

Seeing

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When I was six or seven years old, growing up in Pittsburgh, I used to take a precious penny of my own and hide it for someone else to find. It was a curious compulsion; sadly, I've never been seized by it since. For some reason, I always "hid" the penny along the same stretch of sidewalk up the street. I would cradle it at the roots of a sycamore, say, or in a hole left by a chipped-off piece of sidewalk. Then I would take a piece of chalk, and, starting at either end of the block, draw huge arrows leading up to the penny from both directions. After I learned to write I labeled the arrows: SURPRISE AHEAD or MONEY THIS WAY. I was greatly excited, during all this arrow-drawing, at the thought of the first lucky passer-by who would receive in this way, regardless of merit, a free gift from the universe. But I never lurked about. I would go straight home and not give the matter another thought, until, some months later, I would be gripped again by the impulse to hide another penny.

It is still the first week in January, and I've got great plans been thinking about seeing. There are lots of things to wrapped gifts and free surprises. The world is fairly studded and strewn with pennies cast broadside from a generous hand. But--and this is the point--who gets excited by a mere penny? If you follow one arrow, if you crouch motionless on a bank to watch ripple thrill on the water and are rewarded by the sight of a muskrat paddling from its den, will you count that sight a chip of copper only, and go your rueful way? It is dire poverty indeed when a man is so malnourished and fatigued that he won't stoop to pick up a penny. But if you cultivate a healthy poverty so that finding a penny will literally make your day, then, since the world is in fact planted in pennies, you have lifetime of days. It is that simple. What you see is what you get.

I used to be able to see flying insects in the air. I'd look ahead and see, not the row of hemlocks across the road, but the air in front of it. My eyes would focus along that column of air, picking out flying insects. But I lost interest, I guess, for I dropped the habit. Now I can see birds. Probably some people can look at the grass at their feet and discover all the crawling creatures. I would like to know grasses and sedges--and care. Then my least journey into the would be a field trip, a series of happy recognitions. "What a rich book might be made about buds, including, perhaps, sprouts!" It would be nice to think so. I cherish mental images I have of three perfectly happy people. One collects stones. Another--an Englishman, say--watches clouds. The third lives on a coast and collects drops of seawater which he examines microscopically and mounts. But I don't see what the specialist sees, so I

cut myself off, not only from the total picture, but from the various forms of happiness.

Unfortunately, nature is very much a now-you-see-it, now-you-don't affair. A fish flashes, then dissolves in the water before my eyes like so much salt. Deer apparently ascend bodily into heaven; the brightest oriole fades into leaves. These disappearances stun me into stillness and concentration; they say of nature that it conceals with a grand nonchalance, and they say of vision that it is a deliberate gift, the revelation of a dancer who for my eyes only flings away her seven veils. For nature does reveal as well as conceal: now-you-don't-see-it, now-you-do. For a week last September migrating red-winged blackbirds were feeding heavily down by the creek at the back of the house. One day I went out to investigate the racket; I walked up to a tree, an Osage orange, and a hundred birds flew away. They simply materialized out of the tree. I saw a tree, then a whisk of color, then a tree again. I walked closer and another hundred blackbirds took flight. Not a branch, not a twig budged: the birds, apparently weightless as well as invisible. Or, it was as if the leaves of the Osage orange had been freed from a spell in the form of red winged blackbirds; they flew from the tree, caught my eye in the sky, and vanished. How could so many hide in a tree without my seeing them? The Osage orange, unruffled, looked just as it had looked from the house, when three hundred red-winged blackbirds cried from its crown. I looked downstream where they flew, and they were gone. Searching, I couldn't spot one. I wandered downstream to force them to play their hand, but they'd crossed the creek and scattered. One show to a customer. These appearances catch at my throat; they are the free gifts, the bright coppers at the roots of trees.

It's all a matter of keeping my eyes open. Nature is like one of those line drawings of a tree that are puzzles for children: Can you find hidden in the leaves a duck, a house, a boy, a bucket, a zebra, and a boot? Specialists can find the most incredibly well-hidden things. A book I read when I was young recommended an easy way to find caterpillars to rear: you simply find some fresh caterpillar droppings, look up, and there's your caterpillar. More an author advised me to set my mind at ease about those of cut stems on the ground in grassy fields. Field mice make they cut the grass down by degrees to reach the seeds at the It seems that when the grass is tightly packed, as in a field ripe grain, the blade won't topple at a single cut through the; instead, the cut stem simply drops vertically, held in the grain. The mouse severs the bottom again and again, the keeps dropping an inch at a time, and finally the head is low for the mouse to reach the seeds. Meanwhile, the mouse is littering the field with its little piles of cut stems into presumably, the author of the book is constantly stumbling.

If I can't see these minutiae, I still try to keep my eyes open. I'm always on the lookout for antlion traps in sandy soil, monarch pupae near milkweed, skipper larvae in locust leaves. These things are utterly common, and I've not seen one. I bang on

hollow trees near water, but so far no flying squirrels have appeared. In flat country I watch every sunset in hopes of seeing the green ray. ray is a seldom-seen streak of light that rises from the fountain at the moment of sunset; it throbs into the sky for two seconds and disappears. One more reason to keep my eyes open. A photography professor at the University of Florida just happened to see a bird die in midflight; it jerked, died, dropped, and smashed on the ground. I squint at the wind because Edward White: "I have always maintained that if you looked closely enough you could see the wind-the dim, hardly-made-out, fine debris fleeing high in the air." White was an excellent observer and devoted an entire chapter of *The Mountains* to the subject of seeing deer: "As soon as you can forget the naturally obvious and construct an artificial obvious, then you too will see deer."

But the artificial obvious is hard to see. My eyes account for less than one percent of the weight of my head; I'm bony and dense; I see what I expect. I once spent a full three minutes looking at a bullfrog that was so unexpectedly large I couldn't see it even though a dozen enthusiastic campers were shouting directions. Finally, I asked "what color am I looking for?" and a fellow said. "Green. When at last I picked out the frog, I saw what painters are up against: the thing wasn't green at all, but the color of wet hickory bark.

The lover can see, and the knowledgeable. I visited an aunt and uncle at a quarter-horse ranch in Cody, Wyoming. I couldn't do much of anything useful, but I could, I thought, draw. So, as we all sat around the kitchen table after supper, I produced a sheet of paper and drew a horse. "That's one lame horse," my aunt volunteered. The rest of the family joined in: "Only place to saddle that one is his neck.;" "looks like we better shoot the poor thing, on account of those terrible growths." Meekly, I slid the pencil and paper down the table. Everyone in that family, including my three young cousins, could draw a horse. Beautifully. When the paper came back it looked as though five shining, real quarter horses had been corralled by mistake with a papier-mâché moose; the real horses seemed to gaze at the monster with a steady, puzzled air. I stay away from horses now, but I can do a creditable goldfish. The point is that I just don't know what the lover knows; I just can't see the artificial obvious that those in the now construct. The herpetologist asks the native, "Are there snakes in that ravine?" "Noir." And the herpetologist comes with, yes sir, three bags full. Are there butterflies on that mountain? Are the blue violets in bloom, are there arrowheads here, or fossil shells in the shale?

Peeping through my keyhole I see within the range of only about thirty percent of the light that comes from the sun; the rest is infrared and some little ultraviolet, perfectly apparent to many animals, but invisible to me. A nightmare network of ganglia, charged and firing without my knowledge, cuts and splices what I do see, editing it for my brain. Donald E. Carr points out that impressions of one-celled animals are *not* edited for the brain: "This is philosophically interesting in a rather mournful way, since it means that only the simplest animals perceive the universe as it is."

A fog that won't burn away drifts and flows across my field of vision. When you see fog move against a backdrop of deep pines, you don't see the fog itself, but streaks of clearness floating across dark shreds. So I see only tatters of clearness through an obscurity. I can't distinguish the fog from the overcast sky; I can't be sure if the light is direct or reflected. Everywhere darkness and the presence of the unseen appalls. We estimate now that only one atom dances alone in every cubic meter of intergalactic space. I blink and squint. What planet or power yanks Halley's Comet out of orbit? We haven't seen that force yet; it's distance, density, and the pallor of reflected light. We rock, cradled in the swaddling band of darkness. Even the simpler darkness of night whispers suggestions to the mind. Last summer, in August, I stayed at the creek too late.

Where Tinker Creek flows under the sycamore log bridge to the tear-shaped island, it is slow and shallow, fringed thinly in cattail marsh. At this spot an astonishing bloom of life supports vast breeding populations of insects, fish, reptiles, birds, and mammals. On windless summer evenings, I stalk along the creek bank or straddle the sycamore log in absolute stillness, watching for muskrats. The night I stayed too late I was hunched on the log staring spellbound at spreading, reflected stains of lilac on the water. A cloud in the sky suddenly lighted as if turned on by a switch; its reflection just as suddenly materialized on the water upstream, flat and floating, so that I couldn't see the creek bottom, or life in the water, under the cloud. Downstream away from the cloud on the water, water turtles smooth as beans were gliding down with the current in a series of easy, weightless push-offs, as men bound on the moon. I didn't know whether to trace the progress of one turtle I was sure of, risking sticking my face in one of the bridge's spider webs made invisible by the gathering dark, or take a chance on seeing the carp, or scan the mud bank in hope of seeing a muskrat, or follow the last of the swallows who caught at my heart and trailed it after them like streamers as they appeared from directly below, under the long, flying upstream with their tails forked, so fast.

But shadows spread and deepened and stayed. After thousands of years we're still strangers to darkness, fearful aliens in an enemy camp with our arms crossed over our chests. I stirred. A land turtle on the bank, startled, hissed the air from its lungs and withdrew into its shell. An uneasy pink here, an unfathomable blue, there, gave great suggestion of lurking beings. Things were going on. I couldn't see whether that sere rustle I heard was a distant rattlesnake, slit-eyed, or a nearby sparrow kicking in the dry flood debris slung at the foot of a willow. Tremendous action roiled the water everywhere. I looked, big action, inexplicable. A tremor welled up beside a gaping muskrat burrow in the bank and I caught my breath, but no muskrat appeared. The ripples continued to fan upstream with a steady, powerful

thrust. Night was knitting over my face an eyeless mask, and I still sat transfixed. A distant airplane, a delta wing out of nightmare, made a gliding shadow on the creek's bottom that looked like a stingray cruising upstream. At once a black fin slit the pink cloud on the water, shearing it in two. The two halves merged together and seemed to dissolve before my eyes. Darkness pooled in the cleft of the creek and rose, as water collects in a well. Untamed, dreaming lights flickered over the sky. I saw hints of hulking underwater shadows, two pale splashes out of the water, and round ripples rolling close together from a blackened center.

At last I stared upstream where only the deepest violet remained of the cloud, a cloud so high its underbelly still glowed feeble color reflected from a hidden sky lighted in turn by a sun halfway to China. And out of that violet, a sudden enormous black body arced over the water. I saw only a cylindrical sleekness. Head and tail, if there was a head and tail, were both submerged in cloud. I saw only one ebony fling, a headlong dive to darkness; the waters closed, and the lights went out.

I walked home in a shivering daze, up hill and down. Later in bed, my arms flung wide at my sides to the whirling darkness. At this latitude I'm spinning 836 miles an hour round the earth's axis; I often fancy I feel my fall as a breakneck arc like the dive of dolphins, and the hollow rushing of wind raises hair on my neck and the side of my face. In orbit around the sun I'm moving 64,800 miles an hour. The solar system as a whole, like a merry-go-round unhinged, spins, bobs and blinks at the speed of 43,200 miles an hour along a course set east of Hercules. Someone has piped, and we are dancing a tarantella until the sweat pours. I open my eyes and I see dark, muscled forms curl out of water, with flapping gills and flattened eyes. I close my eyes and I see stars, deep stars giving stars, giving way to deeper stars bowing to deepest stars at the crown of an infinite cone.

"Still," wrote van Gogh in a letter, "a great deal of light falls on everything." If we are blinded by darkness, we are also blinded by light. When too much light falls on everything, a special terror results. Peter Freuchen describes the notorious kayak sickness to which Greenland Eskimos are prone. "The Greenland fjords are quiet weather, when there is not enough wind to blow out a match and the water is like a sheet of glass. The kayak hunter must sit in his boat without stirring a finger so as not to scare the shy seals away.... The sun, low in the sky sheds a glare into his eyes, and the landscape around moves into the realm of the unreal. The reflex from the mirror-like water hypnotizes him, he seems to be unable to move, and all of a sudden it is as if he were floating in a bottomless void, sinking, sinking, and sinking.... Horror-stricken, he tries to stir, to cry out, but he cannot, he is so completely paralyzed, he just falls and falls." Some hunters are especially cursed with this panic, and bring ruin and sometimes starvation to their families.

Sometimes here in Virginia at sunset low clouds on the southern or northern horizon are completely invisible in the lighted sky. I only know one is there because I can see its reflection in still water. The first time I discovered this mystery I looked from cloud to no cloud in bewilderment, checking my bearings over and over, thinking maybe the ark of the covenant was just passing by the south of Dead Man Mountain. Only much later did I read the explanation: polarized light from the sky is very much weakened by reflection, but the light in clouds isn't polarized. So invisible clouds pass among visible clouds, till all slide over the mountains: so a greater light extinguishes a lesser as though it didn't exist.

In the great meteor shower of August, the Perseid, I wail all day for the shooting stars I miss. They're out there showering down, committing hara-kiri in a flame of fatal attraction, hissing perhaps at last into the ocean. But at dawn what looks like a blue dome clamps down over me like a lid on a pot. The stars and planets could smash and I'd never know. Only a piece of ashen moon occasionally climbs up or down the inside of the dome, and our local star without surcease explodes on our heads. We have really only that one light, one source for all power and yet we must turn away from it by universal decree. Nobody the planet seems aware of this strange, powerful taboo that we walk about carefully averting our faces, this way and that lest our eyes be blasted forever.

Darkness appalls and light dazzles; the scrap of visible light that doesn't hurt my eyes hurts my brain. What I see sets me swaying. Size and distance and the sudden swelling of meanings confuse me, bowl me over. I straddle the sycamore log bridge over Tinker Creek in the summer. I look at the lighted snail tracks tunnel the mud in quavering curves. A crayfish jerks, but by the time I absorb what has happened, he's gone in a billowing smokescreen of silt. I look at the water: minnows and shiners. If I'm thinking minnows, a carp will fill my brain till I scream. I look at the water's surface: skaters, bubble down. Suddenly, my own face, reflected, start' snails have been tracking my face! Finally, with a shuddering wench of the will, I see clouds, cirrus cloud This looking business is risky.

Once I stood on a humped rock on nearby Purgatory Mountain watching through binoculars the great autumn hawk migration below, until I discovered that I was in danger of joining the hawks on a vertical migration of my own. I was used to binoculars, but not, apparently, to balancing on humped rocks while looking through them. I staggered. Everything advanced and receded by turns; the world was full of unexplained foreshortenings and depths. A distant huge tan object, a hawk the size of an elephant, turned out to be the browned bough of a nearby loblolly pine. I followed a sharp-shinned hawk against a featureless sky, rotating my head unawares as it flew, and when I lowered the glass a glimpse of my own looming shoulder sent me staggering. What prevents the men on Palomar from falling, voiceless and blinded, from their tiny, vaulted chairs?

I reel in confusion; I don't understand what I see. With the naked eye I can see two million light-years to the Andromeda galaxy. Often I slop some creek water in a jar and when I get home I dump it in a white china bowl. After the silt settles I return and see tracings of minute snails on the bottom, a planarian or two winding round the rim of water, roundworms shimmying frantically, and finally, when my eyes have adjusted to these dimensions, amoebae. At first the amoebae look like muscae volitantes, those curled moving spots you seem to see in your eyes when you stare at a distant wall. Then I see the amoebae as drops of water congealed, bluish, translucent, like chips of sky in the bowl. At length I choose one individual and give myself over to its idea of an evening. I see it dribble a grainy foot before it on its wet, unfathomable way. Do its unedited sense impressions include the fierce focus of my eyes? Shall I take it outside and show it Andromeda, and blow its little endoplasm? I stir the water with a finger, in case it's running out of oxygen. Maybe I should get a tropical aquarium with motorized bubblers and lights, and keep this one for a pet. Yes, it would tell its fissioned descendants, the universe is two feet by five, and if you listen closely you can hear the buzzing music of the spheres.

Oh, it's mysterious lamplit evenings, here in the galaxy, one after the other. It's one of those nights when I wander from window to window, looking for a sign. But I can't see. Terror and a beauty insoluble are a ribband of blue woven into the fringes of garments of things both great and small. No culture explains, no bivouac offers real haven or rest. But it could be that we are not seeing something. Galileo thought comets were an optical illusion. This is fertile ground: since we are certain that they're not, we can look at what our scientists have been saying with fresh hope. What if there are *really* gleaming, castellated cities hung upside-down over the desert sand? What limpid lakes and cool date palms have our caravans always passed untried? Until, one by one, by the blindest of leaps, we light on the road to these places, we must stumble in darkness and hunger. I turn from the window. I'm as blind as a bat, sensing only from every direction the echo of my own thin cries.

I chanced on a wonderful book by Marius von Senden, called *Space and Sight*. When Western surgeons discovered how to perform safe cataract operations, they ranged across Europe and America operating on dozens of men and women of all ages who had been blinded by cataracts since birth. Von Senden collected accounts of such cases; the histories are fascinating. Many doctors had tested their patients' sense perceptions and ideas of space both before and after the operations. The vast majority of patients, of both sexes and all ages, had, in von Senden's opinion, no idea of space whatsoever. Form, distance, and size were so many meaningless syllables. A patient "had no idea of depth, confusing it with roundness." Before the operation a doctor would give a blind patient a cube and a sphere; the patient would tongue it or feel with his hands, and name it correctly. After the operation the actor would show the same objects to the patient without letting him touch them; now he had no clue whatsoever what he was seeing. One patient called lemonade "square" because it pricked on his tongue as a square shape pricked on the touch of his hands.

Of another postoperative patient, the doctor writes, "I have found in her no notion of size, for example, not even within the narrow limits which she might have encompassed with the aid of touch. Thus when I asked her to show me how big her mother was, she did not stretch out her hands, but set her two index-fingers a few inches apart." Other doctors reported their patients' own statements to similar effect. "The room he was in . . . he knew to be but part of the house, yet he could not conceive that the whole house could look bigger"; "Those who are blind from birth . . . have no real conception of height or distance. A house that is a mile away is thought of as nearby, but requiring the taking of a lot of steps. . . . The elevator that whizzes him up and down gives no more sense of vertical distance than does the train of horizontal."

For the newly sighted, vision is pure sensation unencumbered by meaning: "The girl went through the experience that we all go through and forget, the moment we are born. She saw, but it did not mean anything but a lot of different kinds of brightness." Again, "I asked the patient what he could see; he answered that he saw an extensive field of light, in which everything appeared dull, confused, and in motion. He could not distinguish objects." Another patient saw "nothing but a confusion of forms and colours." When a newly sighted girl saw photographs and paintings, she asked, "Why do they put those dark marks all over them?" "Those aren't dark marks," her mother explained, "those are shadows. That is one of the ways the eye knows that things have shape. If it were not for shadows many things would look flat." "Well, that's how things do look," Joan answered. "Everything looks flat with dark patches." "

But it is the patients' concepts of space that are most revealing. One patient, according to his doctor, "practiced his vision in a strange fashion; thus he takes off one of his boots, throws it some way off in front of him, and then attempts to gauge the distance at which it lies; he takes a few steps towards the boot and tries to grasp it; on failing to reach it, he moves a step or two and gropes for the boot until he finally gets a hold of it." "But even at this stage, after three weeks' experience of seeing," von Senden goes on, "'space', as he conceives it, ends with visual space, i.e. with colour-patches that happen to bound his view. He does not yet have the notion that a larger object (a chair) can mask a smaller one (a dog), or that the latter can still be present even though it is not directly seen."

In general, the newly sighted see the world as a dazzle of color-patches. They are pleased by the sensation of color, and learn quickly to name the colors, but the rest of seeing is tormentingly difficult. Soon after his operation a patient "generally bumps into one of these colour-patches and observes them to be substantial, since they resist him as tactual objects do. In walking about it also strikes him—or can if he pays attention—that he is continually passing in between the colors he sees, that he can go past a visual object, that a part of it then steadily disappears from view; and that in spite of this, however he twists and turns—whether entering the room

from the door, for example, or returning back to it—he always has a visual space in front of him. Thus he gradually comes to realize that there is also a space behind him, which he does not see.”

The mental effort involved in these reasonings proves overwhelming for many patients. It oppresses them to realize, if they ever do at all, the tremendous size of the world, which they had previously conceived of as something touchingly manageable. It oppresses them to realize that they have been visible to people all along, perhaps unattractively so, without their knowledge or consent. A disheartening number of them refuse to use their new vision, continuing to go over subjects with their tongues, and lapsing into apathy and despair. “The child can see, but will not make use of his sight. Only when pressed can he with difficulty be brought to look at objects in his neighbourhood; but more than a foot away it is impossible to bestir him to the necessary effort” Of a twenty-one-year-old girl, the doctor relates, “Her unfortunate father, who had hoped so much from this operation, wrote that his daughter carefully shuts her eyes whenever she wishes to go about the house, especially when she comes to a staircase, and that she is never more happier or more at ease than when, by closing her eyelids, she relapses into her former state of total blindness.” A fifteen-year-old boy, who was also in love with a girl at the asylum for the blind, finally blurted out, “No, really, I can't stand any more, I want to be sent back to the asylum again. If things aren't altered I'll tear my eyes out.”

Some do learn to see, especially the young ones. But it changes their lives. One doctor comments on “the rapid and complete loss of that striking and wonderful serenity which is characteristic only of those who have never yet seen.” A blind man who learns to see is ashamed of his old habits. He dresses up, grooms himself, and tries to make a good impression. While he was blind he was indifferent to objects unless they were edible; now “a sifting of values sets in...his thoughts and wishes are mightily stirred and some few of the patients are thereby led into dissimulation, envy, theft, and fraud.

On the other hand, many newly sighted people speak well of the world, and teach us how dull is our own vision. To one patient, a human hand unrecognized, is “something bright and then holes.” “Shown a bunch of grapes, a boy calls out, “it is dark, blue, and shiny...It isn't smooth, it has bumps and hollows.” A little girl visits a garden. “She is greatly astonished and can scarcely be persuaded to answer, stands speechless in front of the tree, which she only names on taking hold of it, and then as ‘the tree with the lights on it.’” Some delight in their sight and give themselves over to the visual world. Of a patient just after his bandages were removed, her doctor writes, “The first things to attract her attention were her own hands; she looked at them very closely, moved them repeatedly to and fro, bent and stretched the fingers, and seemed greatly astonished at the sight.” One girl was eager to tell her blind friend that “men do not really look like trees at all,” and astounded to discover that her every visitor had an utterly different face. Finally, a twenty-two-old girl was dazzled by the world's brightness and kept her eyes shut for two weeks.

When at the end of that time she opened her eyes again, she did not recognize any objects, but, “the more she now directed her gaze upon everything about her, the more it could be seen how an expression of gratification and astonishment overspread her she repeatedly exclaimed: ‘Oh God! How beautiful!’”

I saw color-patches for weeks after I read this wonderful book. It was summer; the peaches were ripe in the valley orchards. When I woke in the morning, color-patches wrapped round my eyes, intricately, leaving not one unfilled spot. All day long I walked among shifting color-patches that parted before me like the Red Sea and closed again in silence, transfigured, wherever I looked back. Some patches swelled and loomed, while others vanished utterly, and dark marks flitted at random over the whole dazzling sweep. But I couldn't sustain the illusion of flatness. I'd been around for too long. Form is condemned to an eternal dance macabre with meaning: I couldn't unpeach the peaches. Nor can I remember ever having seen without understanding; the color-patches of infancy are lost. My brain then must have been smooth as any balloon. I'm told I reached for the moon; many babies do. But the color-patches of infancy swelled as meaning filled them; they arrayed themselves in solemn ranks down distance which unrolled and stretched before me like a plain. The moon rocketed away I live now in a world of shadows that shape and distance color, a world where space makes a kind of terrible sense. What gnosticism is this, and what physics? The fluttering patch I saw in my nursery window—silver and green and shape-shifting blue—is gone; a row of Lombardy poplars takes its place, mute, across the distant lawn. That humming oblong creature pale as light that stole along the walls of my room at night, stretching exhilaratingly around the corners, is gone, too, gone the night I ate of the bittersweet fruit, put two and two together and puckered forever my brain. Martin Buber tells this tale: “Rabbi Mendel once boasted to his teacher Rabbi Elimelekh that evenings he saw the angel who rolls away the light before the darkness, and mornings the angel who rolls away the darkness before the light. “Yes,” said Rabbi Elimelekh, ‘in my youth I saw that too. Later on you don't see these things any more.’”

Why didn't someone hand those newly sighted people paints and brushes from the start, when they still didn't know what anything was? Then maybe we all could see color-patches, too, the world unraveled from reason, Eden before Adam gave names. The scales would drop from my eyes; I'd see trees like men walking; I'd run down the road against all orders, hallooing and leaping.

Seeing of course is very much a matter of verbalization. Unless I call my attention to what passes before my eyes, I simply won't see it. It is, as Ruskin says, “not merely unnoticed, but in the full, clear sense of the word, unseen.” My eyes alone can't solve analogy tests using figures, the ones which show, with increasing elaborations, a big square, then a small square in a big square, then a big triangle, and expect me to find a small triangle within a big triangle. I have to say the words,

describe what I'm seeing. If Tinker Mountain erupted, I'd be likely to notice. But if I want to notice the lesser cataclysms of valley life, I have to maintain in my head a running description of the present. It's not that I'm observant; it's just that I talk too much. Otherwise, especially a strange place, I'll never know what's happening. Like a blind man at the ball game, I need a radio.

When I see this way I analyze and pry. I hurl over logs and roll away stones; I study the bank a square foot at a time, probing and tilting my head. Some days when a mist covers the mountains when the muskrats won't show and the microscope's mirror shatters, I want to climb up the blank blue dome as a man would storm the inside of a circus tent, wildly, dangling, and with a steel knife claw a rent in the top, peep, and, if I must, fall.

But there is another kind of seeing that involves a letting go. When I see this way I sway transfixed and emptied. The difference in the two ways of seeing is the difference between walking with and without a camera. When I walk with a camera I walk from shot to shot, reading the light on a calibrated meter. When I walk without a camera, my own shutter opens, and the moment's light prints on my own silver gut. When I see this second way I am above all an unscrupulous observer.

It was sunny one evening last summer at Tinker Creek; the sun was low in the sky, upstream. I was sitting on the sycamore log bridge with the sunset at my back, watching the shiners the size of minnows who were feeding over the muddy sand in skittery schools. Again and again, one fish, then another, turned for a split second across the current and flash! the sun shot out from its silver side. I couldn't watch for it. It was always just happening somewhere else, and it drew my vision just as it disappeared like a sudden dazzle of the thinnest blade, a sparkling over a dun and olive ground at chance intervals from every direction. Then I noticed white specks, some sort of pale petals, small, floating from under my feet on the creek's surface, very slow and steady. So I blurred my eyes and gazed towards the brim of my hat and saw a new world. I saw the pale white circles roll up, roll up, like the world's turning, mute and perfect, and I saw linear flashes, gleaming silver, like stars being born at random down a rolling scroll of time. Something broke and something opened. I filled up like a new wineskin. I breathed an air like light; I saw a light like water. I was the lip of a fountain the creek filled forever; I was ether, the leaf in the zephyr; I was flesh-flake, feather, bone.

When I see this way I see truly. As Thoreau says, I return to my senses. I am the man who watches the baseball game in silence in an empty stadium. I see the game purely; I'm abstracted and dazed. When it's all over and the white-suited players lope off the green field to their shadowed dugouts, I leap to my feet; I cheer and cheer.

But I can't go out and try to see this way. I'll fail, I'll go mad. All I can do is try to gag the commentator, to hush the noise of useless interior babble that keeps me from seeing just as surely as a newspaper dangled before my eyes. The effort is really a discipline requiring a lifetime of dedicated struggle; it marks the literature of saints and monks of every order East and West, under every rule and no rule, discaled and shod. The world's spiritual geniuses seem to discover universally that the mind's muddy river, this useless flow of trivia and trash, cannot be dammed, and that trying to dam it is a waste of effort that might lead to madness. Instead you must allow the muddy river to flow unheeded in the dim channels of consciousness; you raise your sights; you look along it, mildly, acknowledging its presence without interest and gazing beyond it into the realm of the real where subjects and objects act and rest purely, without utterance. "Launch into the deep," says Jacques Ellul, "and you shall see."

The secret of seeing is, then, the pearl of great price. If I thought he could teach me to find it and keep it forever I would stagger barefoot across a hundred deserts after any lunatic at all. But although the pearl may be found, it may not be sought. The literature of illumination reveals this above all: although it comes to those who wait for it, it is always, even to the most practiced and adept, a gift and a total surprise. I return from one walk knowing where the killdeer nests in the field by the creek and the hour the laurel blooms. I return from the same walk a day later scarcely knowing my own name. Litanies hum in my ears; my tongue flaps in my mouth Ailino, alleluia! I cannot cause light; the most I can do is try to put myself in the path of its beam. It is possible, in deep space, to sail on solar wind. Light, be it particle or wave has force: you rig a giant sail and go. The secret of seeing is to sail on solar wind. Hone and spread your spirit till you yourself are a sail, whetted, translucent, broadside to the merest puff.

When her doctor took her bandages off and led her into the garden, the girl who was no longer blind saw "the tree with the lights in it." It was for this tree I searched through the peach orchards of summer, in the forests of fall and down winter and spring for years. Then one day I was walking along Tinker Creek thinking of nothing at all and I saw the tree with the lights in it. I saw the backyard cedar where the mourning doves roost charged and transfigured, each cell buzzing with flame. I stood on the grass with the lights in it, grass that was wholly fire, utterly focused and utterly dreamed. It was less like seeing than like being for the first time seen, knocked breathless by a powerful glance. The flood of fire abated, but I'm still spending the power. Gradually the lights went out in the cedar, the colors died, the cells unflamed and disappeared. I was still ringing. I had been my whole life a bell, and never knew it until at that moment I was lifted and struck. I have since only very rarely seen the tree with the lights in it. The vision comes and goes, mostly goes, but I live for it, for the moment when the mountains open and a new light roars in spate through the crack, and the mountains slam.