The black bear.
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Bequest of

WILLIAM McM. WOODWORTH.

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Mr. Bryant's ear may have delighted in Longfellow's hexameters, but we may add that it does not seem to have delighted in his own; for when he began his translation of Homer's "Iliad," he began it in hexameters, but before long he found them impracticable, and he was glad to recur to what we think infinitely better in English,—the iambic pentameter, or blank verse, as it is called. None the less, Mr. Bryant's hexameters, in our judgment, limp along as readily as those of anybody else—even Longfellow's, which he so much enjoyed. Let the reader take a specimen from the fifth book of the "Odyssey," the description of Ulysses coming to the grotto of Calypso—a passage, by the way, which Pope has rendered more charmingly than almost any other in the epic:

"Now, when he reached in his course that isle far off in the ocean,

North from the dark-blue swell of the waves he stept on the sea-beach;

Downward he went till he came to the broad-roofed grot where the goddess

Made her abode, the bright-haired nymph. In her dwelling he found her;

There on the hearth a huge fire glowed, and far through the island

Floated the fume of frankincense and cedar wood cloven and blazing.

Meanwhile sweetly her song was heard from the cave, as the shuttle

Ran through the threads from her diligent hand, and the long work lengthened;

All round the grotto a grove uprose, with its verdurous shadow,

Alders and poplars together, and summits of sweet-smelling cypress.

'Midst them the broad-winged birds of the air built nests in the branches,

Falcons and owls of the wood, and crows with far-sounding voices,

Haunting the shores of the deep for their food. On the rock of the cavern

Clambered a vine, in a rich, wild growth, and heavy with clusters.

Four clear streams from the cliffs poured out their glittering waters,

Near to each other, and wandered—meandering bither and thither;

Round them lay meadows where violets glowed, and the ivy o'er-mantled

Earth with its verdure. A god, who here on the isle had descended,

Well might wonder and gaze with delight on the beauty before him."

While speaking of Mr. Bryant, let us express our regret to learn that he has left no unpublished poem of any great length or merit behind him. It was generally inferred from the phrases "A Fragment" or "From an unpublished Poem," which frequently appear in his printed works, that he had reserved a magnum opus for posthumous publication; but such was not the case. Three times in his life he appears to have projected a great narrative-poem, but he was never successful in carrying out his intentions. Once, when he was still a young man, he conceived the plan of an Indian epic, the scene of which was to be laid in the old Pontoosuck forests, amidst which he was born, but he wrote only an introduction to it, in the manner of Scott's "Lay of the Last Minstrel" and "The Lady of the Lake." A little later, about 1823, while a practicing lawyer in Great Barrington, he began a romantic tale in verse, which was to be called "The Spectre Ship," and was founded on a story told by Cotton Mather, in his "Magnalia Christi Americana," of a ship that sailed out of New Haven Bay, with a large number of returning pilgrims on board, and was never heard of again, although the form of it was seen for many years afterward hovering about the coasts, particularly in stormy weather. Mr. Longfellow wrote some lines for "Graham's Magazine" on the same subject, beginning:

"In Mather's Magnalia Christi,

Of the old colonial time,

May be found in praise the legend

That is here set down in rhyme."

Mr. Bryant finished only about two hundred verses, and then threw them aside.

Writing to Mr. Dana, who was continually urging him to undertake a more elaborate production than any he had yet written, Mr. Bryant says, under date of Great Barrington, July 8, 1824:

"* * * You inquire whether I have written anything except what I have furnished to Parsons [of the "United States Literary Gazette"]; Nothing at all. I made an engagement with him with a view, in the first place, to earn something in addition to the emoluments of my profession, which, as you may suppose, are not very ample, and in the second place, to keep my hand in, for I was very near discontinuing entirely the writing of verses. As for setting myself about the great work you mention, I know you make the sug-

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gestion in great personal kindness towards myself, and I cannot sufficiently express my sense of that un- 
wearied good-will which has more than once called 
my attention to this subject. But I feel reluctant to 
undertake such a thing, for several reasons. In the 
first place, a project of that sort on my hands would be 
apt to make me abstracted, impatient of business, and 
forgetful of my professional engagements, and my 
literary experience has taught me that it is to my 
personal alone that I can look for the steady means of 
supplying the wants of the day. In the second place, 
I am lazy. In the third place, I am deterred by the 
difficulty of finding a proper subject. I began last 
winter to write a narrative poem, which I meant should 
be a little longer than any I had already composed; 
but finding that would turn out at last a poor story 
about a ‘Spectre Ship,’ and that the tradition on 
which I had founded it had already been made use of 
by Irving, I gave it up. I fancy that it is of some 
importance to the success of a work that the subject 
should be happily chosen. The only poems that have 
any currency at present are of a narrative kind— 
slight stories, in which love is a principal ingredient. 
Nobody writes epic, and nobody reads didactic, poems, 
and as for dramatic poems, they are out of the ques-
tion. In this uncertainty, what is to be done? It is a 
great misfortune to write what everybody calls frivo-
lus, and a still greater to write what nobody can read.”

As far as one is able to judge from the two or 
three hundred lines that remain of this 
poem, love was “the principal ingredient.” The 
story involved the fortunes of a young man who sailed 
in the ill-fated vessel in which he 
experienced all the disasters of shipwreck, 
leaving behind him an orphan girl, to whom he 
was betrothed, who experienced the still 
more terrible disaster of captivity among the 
Indians—a scheme, it must be confessed, 
admitting of a good deal of wild romance and of 
vivid description of both forest and 
sea. How the phantom element was to be 
worked in, is left to conjecture

Mr. Bryant says, in the letter just cited, 
that he was deterred from prosecuting his 
design by the fact that Irving had “already 
made use of the subject”: but we cannot 
recall any piece of Irving in which that was 
done. Irving wrote a tale called “The Spectre 
Bridegroom,” but that is of German 
origin, and has nothing in it resembling the 
legend which Mather reports. In his story of 
Dolph Heylinger, also, he refers to the Pilgrim 
superstition of a missing ship that re-appeared 
on the coasts, in bad weather, as a 
faith more or less prevalent in all the colo-
nies, but he makes no use of it further than 
to remark upon it in the course of his narra-
tive. Perhaps some of our readers can tell 
us more distinctly what it was in Irving that 
drove Mr. Bryant off the field.

A third one of his attempts related, as far as 
we can now judge, to a hermit who, having run 
through the varied experiences of life, and seen 
what there was to be seen of our continent and 
climate, from the sea-coast to the Mississippi, 
withdraws to the solitudes of the forests, 
where, in his hut, he tells to some adventur-
ous boys the story of his career. He was to 
do duty, we conjecture, as Wordsworth’s ped-

dler does in “The Excursion”—that is, he was to 
serve as the lay figure on which the poet was 
going to hang his fine descriptions of nature. 
Nothing more, however, came of this scheme 
than of the others, unless we are permitted to 
suppose that “The Fountain,” the “Evening 
Reverie,” “Noon,” and one or two more of 
his pieces in blank verse, were parts of this 
projected whole. It would have been very 
easy to connect these pieces together, by 
some little story of this kind; but we are not 
sure that the readers of poetry would have 
been the gainers. “The Excursion” is now 
not read as a whole, only in its episodes, and 
the narrative which is meant to give it unity only 
gives it length and heaviness.

THE BLACK BEAR.

The black bear (Ursus americanus) derives 
its name from its fur, which is a rich, warm, 
and extremely glossy jet black, except on the 
muzzle, where, beginning at the mouth, the 
hair is a fawn color, which deepens into the 
dark tan color of the face, and ends in 
rounded spots over each eye. These color-marks 
and its peculiarly convex facial outline are the 
distinguishing marks of the species. The tan color 
becomes, with age, a brownish gray. 
The largest black bear I ever saw weighed 
five hundred and twenty-three pounds, and 
measured six feet and four inches from the 
tip of the nose to the root of the tail. One of 
this species seems to possess the power of 
transforming himself at will into a variety of 
shapes. When stretched out at length he 
appears very long; when in good condition, 
short and stout; when upright, tall; and when 
asleep, he looks like a ball of glossy black 
fur. The black bear of to-day may be termed 
omnivorous, inasmuch as fish, flesh, fowl, 
vegetables, fruit, and insects are all eagerly 
devoured by him. He mates in October, and 
the period of gestation lasts one hundred and 
twenty days. Two to four cubs form a litter. 
The cubs are always jet black, and not ash 
color, as some of the older naturalists affirm. 
If, according to Flourens, the natural life of an 
animal be five times the period of its growth to 
maturity, I should think that the black bear’s 
limit was about twenty years. I knew of a
cub which increased in size until his fourth year, when he appeared to have arrived at maturity.

Many country people and some experienced hunters have seen, as they believe, another species of the black bear, which they name a ranger, or racer. He is described as being a longer, taller, and thinner animal than the black bear proper, extremely savage, and distinguished by a white star or crescent on his breast. Marvelous tales are related of his ruthless doings, and any act of more than ordinary ferocity and daring, such as the wanton destruction of a large number of sheep, in daylight, in sight of the farm-house, is always attributed to a ranger. It is also said of him that he never hibernates, but prowls about all winter, seeking what he may devour, and keeping the farmers constantly on the alert to protect their stock. I have never had sufficient proof to warrant belief in the existence of a ranger bear, but have occasionally met with specimens of the black bear answering in some points to the above description. For instance, I have seen several black bears with white crescents on their breasts. The truth probably is that at times, during mild winters, a stray black bear may be seen prowling about when, in accordance with all accepted ideas on the subject, he should be fast asleep. This probable fact, and the variation in size and form common to all animals, no doubt account for the popular belief in the existence of the ranger bear.

The time when the black bear selects the den in which his long winter nap is taken depends on the openness or severity of the season. In any season he is seldom met abroad after the first of December, and is not seen again until the first warm days of March. He does not seem particular as to the character of his den, provided it shields him from the inclemency of the weather. A retreat dug by his powerful claws under the roots of a windfall, a rocky cave on the hill-side, or a hollow log, if he can find one large enough to admit him, will serve for a winter home. When he is ready to hibernate he is in fine condition and his fur is at its best. It is at this season that the hunters redouble their efforts to capture him. When he comes out in the spring he is in a sorry condition, and is seldom molested unless he makes himself troublesome to farmers. Numerous, and curious beyond belief, have been the theories and explanations offered by naturalists to account for the suspension of the functions of nature during hibernation. An Indian whom I have found to be trustworthy has often called my attention to fir-trees which had been freshly stripped of their bark, to a distance of five or six feet from the ground, and has told me that it was the work of bears that were after the balsam, large quantities of which, according to the Indian, they eat every autumn before going into their dens. It was his theory that the balsam prevented bodily waste, and that when the bears came out in the spring they dug up and ate large quantities of a root which had the effect of restoring bodily functions that had been suspended during the period of hibernation. The den is sometimes revealed by a small opening over his place of concealment, where the snow has been melted by his breath. When efforts are made to dislodge him by making a fire of boughs and moss at the entrance to his den, he will attempt to trample the fire out, and often succeeds. He has, however, a natural dread of fire, and at the first signs of a forest-fire becomes greatly alarmed, and flies to the open clearings and road-ways. I once passed on horseback through a forest-fire which was burning on each side of the road, and most of the distance I was accompanied by a big black bear, which was following that avenue of escape.

It would seem improbable that the young of the black bear were liable to fall a prey to the fox and black cat, or fisher, yet such is the fact. This happens, of course, when the cubs are very young; and incapable of following their dam in her search for food. The black cat is the most successful cub-slayer. The fox, notwithstanding his proverbial sagacity, is often surprised by the return of the bear, and killed before he can escape from the den. An Indian hunter, who knew of two litters of cubs which he intended to capture as soon as they were old enough to be taken from their dam, was anticipated in one case by a black cat, and in the other by a fox. The latter paid the penalty of his adventure with his life, and was found in the den literally torn into shreds by the furious bear. The fox had killed one of the cubs, and the old bear, hoping to find a more secure place, had gone off with the two remaining cubs. The Indian overtook and slew her, and captured the cubs. Upon another occasion, he was not so fortunate. Stimulated by the large price offered by the officers of a garrison town for a pair of live cubs, he was indefatigable in his endeavors to find a den. One day, when accompanied by his little son, a boy of ten, he discovered unmistakable traces of a bear's den, near the top of a hill strewn with granite bowlders, and almost impassable from the number of fallen pines. One old pine had fallen uphill, and its upreared roots, with the soil clinging to them,
formed, with a very large rock, a triangular space into which the snow had drifted to a depth of ten or twelve feet. The Indian was about to pass on, when he detected the whining of bear-cubs. By making a détour, he reached a place on a level with the bottom of the bowlder, and there saw the tracks of an old bear, leading directly into the center of the space between the tree-root and the bowlder. The old bear, in her comings and goings, had tunnelled a passage under the snow-drift. Getting down on his hands and knees, the Indian, with his knife held between his teeth, crept, bear fashion, into the tunnel. After entering several feet, he found the usual bear device—a path branching off in two directions. While pondering what to do under such circumstances, a warning cry came from his little son, who was perched on the top of the bowlder, and the next instant the old bear rushed into the tunnel, and came into violent contact with the Indian, the shock causing the tunnel to cave in. The Indian, after dealing the bear one blow, lost his knife in the snow, and seized the bear with his hands; but she proved too strong for him, and was the first to struggle out of the drift, when, unfortunately, she met the little Indian boy, who had climbed down to his father’s rescue. He received a tremendous blow on the thigh from the bear’s paw as she passed, which crippled him for life. Four days afterward the Indian, determined to avenge the injury of his son by slaying the old bear, returned to the den, and discovered her lying dead upon the snow in front of the bowlder: his one blow had gone home, and the poor creature had crawled back to her young to die. The Indian dug away the snow, and found three cubs; one was dead, and the others died before he could reach his camp.

The principal strongholds of the black bear at the present day are the great forests of Maine and New Brunswick. My own observation and the reports of farmers lead me to think that Bruin is growing more carnivorous and discontented with a diet of herbs. Assuredly, he is growing bolder. He is also developing a propensity to destroy more than he can eat, and it is not improbable that his posterity may cease to be frugi-carnivorous. It is fortunate that an animal of the strength and ferocity which he displays when aroused, seldom attacks man. The formation of his powerful jaws and terrible canine teeth are well adapted to seize and hold his prey, and his molars are strong enough to crush the bones of an ox. His great strength, however, lies in his fore-arm and paws. His mode of attacking his prey is not to seize it with his teeth, but to strike terrific blows with his fore-paw.

Bruin’s weakness is for pork, and to obtain it he will run any risk. When the farmers, after suffering severe losses at his hands, become unusually alert, he retires to the depths of the forest and solaces himself with a young moose, caribou, or deer. He seldom or never attacks a full-grown moose, but traces of desperate encounters, in which the cow-moose has battled for her offspring, are frequently met with in the woods. The average value of a bear, including the bounty, is twenty dollars. This being the case, it may appear surprising that larger numbers are not taken. But the black bear combines extreme cunning with great sagacity, and every year he seems to be getting more on his guard, and suspicious of all devices intended for his capture. Large, full-grown animals are seldom killed. A black bear skin, taken at the proper season, is not excelled by any other kind of fur. If properly dressed, it possesses great softness and a gloss peculiar to itself. The fur is highly esteemed in Europe, where it is used for sleigh and carriage robes, and coat linings and trimmings. It is also in much request in England and other parts of Europe, for the shaks of certain infantry regiments and the housings and trappings of cavalry.

In the autumn of 1879, in the Red Rock district, Province of New Brunswick, eighteen bears were killed, only two of which had arrived at maturity; some of them were only yearlings. Only ten or twelve settlers and their families inhabit the district, and during that year seventy-three head of stock, including sheep, hogs, and horned cattle, were destroyed by bears. This district, situated on the extreme outskirts of civilization, is the bear’s paradise. The houses in most cases are built of logs, and the occupants are a stalwart, simple race, whose manners and customs carry you back to the frontier life of half a century ago. They are hospitable to a degree not often met with at the present day. The farms on which they live are clearings in the primeval forests. During a visit to this district, I had the luck, unexpectedly, to see Bruin at home in one of his wildest retreats. North of the settlement a range of rocky hills rises perpendicularly from the shores of a forest lake. The hills are strewed with gigantic bowlders, over which the hunter must pick his way with no little difficulty and danger. But by that expert climber, the black bear, such rugged ground is easily traversed. Our tramp had been a long one, and on our return my Indian guide proposed that we should cross the Red Rock hills, and thus save much time. Disregarding the old adage that “the longest way
round is the shortest way home," I was deluded into following the guide's advice. Great black clouds threatened an autumn storm. After much hard climbing, we reached a place where the whole hill-side seemed riven apart. On every side we were surrounded by precipices and deep gulches, partly filled with great boulders and sharp fragments of rocks. Although the dangers were not of Alpine magnitude, they might just as well have been, inasmuch as they were greater than we had any means of overcoming. In attempting to find a way out, we clambered along a ledge of rocks that afforded only insecure footing, and gradually diminished in width until all farther progress in that direction became impracticable. Retracing our steps, almost in despair of finding an outlet, we came to a fissure in the cliff just wide enough to admit one at a time. For a distance of twenty feet we were able to walk in an upright position; then the passage narrowed rapidly, and we had to crawl upon our hands and knees in almost perfect darkness. Presently we came to a place where the opening was so low that, if one attempted to straighten up, his back came in contact with a solid wall of rock; thence the passage took a sharp downward pitch, at the bottom of which we found a space sufficiently large to permit us to regain an upright position. The darkness was now complete, and, not daring to move for fear of getting a fall, I thought it prudent to return to the ledge, and imparted my intention to the guide. I received no reply, and called out in a louder voice. To my surprise, the answer came in a muffled tone from a locality apparently directly under me. By this time, my eyes had become accustomed to the gloom, and I detected a bluish, glimmering light on the rocky wall overhead, proceeding from a distant corner of the space in which I stood. Creeping to the source of the light, I found a wedge-like opening, decreasing...
and discovered that, by climbing over a jutting ledge of rock, we should be able to get upon a lower and much more extensive plateau of rock immediately under the den. We reached the platform safely, and, selecting a spot where we were sheltered and concealed by boulders, we called a halt, and lighted our pipes. A slight tap on the shoulder caused me to turn around, and, looking in the direction indicated by the guide, I saw a large bear seated on his haunches and looking intently at something. Farther away I saw another bear, crossing a chasm on an old pine-log that bridged it, and that afterward helped us out of our dilemma. Another tap on the shoulder, and another surprise in store for me. For up the hill-side, above the den, sat another bear with his head partly turned to one side, and looking in an inquiring manner at the two bears below him. By this time the one on the log had nearly crossed over, and the one sitting on his haunches growled frightfully. We were not fifty yards from him, and he might at any moment detect our presence; fortunately, we were well to leeward of him. We had been exploring a stream, connecting a string of lakes, to examine a very extensive and perfect beaver-dam, and, not expecting to hunt, had left our rifles at the camp.

In width as it descended. While debating with myself what to do next, the guide’s head appeared at the bottom of the opening. He called to me to come down. Entering in a recumbent position, feet foremost, I slipped down and discovered that the passage led into another chamber-like space, with the difference that it was in open daylight, the sky being visible beyond an overhanging ledge of rocks. The rocky platform was strewn with bones, and plentifully sprinkled with porcupine quills. The information of the guide was not needed to convince me that we were in the ante-chamber of a bear’s den, and that the room above was the den proper. It seems almost incredible that the black bear should permit such an offensive animal as the porcupine to occupy the same den with him, but there is good reason to believe that he sometimes does so. Although it was too early in the season for Bruin to seek permanent winter quarters, I did not feel at all certain that he might not pay occasional visits to his den, and urged the guide to get out of the place as soon as possible. As there was likely to be more than one entrance to the den, we looked about us
human beings, but if attacked and wounded, or brought to bay, the black bear is a foe to be dreaded. Their keen scent and acute hearing enable them to detect the approach of an enemy, and to keep out of his way.

Sometimes the black bear is hunted with dogs trained for the purpose. The dogs are not taught to seize the game, but to nip his heels, yelp round him, and retard his progress until the hunters come up and dispatch him with their rifles. Common yelping curs possessed of the requisite pluck are best adapted for the purpose. Large dogs with sufficient courage to seize a bear would have but a small chance with him, for he could disable them with one blow of his powerful paw. Another way of hunting is to track Bruin to his winter den, and either smoke or dig him out, when he may be dispatched by a blow on the head with the poll of an ax as he struggles out. Various kinds of traps, set-guns, and dead-falls are also employed against him. A very efficient means of capture is a steel trap, with double springs so powerful that a lever is necessary in setting it. The trap is placed in runs or pathways known to be frequented by bears, and concealed, care being taken not
to handle the trap. A stout chain, with a grapnel or a large block of wood attached, is fastened to the trap. Even with this an old bear often manages to escape altogether, his sagacity teaching him to return and liberate the grapnel or block whenever it catches upon anything and checks him. He dies eventually, of course, if unable to free himself from the trap, but in some cases he has been known to gnaw off a part of his paw and leave it in the trap. This mode of capture is open to the charge of cruelty, as the bear is usually caught by a paw, and sometimes by the snout, and the injury not being immediately fatal, the animal may die a lingering death of great agony. The set-gun, if properly arranged, kills the bear instantly. The gun is placed in a horizontal position, about on a level with a bear's height; one end of a cord is fastened to the trigger, and brought forward in such a way that when the bait is attached to the other end of the cord it hangs over the muzzle of the gun, and the least pull on the bait discharges the gun, which is protected from the weather by a screen of bark. The ordinary dead-fall consists of a number of stout poles driven in the ground in the form of a U. In front of the opening is placed a heavy log. The bait is suspended from a string within the inclosure, so that it will be necessary for the bear to place his fore legs over the log in order to reach it. The string has connection with a piece of wood which props up the dead-fall, consisting of a heavy log of beech or birch timber, weighted with other logs. When the bear pulls at the bait, the prop is drawn from under the heavy timber, which falls across his back. It sometimes happens that the hunter, to his discomfort, finds that his dead-fall has proved fatal to one of his own or his neighbors' cattle.

In the autumn, bear-hunters take advantage of Bruin's known partiality for raspberries, blackberries, and blueberries, and set traps and dead-falls in the approaches to the patches. He also frequents the beech-forests, and his expertness as a climber enables him to obtain the rich mast on which he grows corpulent. In the spring, when he first comes from his winter quarters, he feasts upon the ants and grubs he discovers by industrious digging, or by turning over decayed logs. Later in the season, when the herrings and alewives run up the streams to spawn, Bruin turns fisherman, and captures the fish by intercepting them as they pass over shallow places, and scooping them out with his paws. His taste for pork and molasses often encourages him to visit the camps of lumbermen.

If captured when very young and carefully trained, the black bear becomes tame, but I doubt if he ought to be trusted as a pet. My own efforts to tame young bears have not
always proved successful. It is unpleasant, on returning from a journey, to find your house surrounded by the neighbors armed with old muskets and pitchforks, the windows broken, the gardens trodden down, your family imprisoned in the dining-room, and to be told by your man-servant, who has prudently kept outside of the house, that the pet bear, in a state of ferocity, is in possession. Nevertheless, if one is willing to endure that sort of thing, a vast amount of amusement can be got out of a tame bear.

I really think that Bruin possesses the sense of humor; at all events his actions point that way, and there is no doubt that he is extremely cunning and observing. I once had an English friend visiting me, who played the flute. He was in the habit of marching up and down, while playing, near a tame bear I had at the time. The bear had a piece of stick about two feet long, which he tossed about for amusement. After a time, he came to handle the stick very much as my friend did his flute. This annoyed my sensitive friend, and in revenge he teased the bear with uncouth noises. Bruin sniffed and whined, and waited his opportunity for delivering a tremendous blow with his paw at his enemy, whose tall hat was knocked completely over his eyes. He escaped being scalped by dropping flat and rolling out of the reach of the bear. This bear spent much of his time in the tree to which he was chained, and when climbing usually got his chain twisted over and under the branches in a most intricate manner, but never failed to take out every turn as he descended. A friend who owned a tame bear told me that, for a long time, he could not account for the mysterious way in which the poultry disappeared. Observing, at different times, a good many feathers around Bruin's pole, he began to suspect that the bear was the culprit. Close watching confirmed his suspicions. When Bruin thought he was unobserved, he would seize any unfortunate hen or chicken within his reach and devour it; but if any one approached before he could complete the meal, he would sit upon his prey until the danger of discovery had passed. He was betrayed, at last, by the cackling of an old hen, that he had failed to silence.
THE DANISH SKATE-SAIL.

When the ice closes the Baltic ports, the pilots and sailors of the island of Amager, opposite Copenhagen, devote a part of their enforced leisure to ice-boating and skate-sailing. Little attention has been paid to the latter sport in this country, but in Canada a skate-sail has been in use,—to manage which, however, two skaters are necessary. It is a bungling contrivance, and lacks that yacht and clipper-like trimness which is always the pride of a sailor whether on the ice or on the water. This objection cannot be urged against the Danish rig, which, under sail, has a decidedly rakish aspect. Moreover, in handling it there is no need of consulting with another man, as with the Canadian sail, when you wish to "luff" or "square away" before the wind. With the Danish rig you are boat, sail, captain, and crew, all in one. It will lay within five points of the wind, and any evolution which an ice-boat or yacht can perform, the skate-sailor can also execute, in less time, in less space, and with equal grace. Although this sail can be managed by any boy large enough to skate, there is sport enough in using it to afford excitement for a strong man, whose skill will be taxed in keeping the sail "ship-shape" and in acquiring the greatest speed possible under given conditions. Some falls will naturally occur, but I have never heard of a serious accident to a skate-sailor. When he does fall, it is generally backward, which means against the wind, the sail thus helping to let him down easily. If he loses his balance while under great headway, owing to the high velocity, he will strike the ice at a more or less obtuse angle, sliding down easily instead of falling with star-making directness. The sensation when going at full speed is peculiar. At first, you feel that you have lost your hold on the earth, and your whole attention is drawn downward toward your skates; you wish they were heavier, so as to afford more ballast. But soon you gain confidence, a feeling of security takes possession of you, and if the ice is favorable and the road clear, you will attain what must be very similar to the sensation of flying. You seem scarcely to touch the ice, which appears streaked. Now you must keep your ankles stiff, but the rest of the body must be held easily poised and under ready control.

Simplicity of mechanism is the most noticeable feature of the Danish skate-sail, whose parts and dimensions are indicated by the diagram (Figure 1). For the material of the sail, use light cotton duck or heavy drilling. Fancy patterns of the cloth commonly used for awnings may be used with picturesque effect, such as may be seen in the sails of the small craft of Mediterranean ports. The sail is cut like a "square rigger's" lower sail and top-sail, the two being in one piece. The diagram gives the dimensions of a sail for a man who carries one hundred and forty pounds of ballast under his jack- et. But the sail can be made smaller or larger in proportion to the weight and strength of the wearer. The sail here indicated is seven feet wide at the bottom; it tapers slightly to a width of six feet two inches at the main or shoulder yard, and to a width of five feet ten inches at the top-sail-yard. The height of the sail above the shoulder-yard is two feet, and the depth below the shoulder-yard is three feet eight inches. The sail should have a hem an inch wide at the edges, and square laps at the lower corners, to which are fastened the ends of...