Creating Vibrant Villages and Towns

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MPT

making places together



"Visual art or social setting"

RK Jarvis 'Urban environments as visual art or social setting', Town Planning Review 51(1) 1980 51-66

Jan Gehl

'Life Between Buildings' (1971!) 'Cities for People' (2010)

(Other books by Gehl are also available!)

The biology and physics of space

How to connect

physical design choices

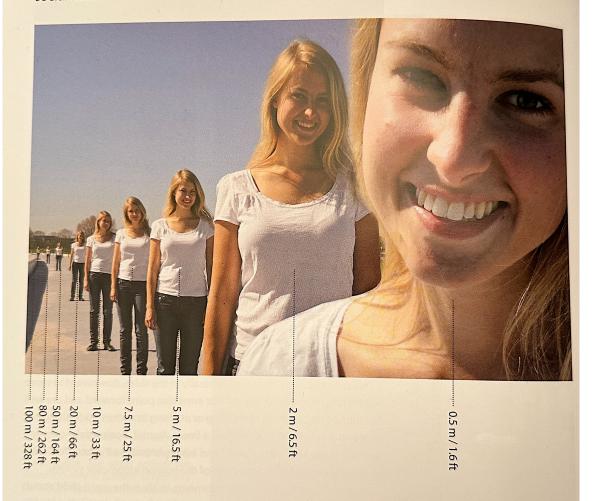
use of public realm choices

Not covering in any detail, but this has benefits for human health planetary health

Not covering at all the role of economics in why so often the human scale is ignored

The biology of our eyes and the physics of light

social field of vision



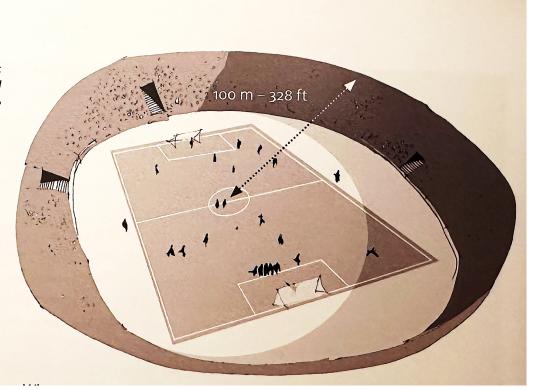
We can see people 100 meters/328 feet away, and if the distance is shortened, we can see a bit more. But the experience only becomes interesting and exciting at a distance of less than 10 meters/33 feet, and preferably at even closer ranges where we can use all our senses.²

other human being as a dim shape in the distance. Depending on the background and light, we can identify people as human rather than animals or bushes at a distance of 300 to 500 meters (330 to 550 yards).

Only when the distance has been reduced to about 100 meters (110 yards) can we see movement and body language in broad outline. Gender and age can be identified as the pedestrian approaches, and we usually recognize the person at somewhere between 50 and 70 and

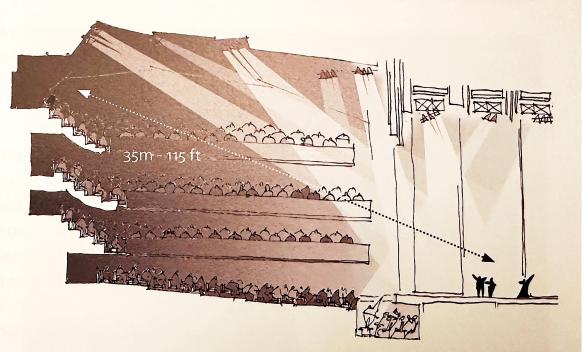
to see events

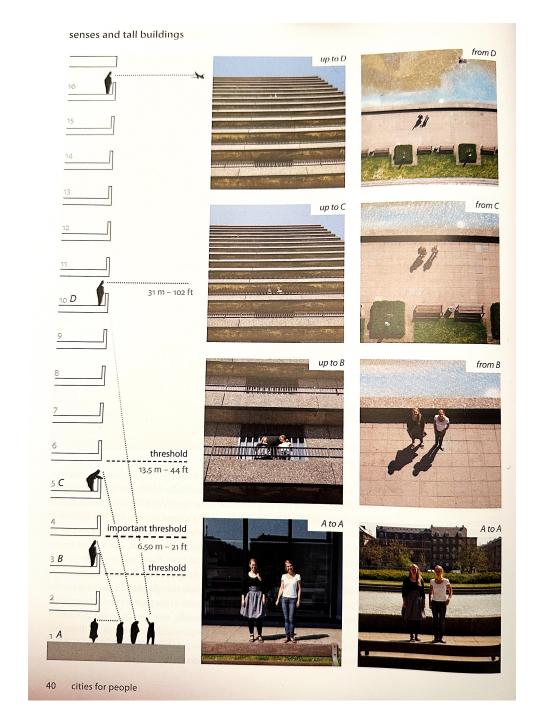
The ability to see people at distances up to 100 meters/328 feet is reflected in the dimensions of spectator space for watching sports and other events.

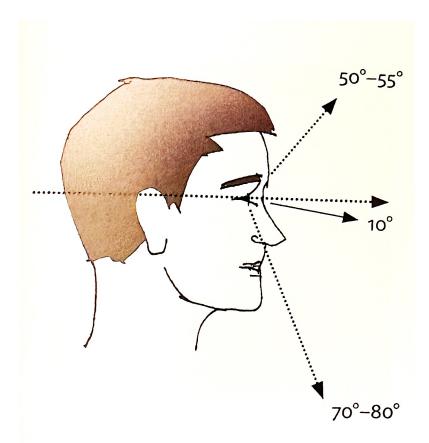


to experience emotions

When emotion rather than motion is in the spotlight, 35 m / 115 feet is the magic number. Used in theatres and opera houses all over the world, this is the greatest distance at which audiences can read facial expression and hear speech and song.



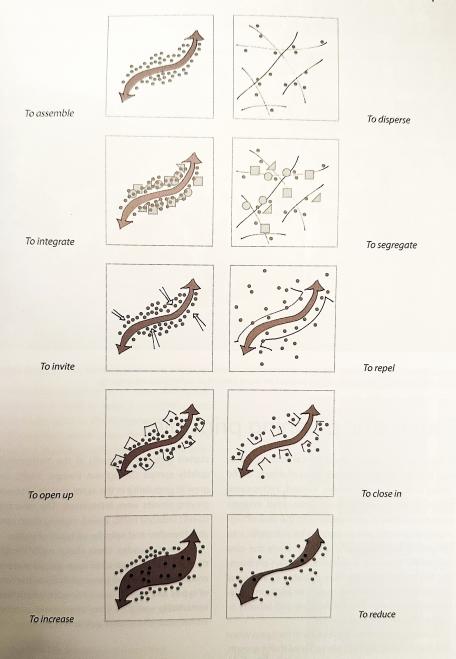




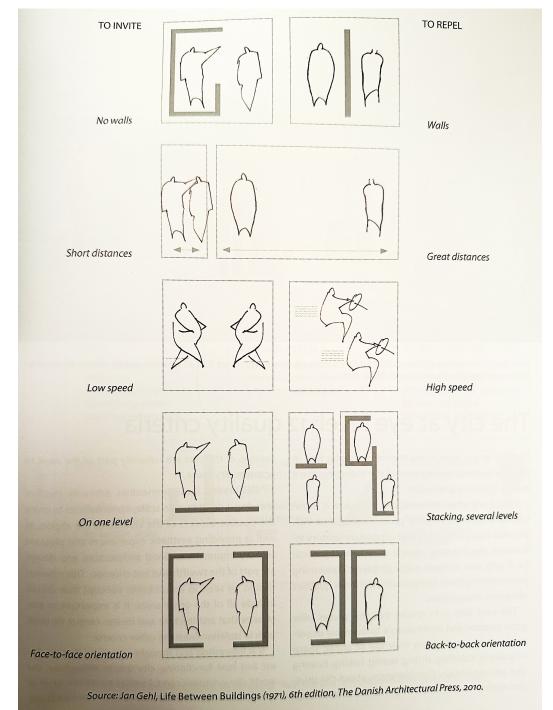
Our sense of sight has developed to enable us to walk on a horizontal plane. We do not see much above us and only slightly more when we look down in order to avoid obstacles in our path. In addition, we typically bow our heads 10 degrees while we are walking.⁵

"Only Connect"

city planning principles: to assemble or disperse



Source: Jan Gehl, Life Between Buildings (1971), 6th edition, The Danish Architectural Press, 2010. Further developed: Gehl Architects — Urban Quality Consultants, 2009.



Protection

PROTECTION AGAINST TRAFFIC AND ACCIDENTS

- FEELING SAFE
- Protection for pedestrians
- · Eliminating fear of traffic

PROTECTION AGAINST CRIME AND VIOLENCE

- --- FEELING SECURE
- Lively public realm
- Eyes on the street
- Overlapping functions day and night
- · Good lighting

PROTECTION AGAINST UNPLEASANT SENSOR' **EXPERIENCES**

- · Wind
- Rain/snow
- Cold/heat
- Pollution
- · Dust, noise, glare

Comfort

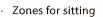
OPPORTUNITIES TO WALK

- Room for walking
- No obstacles
- Good surfaces
- Accessibility for everyone
- · Interesting façades

OPPORTUNITIES TO STAND/STAY

- Edge effect/ attractive zones for standing/staying
- Supports for standing

OPPORTUNITIES TO SI



- Utilizing advantages: view, sun, people
- Good places to sit
- Benches for resting

OPPORTUNITIES TO SEE

- Reasonable viewing distances
- Unhindered sightlines
- Interesting views
- Lighting (when dark)

OPPORTUNITIES TO TALK AND LISTEN

- Low noise levels
- Street furniture that provides "talkscapes"

OPPORTUNITES FOR PLAY AND EXERCISE

- Invitations for creativity, physical activity, exercise and play
- By day and night
- In summer and winter

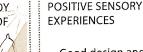
SCALE

Buildings and spaces designed to human scale



OPPORTUNITIES TO ENJOY THE POSITIVE ASPECTS OF CLIMATE

- Sun/shade
- Heat/coolness
- Breeze



- · Good design and detailing
- Good materials
- Fine views
- Trees, plants, water



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the city at eye level — ground-floor design

A — active

Small units, many doors
(15 – 20 doors per 100 m/328 feet)
Large variation in function
No blind and few passive units
Lots of character in façade relief
Primarily vertical façade articulation
Good details and materials

B — friendly

Relatively small units (10 – 14 doors per 100 m/328 feet) Some variation in function Few blind and passive units Façade relief Many details

C — mixture

Large and small units (6 – 10 doors per 100 m/328 feet) Modest variation in function Some blind and passive units Modest façade relief Few details

D — boring

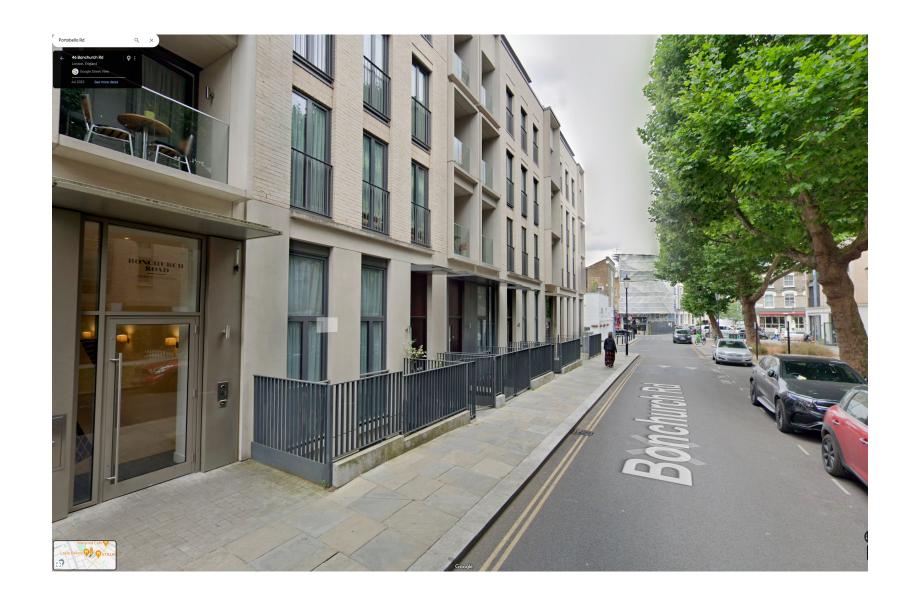
Large units, few doors (2 – 5 doors per 100 m/328 feet) Almost no variation in function Many blind or uninteresting units Few or no details

E — inactive

Large units, few or no doors (o – 2 doors per 100 m/328 feet) No visible variation in function Blind or passive units Uniform façades, no details, nothing to look at

Source: "Close Encounters With Buildings," Urban Design International, 2006 Further developed: Gehl Architects — Urban Quality Consultants, 2009





New residential areas are sparsely populated. A century ago seven times more people lived in the same amount of space.¹

	1900 Old city areas	2000 New city ares (high density)	2000 New city ares (low density)	2000 New city areas (suburbs)
Average size of household	4 people	1.8 people	2 people	2.2 people
Average dwelling area per resident m²/sq. ft.	10/110	60/650	60/650	60/650
Floor to plot ratio	200%	200%	25%	20 _%
Number of dwell- ings per hectare	475	155	21	<i>₽ ₽</i> 8
Number of residents per hectare	2,000 persons	280 persons	42 persons	17 persons

Not just what, but also how

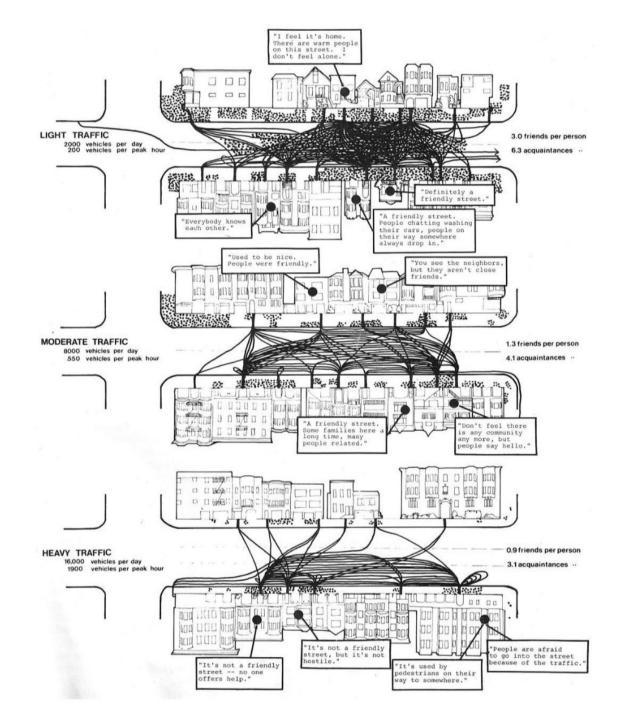


Figure 4 Community interaction on three Bristol streets

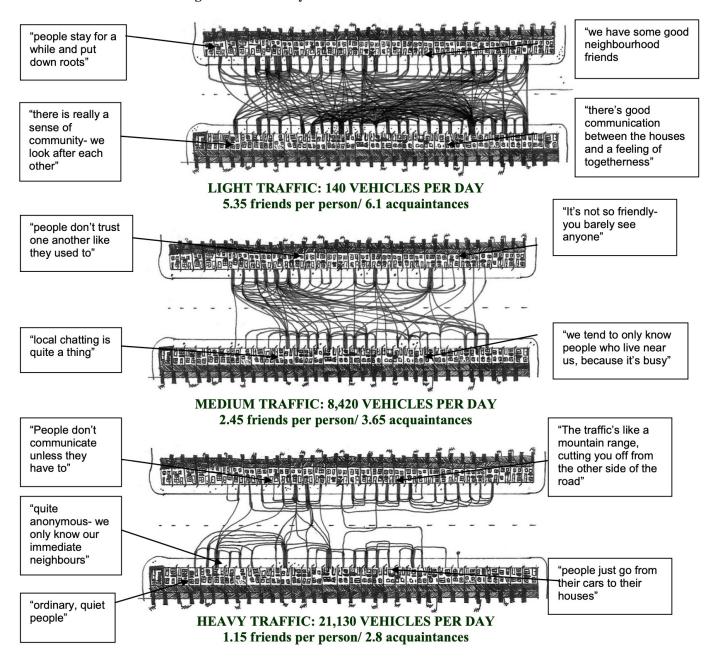
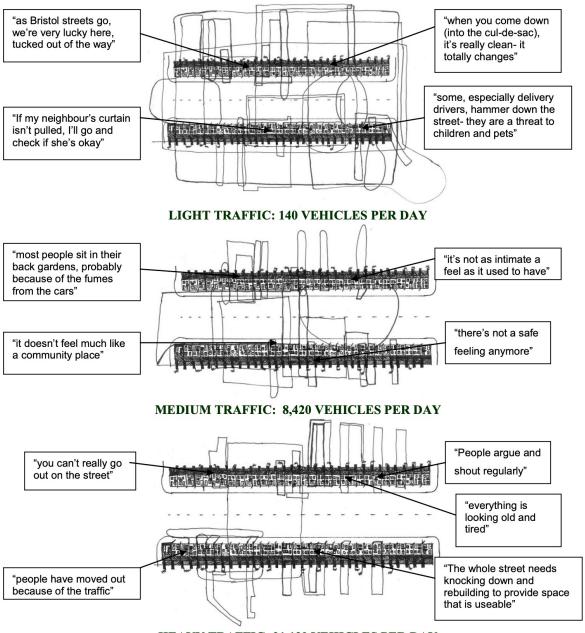


Figure 3. Composite Home Territory Diagrams for Interviewees from each Street



HEAVY TRAFFIC: 21,130 VEHICLES PER DAY

