods employed by the Superintendent.
12. Are personnel practices efficient?

### Business Management

1. Learn the budget system.
2. Are there adequate inventories?
3. Who is responsible for purchasing?
4. What methods of financing are used?
5. Learn the payroll system.

### Plant Pathology

1. Know the diseases and their cycles which are prevalent in your area.
2. Know the fungicides, their rates and their effect on the pathogens.
3. Is the treatment curative or preventative?
4. Know your sprayer capacity, pressure and nozzle size.
5. What atmospheric conditions were present causing the introduction of the pathogen?
6. Is the fungicide a contact or a systemic?
7. Are safe measures used in the handling of pesticides?
8. What time of day are pesticides applied?
9. Is the wind a drift factor?
10. Following application, when does the next mowing and irrigation of turf occur?
11. Learn to calibrate sprayer.

### Soils

1. Know the soil texture and structure on the native soil and amended soils.
2. What is the level of moisture retention?
3. What is the pH?
4. What level of organic matter is present?

Continued on next page

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**Placement Considerations Cont.**

5. Is liming necessary?
6. What ammendments are incorporated into the soil?
7. Topdressing - when, what, why, how often?
8. Slicing - when, what, why, how often?
9. Vertical mowing - when, what, why, how often?
10. Aerating - when, what, why, how often?
11. Is compaction a problem?
12. Are percolation and infiltration rates adequate?
13. Establish a record of fertilizer applications.
14. What is the annual rate of N-P-K for greens, tees, fairways and rough.
15. Are micronutrients required?
16. Use soil tests to ascertain nutrient deficiencies.

**Turfgrasses and Their Uses**

1. Identify the different turfgrasses and weeds present.
2. What height of cut is maintained?
3. Is thatch a problem?
4. Which herbicides are used? when? what rate?
5. Know the vital signs - learn the signs of wilt and nutrient deficiencies.
6. Spot diseases before they spot your turf.
7. Learn methods of seeding and sodding.
8. What varieties of seed are used?

**Entomology**

1. Know the pest you are controlling - identification, life cycle, etc.
2. Know the effective control and rate.
3. Does the insect inhabit the soil or the leaf?
4. Should the insecticide be drenched in?
5. What is the residual effect of the chemical?

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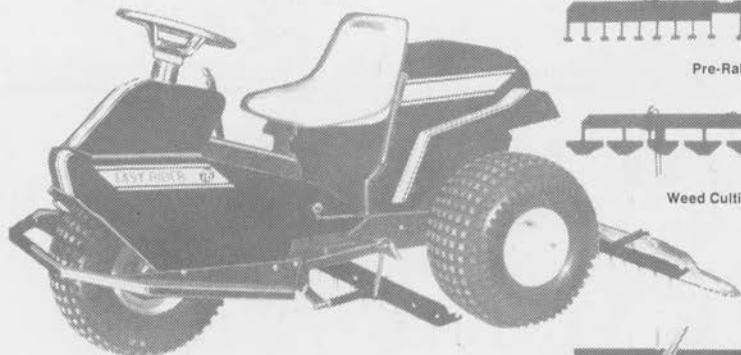
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Pre-Rake\*



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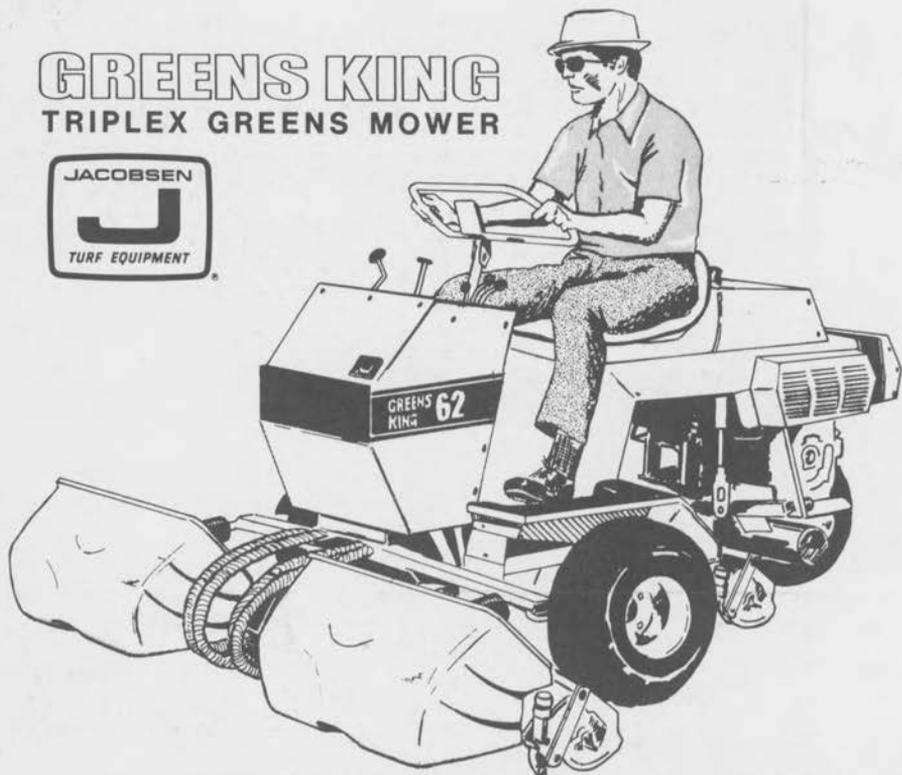
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