patterns of resourcefulness: human(e) edges
collated by xin cheng

A loose-kit for small modifications of human(e) shared spaces, with stories & tactics to inspire your own making, gathered from walking through urban environments in the Asia-Pacific & Europe, 2006-2019

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At a tight corner, old vehicle reflectors added to existing street mirror. Kyoto, 2016

What if, we look at our surroundings, in the same way forest dwellers relate with their environment?

What crevices, niches and unknown pleasures might we discover?

What local know-how and peculiar stories would unfold?

Building is a special form of suggesting. (modified from Coaching for Results training guide, BBC for business, 1994)

Shared urban spaces are gardens: a constant process in the making, a ground for the interplay between its maker-carer-user-hackers.

I drift, walking slowly, reading material traces of activities and small stories of the human(e)*.

Along the blurring edges of public and private, sprout offerings of abundance to fellow beings: stuff with sensual pleasure, material poetry, props for new activities, signs of care, made by hand, from spare parts.

What could this be?

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To care about what one sees in the world leads to mobilizing one’s creative powers... the desire to make something. Richard Sennett

The tactics collated here have been used by professionals and non-specialists alike, in various situations. A knife could be used to prepare nourishing food and to harm lives. While they could serve any purpose, in this book, I have selected stories suggesting ways which our shared spaces could be a place for expressing the feeling of human(e) and diverse possibilities of encounter with fellow beings. They are lifeworlds where things flourish along flatness through piggybacking; where poetry with frugal materials dot along the sidewalks; where handmade seating are scattered for chatting and rest; where parking lots become living ecosystems...

The earth is a form of writing, a geography of which we had forgotten that we ourselves are the co-authors. Georges Perec, ‘co-’ added by Xin

The book title nods to A Pattern Language by C. Alexander et al. The drawings have been inspired by Andre Leroi-Gourhan’s Milleu et Techniques, Atelier Bow-Wow’s Made in Tokyo and Borrowed City: MotoElastico.

My drifts over many places told me that resourcefulness is a universal practice, like language, with its regional variations. Rather than bracketing the stories by geographic location, I have threaded them by their shared patterns, as a polyphyletic assemblage of tactics across cultural borders.

I hope these patterns could become a loose kit for making, playing and caring for your own surroundings.

Xin Cheng
November 2019, Hamburg

*Thank you Chris Berthelsen for this word!
Urban epiphytes

In forests, an epiphyte is a plant that perches on the branching point of another tree, nourished by the humus accumulating there, without harming the host, like someone standing on the shoulders of giants. In the urban environment, epiphytes grow out of existing infrastructures, extending the possible sensual pleasures and the range of activities for passers-by. They could be supported in many ways: hanging off, coiling around, wrinkling flatness...

Orchids held with loops from wire clothes hangers, twisting around a wall with holes, Kyoto, 2016

Similar pot holders perch on roadside residential fencing. Nagoya, 2007 (Found by Chris Berthelsen)

Beneath a street sign at an intersection, a piece of bamboo is added horizontally with coiling wire, which then enables a series of wire hooks to come down, cradling a former concrete sack, now nesting orchids.

street-sign orchid hammock
Phnom Penh, 2013
On a fence by the footpath, a flax basket gives away surplus feijoa fruit from the garden. Auckland, 2014

One can always set up a flat surface if there was not one around. Here, written by hand on a wooden pallets beside a green corridor: ‘Dear people of Münster: these trees will be cut down for a construction project, please help keep our city green and lively.’ Münster, 2013

Seedbombs are seeds encased in clay and soil, so they could germinate wherever they land.

On a mountain path, I was greeted by a wooden box with a lid of slate, hinged with wire, holding a visitors’ book. A rim of black plastic provided further rain-proofing. Dale i Sonnfjord, 2008

Along shared paths, vessels piggyback onto walls and fences, offering things and activities for fellow beings.

In the courtyard of a factory-cum-grassroots arts centre, a wine crate perches on the wall, offering ping-pong and cleaning tools. Geneva, 2014

nests for sharing
Horizontal surfaces offer possibilities like seating and perching. They often piggyback onto existing upright structures and recesses.

At Floating University Berlin, where scaffolding forms the structure of the architecture, a perching table beside the bar grows out of the scaffolding and the bar cabinet, perfect for distributing the float zine and flyers about upcoming activities. 2018

Outside a factory, a seat grows out of a post for power-lines. Auckland, 2014

At the Asian Art Complex, projectors and media players perch on the railings of the upstairs corridors. Gwangju, 2015

Similar additions have been observed at train stations in Hamburg, to allow temporary handrails on metal fences around construction works. 2018


The hand-washing station at Floating University Berlin slots onto the scaffolding structure. The shelf holds three plastic tubs, with different kinds of water for rinsing hands. 2018

With open structures like fences, scaffolding and metal grills, one could sandwich two pieces of wood around them, and attach many things to it.
modular brackets
In conjunction with strips of holes on the wall, these allow collapsible shelves of adjustable heights.

A bracket system made with No.8 wire bent into square C shapes, and plywood triangles. From the storage room at Cass Field Station. Cass, 2011

soft brackets
String, rope, wire enable hanging shelves.

A shrine in a small workshop: the incense sits on a plank of wood, attached to the metal gate with wires. Phnom Penh, 2014

A stone’s throw away from the above, in a small alley, a shelf perches similarly on a brick wall. Two holes on the wall allow supporting wooden rods. The tilt of the shelf is fine-tuned by inserting tile scraps. Phnom Penh, 2014

Bike chain loops form an elegant shelving system, from a man with a tiny apartment in Kobarid, who spends his summers on long bike trips. Old bike chains are reconnected into short loops, one screw set each onto the wall, then between two loops hang the plank. The segments of the chain hold the plank in place. Also note the wooden rods protruding out from between the books, allowing headphones and cords to hang. 2013
non-standard modularity

Modularity in Lego and Meccano is based on precise joinery and matching holes. There are also fuzzier kinds of modularity where loose-fitting is possible. These could be grown rather than prefabricated, where connections are gradually strengthened. Over time, variations build up: textures, layers, weathering and changing.

holey walls
Phnom Penh, 2014

The terracotta bricks in Cambodia come with four holes. On this wall, presumably hastily constructed to separate a former slum from the White Buildings, the exposed holes came in handy as a system for protruding horizontal sticks. The length of the bricks (around 20cm) meant that they can hold the sticks in place, without the sticks tipping over or falling out. Any stick roughly smaller than the holes could be used, which in turn becomes an anchor for other things: shelves, hooks adapted from plastic plumbing pipes, hanging plants, bags of sprouts, awning supported by C-shaped frames, rainwater collection.

A self-watering plant pot, made by cutting a bottle in half. The top part is inverted like a funnel into the bottom. String from the bottom part enables hanging on the wall anchors.

Rainwater from the adjacent roof is collected with a funnel structure and channelled into the hanging pots.
In this residential alley next to the rail tracks, is a wire fence with diamond-shaped grid. Rail sleepers have been planted, standing up at regular intervals along the fence. Metal strips were added to the uprights, in horizontal lines. Sticks of all sorts perch, supported by the horizontal bars and the grids of the fence. Sitting on these stick-shelves are potted plants, bonsai, a tray of defrosting meat, gardening tools, pans etc. So simple a construction, so versatile! A grid, fine-grained, not necessarily with straight lines, but allowing many variations.
Window into a store: a fold-out ledge announces the availability of home-made snacks. Kobe, 2016

Corridor into a room: beside the library of a university, in a wide corridor, are semi-circular flaps on the wall. They fold out to become waist-height tables, for drinks and perching conversations. Stockholm, 2014

In a takeaway shop where the space for manoeuvring is slim, this folding table was made. Good for cleaning times, too. Auckland, 2008

At the entrance to a residential courtyard are fold-out tables and benches. When no cars are parked there, it makes a good place to sit, chat, and watch the street go by.
Rain protection for a mobile sweet potato oven: a folding umbrella perches on a bent metal rod, helped by coiling wire. The oven is modified from an old oil drum. Yiwu, 2007

Avocado harvest tool: a broom stick was extended with bent wire clothes hangers, attached with coiling copper wires. Opotiki, 2013

A simple joinery where pliable materials wrap around something rigid, allowing piggybacking and piecemeal construction.

In a community garden, growing in-between the plants were former broom sticks, bent pieces of metal and wire, holding a butter knife and other tools. Note also the stacking hook. Geneva, 2014

When bottles tripple, another effect is achieved. See page 54.
Open shelters are welcoming places in a tropical place like Taipei, as sudden rain is frequent, and the temperature is pleasant for being outdoors all-year round. In this liangting in a neighbourly park, a concrete pole became an open living room, starting with a repaired metal shelf and a stack of disposable tea cups piggybacking with coiling plastic string. From walking by over a couple of weeks in 2015, I noticed many retired residents lounging here, reading newspapers, while the younger ones play in the outdoor gym. Four years later, I was pleasantly surprised to find not only the well-loved pot of tea on offer, but that the coiling rope had been strengthened, and now supporting cleaning rags, salvaged plastic bags, even some found keys.
Outside a general store in a street corner, coiling plastic packing straps provide anchoring for a sign, a bag of refreshing drink and more packing straps for future use. The smaller hooks are bent paper clips. Phnom Penh, 2014

Just behind the pole shown on the left, beside the shop is a downpipe. Large wire hooks hang off the plumbing clasp, for scooter helmets to rest. Perhaps this was the original inspiration?

Opposite the general store are kiosks selling drinks and snacks. Here, a tree with a coil of red packing strip anchors a large selection of air-puffed snacks. Phnom Penh, 2014

Coiling also provides anchors for hooks and other things to hang off.

Handmade s-hooks from aluminium rods hold cooking utensils and a chopping board. Vienna, 2013

The extra bend on top of these hooks secures them on the rail, especially for heavier things like pineapples. Phnom Penh, 2014

In the window display of a restaurant, small hooks on a metal rail system allows a changing display of paper notices, with holes punched into them. Milan, 2014

hooks & systems
W-hooks for paired hanging in a series down the length of a string, one after another. Small bags of peanuts, dried mushrooms, pepper and oil are displayed this way in a market. Phnom Penh, 2014

Outside a school-supplies store, hooks on hooks extend down from the awning support, offering game sets. Phnom Penh, 2014
A stylish lady is the proud carer of this fragrant gate, where holy basil, sawtooth coriander and chillies greet the passer-by. The pots, some of which are from plastic bottles and yoghurt tubs, hang from wire hooks: three strands threaded into holes in the pot, bound together on the top into a hook. Phnom Penh, 2014

The facade of this small house was a wall of blooming flower. Here, on its side, the underlying mechanism is revealed: metal grills and s-hooks made from wire clothes hangers. Kyoto, 2016

Elongated s-hooks hang off a hand-made rope net, for bananas. The fruit keeps better when hung up, similar to how they were on the tree. Phnom Penh, 2014
segmenting straight lines

To prevent hanging things like laundry from sliding along and bundling together, weaving systems are introduced to divide the line into segments.

An old TV cable and a plastic pipe are transformed into sturdy washing lines with a roll of half hitches, made with rope and plastic string. Seoul, 2015

Loops form, twisting along this wire line. They also become hooks for the baskets of curing meat. Phnom Penh, 2014

A ladder-like structure holds this assemblage of clothes and orchid in place: a long metal pole and an old electrical wire run in parallel, held together at regular intervals with short segments of electrical wire. Phnom Penh, 2014
Outside a small but amazing hardware store run by an old man, is this hanging display of assorted gloves. I suspect it was a revamp from a number of broken sock-drying racks, as evident in the chains with a variety of plastic pegs attached. The circular frame had been replaced by a sheet of flexible plastic, bolted to the bottom. Additional hooks were made from paper-clips and price tags. Holes were drilled along the bottom. Kobe, Japan, 2016.
Wire clothes hangers could hang many things other than clothes: signage, rubbish bags, pot lids, pot plants, footwear, bags of merchandise...

A hanger is a hook, upside down

Simply bending or twisting by hand could make a big difference. Or, when pliers and wire-cutters are at hand, the hangers can be treated as rigid wire.

The possibilities are infinite:

- Notching:
  - Multiply the 's' element, multiple things can hang along the same line.
- Hooking:
  - Bracketing off a vertical structure.
- Spiral & twisting for holding round things.

Various situations are transformed by adding hangers: borders become edges for sharing; fences become vertical gardens; flat surfaces become articulated steps. A rail, a ledge, a string across two beams—or an alleyway, a vertical grid, some holes, a screw... Almost anything could become a foothold for a hanger to perch on. See also pages 4, 5, 26.
By an entrance door, hook-series screwed into the side of a cabinet, for umbrellas. Seoul, 2015

From the junk shop ‘Odds’n’Ends’, these multiple s-hooks held anything from framed pictures to tea cups. The owner deftly made one for me in less than a minute. Dunedin, 2016

At a street-corner store, wire coat hangers swing from the ribs of the sun-umbrella. The notches allow bags of disposable raincoats to evenly spaced, not slide around in the breeze. Phnom Penh, 2013

Wire clothes hangers

While the maker of this could not be found to reveal its purpose, Vladimir Arkhipov’s book, ‘Home-Made: Contemporary Russian Folk Artifacts’ told a story that similar constructions are excellent for drying soaked boots, by hanging them upside-down. Taichung, 2013

A hanging plant pot: two wire hangers cut open and hooked onto the edges of the plastic planter, where small holes had been drilled. Tokyo, 2014

Resting on top of a mobile kitchen was a whorl for hoisting giant bags of popcorn. Three coat hangers were de-constructed and bound together with thin wire. Phnom Penh, 2014

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At dusk and nighttime, when the tropical heat retreats, people come out to the promenades and riverside: to stroll, jog, play games, and eat. Many nomadic traders add to the range of sensual enjoyment. Here, puffs of sweet-smelling colour hang on intricate whorls, made of wire in radiating lines and circles. They move on scooters, or as mobile trees on wheelee chair bases.
Pores and small bits allow the attachment of many things in tiny spaces.

Outside a second-hand bookshop, elastic cords secure books to tables, through slits. Geneva, 2014

Outside a boutique store for children, a Pinocchio figure holds the season catalogue on his shield, attached with a system of elastic string through holes, anchored with paper-clips and small wooden bits on the back of the shield. St Julien, 2014

Hanging plant from a balcony. Tokyo, 2014

Macramé nets for the papaya, from plastic string. Phnom Penh, 2014

A rock as ground anchor for a sun umbrella in a market, tied up with plastic packing straps from fruit boxes. Phnom Penh, 2014
Coils of plastic packing strips improve another recycling collector’s pushcart, this time in Hong Kong. Intertwining and coiling makes even a fragile material strong. 2014

Netting over a small vegetable patch woven from metal rods, electrical wire and plastic string. The uprights were wooden curtain dowels. Seoul, 2015

A bentwood chair became more comfortable with a net of yellow string on the back support and a small cushion secured with pink fabric strips. Phnom Penh, 2014

Obsolete cable-TV cables became sturdy netting for this recycling collector’s cart in Seoul, 2015
A patch beside the Dammtor train station, next to a path to the Hamburg Congress Center. I first came across it in December 2016 and three years later, the garden persists despite the demolition and re-construction next to it. It grew and decomposed over the seasons, both the plants and the human-made construction. There were kale trees in the winter, chives coming out in the spring, and climbing beans in the summer. In winter some of the perennials were protected from frost with a cover of supermarket bags. The raven sculptures add a touch of whimsy. The fence is woven out of used grills, broom handles, tied together with the red and white safety strips, often placed around fallen trees during the stormy season by the officials and forgotten once the logs had been removed. The plastic strips do not last long, but they get replaced regularly. Their form remind me of grapevines twining around wire forms.

Ecology, gardening, textiles, architecture could be enmeshed with each other.

Dammtor garden
Hamburg, 2016-2019

I stumbled across this while following an untrodden path which I thought lead to the top of the Kobe Mountain. Being close to the city, and dotted with waterfalls and reservoirs, the area is a popular spot for day walks and picnics, even with a cable car to the top. I first noticed the silver tarpaulin cover, then this circular fence, the opening reveals a patch of potatoes. Remarkably, the fence is densely woven out of braided fabric strips and sticks from the surrounding trees. So intricately constructed, its fine craftsmanship brought to my mind the Scandinavian rag rugs, the Japanese boro textiles, and the slippers made out of old kimono cloths. How much patient handiwork gave birth to this, while the potatoes quietly grew beside it?

Peering into the enclosure, one could see that the fence leans inward at one point, and with the draped tarpaulin, creates a shelter for vessels of water and other materials, possibly makes a cosy nook for sleeping too.

mountain potato shelter
Kobe, 2016
Twisting offers a simpler way of securing a coiled joint than tying. It makes a tight joint, even on a slippery material like bamboo. Depending on the pliable material, it could be done by hand, or assisted with sticks. While similar to zip-ties in result, this offers much more versatile applications.

Bamboo poles tied together with freshly-sliced strips of green bamboo (skillfully done with machete). The drying out of the strips tighten the joint over time. From a kitchen shed near Pai, 2015

In a carpark-garden shed, old ladders and strips of wood are joined together with salvaged wire. A stick was used to tighten, leaving two loops in the wire. Tainan, 2015

Construction scaffolding made with rope wrapped around poles. A thin stick of bamboo assists the twisting, which is then secured to the poles with thin wire. Everything could be disassembled and reused. Phnom Penh, 2014

Same technique used in metropolitan Hong Kong for scaffolding, where plastic packing strap substituted the fresh bamboo strips. 2014
In a market, a well-loved general store on wheels, has been growing over the years. Short and long sticks created the structural frames, joined with coiling plastic rope. Hooks and elastic cords from bike inner tubes dangle down and ready for further coiling. Cans, bottles and other container made from packaging tether on, allowing other utensils to piggyback. Everything for your daily needs, from combs to envelopes to fly swatters to raincoats. Interweaving between merchandise are handwritten notes, mementos, stories. Almost everything is added with coiling. Infinitesimal additions. What appeared like chaos, actually has its own order.
In a carpark for the surrounding residents, grows a shed-ecosystem with old ladders, treasured scraps, living plants and other creatures. During my repeated visits, I met their human companion, who told me that the ladders were discards from his workplace, for climbing telephone poles. He liked to collect wood for their fragrance, and even gave me a small bottle of a special kind, made into delicate shavings.

Another morning, the whole family was engaged in a careful excavation of the piles, since the neighbours worried they were fostering mosquitos. Under rotting wooden boards, we uncovered eggs of geckos, which hunt mosquitos. I was gifted some.

The whole structure was assembled without nails or screws, only through a twisting of wire (of various thickness, including telephone wire), which joined short pieces of wood sticks together, bit by bit, mimicking the growth of plants. Here, string, wire, roots, branches, plants alive and regenerating were entangled together in a porous co-existence.

In Europe, I have seen ‘insect hotels’ in front of houses, as a response to the alarming dwindle of insect populations. People told me they become hotspots for insect-hunting birds, or wasps, which are already over-abundant. Here is an approach closer to permaculture, where the needs of human and non-human beings cared for simultaneously, in multiple ways. So many parking lots, so many possibilities...
In a construction site, this tactic is used to hold the wooden mould for a concrete pole. Phnom Penh, 2014

Spanish windlass

By twisting two strands of rope with a stick, it is possible to create a tension system. Commonly seen in the wooden bucksaw, this may be applied in many other situations.

Extending the rope and string, the twists could hold drying laundry, without pegs. By the footpath off a residential house, a long stick was made by joining two broom sticks through coiling around, anchored into a hole on the wall. Alternatively, a small tin can be attached to the wall, as seen in the next neighbourhood. Mexico City, 2017
At a fish stall in a street market, three bottles of water hang above a lampshade, made from a plastic tub. To stop the lamp swaying in the wind and as a chandelier?

Taipei, 2015

Pulleys were attached to the frame of the door. One end of the string is fixed to the sliding door, while a plastic bottle hangs on the other end, with just enough water to balance the weight of the door. The door closes smoothly after anyone walks through the restaurant.

Chuncheon, 2015

self-closing door

A large plastic vessel is cut and filled with sand. Holes in the bottom allow drainage. By the driveway of a motel.

Rotorua, 2009

outdoor ash tray

This makes clever use of the contours of a soy-milk bottle with a handle, where the holes become compartments for holding and carrying electrical tools. Found in a parking lot.

Tainan, 2015

carrier tool-kit

An open bottle is buried in the ground, which can be filled with water. Another 20L bottle with the bottom cut out is placed on top. The slow evaporation of the water below allows even irrigation of the seedlings under the bell jar. Also stops snails and slugs.

Found in a community garden.

Mexico City, 2017

mini greenhouse

A bottle is cut in half. The top part is inverted like a funnel into the bottom. String is attached to the bottom part to enable hanging on the holey wall (page 12).

Phnom Penh, 2014

self-watering hanging pot

In a small street, three bottles stack on top of each other, rocket-like, telling drivers there are delicate plants below.

Kyoto, 2016
totem bottles

A bottle is cut in half. The top part is inverted like a funnel into the bottom. String is attached to the bottom part to enable hanging on the holey wall (page 12).

Phnom Penh, 2014

self-watering hanging pot

A large bottle becomes the perfect connection between the gutter of a car port and a down pipe. An extra spout is added in case of excess water, for the pot of lily growing next to it. Holes were cut and the pipes joined with silicon.

Tokyo, 2014

rainwater redirection

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In a small street, three bottles stack on top of each other, rocket-like, telling drivers there are delicate plants below.
Yellow, green, red, silver bottles, formerly containing machine oils, now full of air, hug around a pole at the entrance of a car-repair workshop. Mexico City, 2017

Bottles of water often cuddle around poles and corners to avoid driving mishaps in this neighbourhood. Note the intricate weaving pattern made with ropes around the bottle caps. Tokyo, 2014

On a sloping footpath by a driveway, rubber strips from tyres have been screwed around the gully, to prevent slipping. Seoul, 2013

I came across Chris Berthelsen’s research project, ‘Fixes: the non-intentional landscape of Tokyo’, through an image search for ‘Tokyo tyre park’. There it was, a blue tyre jutting out of the low concrete wall of a driveway, making the entrance more visible and distinguished from its grey surroundings. I have since come across similar aids for driving in corners around Kyoto: multiple mirrors on a pole, CDs and reflector eyes on rocks.

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‘The process of arriving in a house, and leaving it, is fundamental to our daily lives; and very often it involves a car. But the place where cars connect to house, far from being important and beautiful, is often off to one side and neglected.’

In A Pattern Language, first published in 1977, Alexander et al. suggested the following on car connections for private houses:

‘Make the parking place for the car into an actual room which makes a positive and graceful place where the car stands, not just a gap in the terrain. Make it a positive space—a space which supports the experience of coming and going.... It may be achieved with columns, low walls, the edge of the house, plants, a trellised walk, a place to sit. A proper car connection is a place where people can walk together, lean, say goodbye.’

27 years later, parking places have grown. Rebecca Solnit realised, in a farcical comparison of the L. A. Getty Museum’s car-park to the hell and heaven in Dante’s Divine Comedy:

‘The world seems to be made more and more of stuff that we are not supposed to look at, a banal infrastructure that supports the illusion of automo-
tive independence.... At least, where she was:’ ‘Los Angeles consists mostly of these drably utilitarian spaces, in part because cars demand them, and it is a city built to accommodate cars.’ (‘Check out the parking lot’, in London Review of Books, 2004)

I have not been to L.A., but in my wanderings around Asia, I have found small touches which showed the human(e), from the caretakers of these ‘banal infrastructures’.
I was initially intrigued by the road cone extensions, with colourful stripes resembling sculptures. (Recently their sisters were found in Hamburg, in a driveway frequented by large trucks.) Looking closer, I discovered these extensions were made from printed plastic posters, bound together with insulation tape, thus the banding stripes. Down the road were other improvisations on the road cone, such as one sitting on the base of a former wheelie chair, adding extra stability and mobility.

Venturing into the parking lot, I discovered more transformations of used posters: rolls of them woven together with string by a wall, acting as holders for cleaning tools. One corner of the parking lot was used to store these materials. Looking up at the shelter for this, I was awed by a string that runs across the entire parking lot, linking one corner of the rain shelter to the building on the other side. It seemed to have endured quite many months. On the way out, I arrived at the caretaker’s cubicle, and all of this made sense: here is someone with a knack for making stuff and caring for the situation: a lampshade out of an old plastic bottle, a chunk of Himalayan salt as a welcoming statue, a lighter for the smokers by the window. Plenty of personality, without even meeting the caretaker.
Self-supporting units extend the possibilities of activities afforded by existing spaces and infrastructures. They borrow spaces temporarily—without paying rent nor acquiring ownership. Often they involve moveable kits and things on wheels. Atelier Bow-Wow called them micro public spaces: ‘an object resembling the stage setting used in theatrical productions, a device to enhance shared activities and human encounters in public space. They occupy a middle ground between tools and architecture.’

A familiar form in industrially-advanced societies are kits for picnicking and ball-playing, as seen along the edges of water and grassy areas on summery days in Hamburg. In Berlin, I once visited the Thai Park, where on Sundays in the warmer months, enterprising locals from Southeast Asia bring their portable kitchens and cook delicious street food; while the other locals bring their chilly bins of beer. Others come with their picnic blankets, family, friends and music. When it rained, people huddled under the tarpaulin, in a convivial atmosphere between strangers and future-friends.

Floating around the historic city centre are blocks of polystyrene in potato sacks: yellow, green, red. They seem to stimulate impromptu street performances. I arrived just as one ended, into an atmosphere of resonating joy. Ljubljana, 2013
At an outdoor market, this movable feast offers grilled fish and shouju, as announced by the polystyrene signs and hanging dried fish. Chilli bins and suitcases provide seating. Seoul, 2013

Portable bar outside a market, where a shopping trolley has been modified to sell drinks and collect empty bottles. The shelf with holes are perfect holders for plastic cups on the go. Mexico City, 2017

Elsewhere, mobile kitchens could be found to be part of the daily urban fabric, depending on city regulations. In Mexico City, I was totally enchanted by the shout of ‘tamales’, and the whistles of the nomadic chimneys offering steamed potatoes. In Phnom Penh, a lady who sings ‘nyong men jong’ every morning and walks through our building with two earthenware pots of fresh rice noodles and green curry soup. In Taipei, the smell of roasting sweet potatoes always catches me before I encounter its nomadic oven.

knife-sharpening on the go
This bike has been re-engineered to allow backward pedalling, powering a motor connected to stone wheels. The sharpening mechanism can be detached, allowing regular use of the bike. Mexico City, 2017

Tools for scraping coconut flesh and scaling fish, made from pieces of wood with nails and beer bottle caps. Also on offer was knife-sharpening with a stone. Phnom Penh, 2014

park activation stations
Geneva, 2014
Pré en bulle is a non-profit association that creates and hosts bike activity stations, roaming around the parks in the city during the warmer months. The activities range from circus play, tea-making, bike repair, screen printing, music-playing. Anyone may join in, especially the curious.

One of the hosts, in a clown-suit, told me that the council had called out for ideas on how to make the local parks more vibrant, and they proposed this, which was accepted. They are paid for the time they are at ‘work’, even though it felt more like play, doing what they love. The actual running is self-organised, without much council intervention. ‘The hardest part is deciding what new station to make each year, because we all have so many ideas!’
tensile structures

These involve a combination of soft and rigid materials. They create outdoor rooms, using light and portable materials. Often, a tarpaulin grows out of a stable vertical, like an existing wall or a parked vehicle. A stick props it up, which is stabilised through anchoring: propped against a corner, into a hole in the ground, or with rope anchoring.

In a side alley, a family sells freshly cooked egg-tarts. The top of the tarpaulin attaches to the wall through a bamboo stick and coiling wire. The diagonal poles simply rest against the foot of the wall. Phnom Penh, 2014

rope anchoring

Rope, running from the top of the stick / edge of the tarpaulin, tied to either
• existing street furniture and fences; or
• a metal ring or hook planted in the road surface; or
• a portable weight, like a tyre filled with concrete with a metal ring sprouting out.

A shelter for flowers and home-made cactus pickles, outside the neighbourhood market. Maria has been coming here everyday for twenty years. The shade extends out from hooks on the wall, and the string is anchored to metal rings planted along the road surface.
A similar flower shop grows out of a tin shed around the corner, with the shade anchoring to the existing metal rails and a paint bucket. Mexico City, 2017

Temporary construction is a permanent phenomenon.

Gaps between the pavement form an anchor with rebar, for a mobile restaurant. Phnom Penh, 2014
extending conviviality

Coffee and drinks, printed publications, playful kits hanging on poles, a waist-height table for perching around. A space for gatherings and chance encounters, without an intimidating door to walk through. All seem like a perfect platform for an artist-run space to me.

The holes on the ground for the bamboo poles were made by digging out the existing pavement, inserting a small section of blue plastic plumbing pipe, then refilling around it with concrete.

Phnom Penh, 2014
Chairs from roughly hewn wood add a sense of forest craft to the urban air in a park. Malmö, 2014

In a backyard beside a river, this was conglomerated from drift wood, wooden bed-frames, breeze blocks and slabs of stone, all tied together with wire. Taichung, 2013

The canal in front of the Hamburg University of Fine Arts (HFBK) is clean enough for water lilies and fish. In warmer days, there are often people fishing and sitting along the bank. This structure was freshly made last spring. The older platform was relegated to become a sitting spot further down the bank. Hamburg, 2019

A tree becomes a place to dwell, dream and swing with these simple additions made of wooden planks. Auckland, 2010

baumscheiben (tree grates)
In certain neighbourhoods of Berlin, a local regulation allows and encourages the modifications of the space immediately around the trees along the footpath. Walking around, I found a variety of seating, made from pristine and salvaged materials, accompanied by different plants. Berlin, 2013

In Hamburg, I have observed similar constructions outside kiosks and kebab shops.

frugal deluxe couch-suite
In a backyard beside a river, this was conglomerated from drift wood, wooden bed-frames, breeze blocks and slabs of stone, all tied together with wire. Taichung, 2013
Here is a park in Tainan, the ancient city in southern Taiwan. My local guide said this is an area where many retired soldiers and their families live. The army life gave them handy skills, apparent from the handmade constructions from salvaged materials. An intricate tree house, a puppet theatre stage, steps made from bricks bound together with rope. Who says children are the only ones allowed to play? There were no permanent additions, everything could be removed, if needed. 2015

On a small mountain near Kaohsuing is a handmade gym. Health is important, especially if you are retired. Rather than joining a gym, how about making one yourself in your favourite hang-out spot? Props were made of bamboo bound together. An old PVC water tube attached to a bench became footholds for sit-ups. Even a clock on the tree to know when to go home. 2015
In this street corner, I discovered a miniature world on the edge of a parking lot, bringing unexpected pleasures for anyone who notices. Even better, its miniature landscape is rustic, an architectural ruin, yet constantly regenerating—a simulacrum of the bigger landscape around it. The liangting (Chinese pavilion) had been mortared down, so no typhoon could take away the resting spot for the tiny wayfarers. Various shells and pebbles were set around the conglomerate, jewel-like. There is the remains of what looked like a ceramic hippopotamus, now on the way to becoming an amphitheatre, with an acacia seedling sprouting out of its hind leg, and a mossy hill in its torso.

Taipei, 2015
Dedicated to the maker-user-carer-hackers of the world

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patterns of resourcefulness:
urban epiphytes
street sign orchid hammock
nests for sharing
wrinkling flatness
sandwiching around
collapsible brackets
soft brackets
bike chain shelves
non-standard modularity
holey walls
rail-side garden
hinges, folding
window into a store
corridor into a room
driveway conviviality
coiling around
extending poles
rain protection
avocado harvest tool
open living room
coiling & hanging off
hooks & systems
paired hanging
hooks on hooks
fragrant gate
flower facade
segmenting straight lines
wire clothes hangers
notching
multiplying
bracketing
spiralling
twisting
whorls
racks revamped
nomadic fragrant softness
weaving through gaps
soft around hard
hard around soft
weaving growing
Dammtor garden
mountain potato shelter
coiling around & twisting
piecemeal growth
fractaling cart
park-shed-garden-ecosystem
spanish windlass
bottles in new situations
carrier tool-kit
self-closing door
rainwater redirection
mini green-house
self-watering hanging pot

driveways of care
hugging bottles
blue tyre driveway
parking lot with personality
mobile units
promenade soccer kit
skating adaptive
carts & modified bikes
tensile structures
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