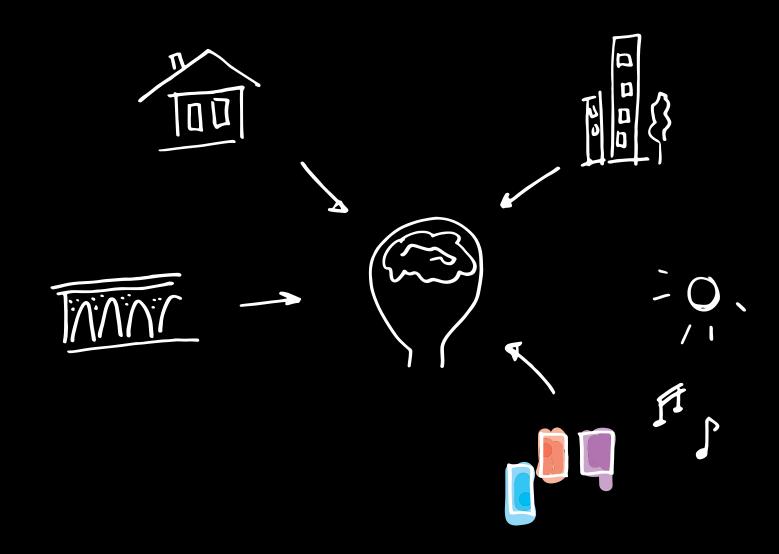
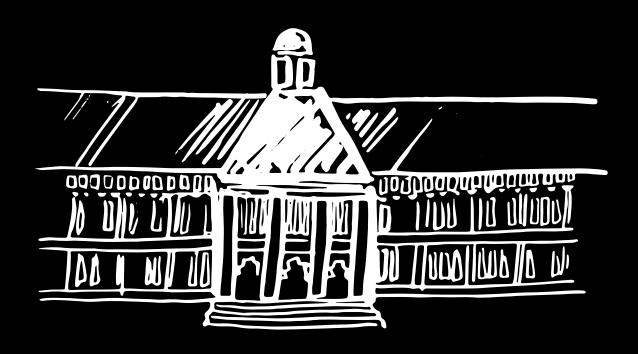
space for the brain (voor het brain)

ground for focus and creativity for every brain graduation project explore lab lauren broshuis april 2020





Faculty of Architecture

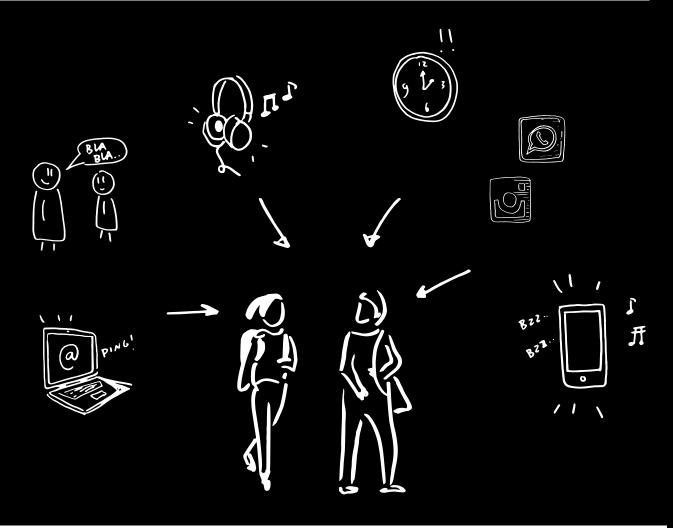


stimulate creativity stimulate well-being

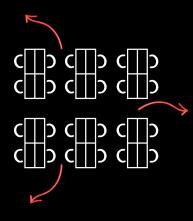


overstimulated

The Human Brain is Loaded Daily with 34 GB of Information



Through mobile phones, online entertainment services, the Internet, electronic mail, television, radio, newspapers, books, social media etc. people receive every day about 105,000 words or 23 words per second in half a day (12 hours) (during awake hours).



open office trend

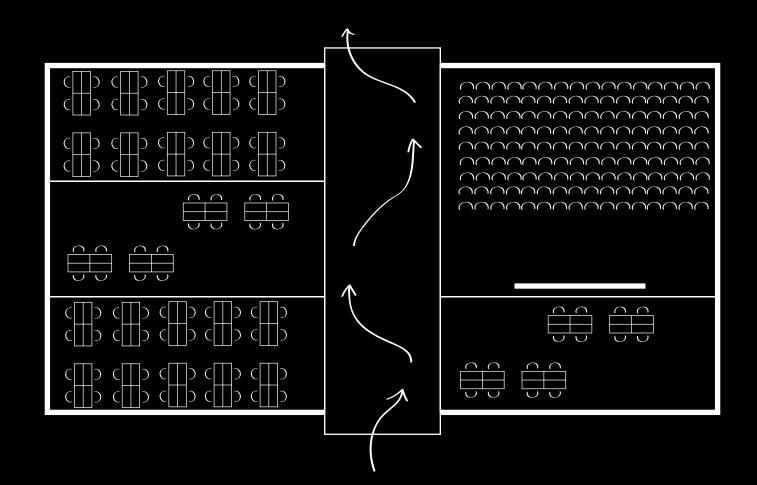


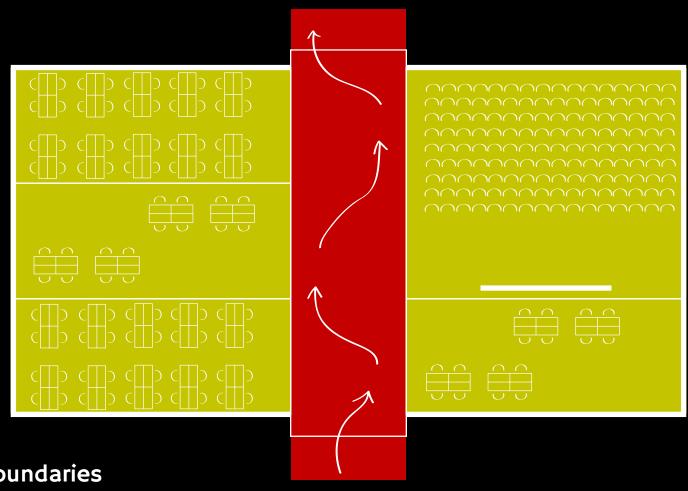






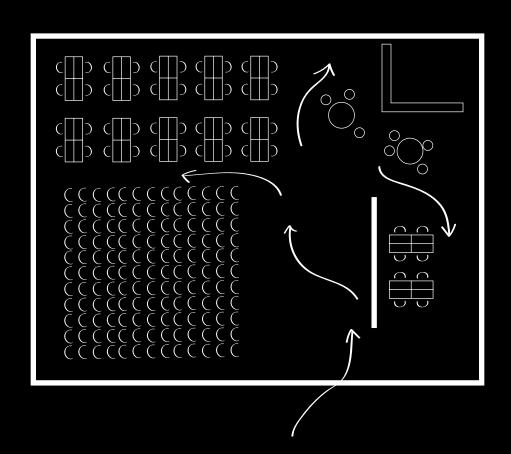


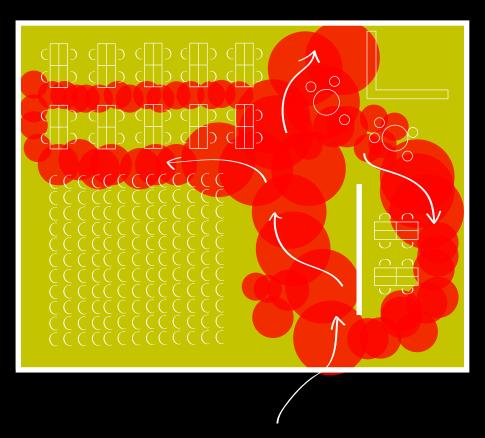




- + clear boundaries
- + less distractions / overstimulation
- little interaction
- less 'lively' environment







- + lot of interaction
- + 'lively' environment
- lot of distractions (overstimulation)
- no clear function









Open office plans are as bad as you thought

The Open Office Concept Failed. So, What Now?

Google got it wrong. The openoffice trend is destroying the workplace.

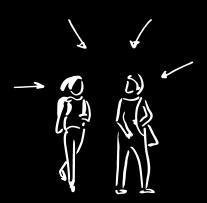
Open offices seem great — until you work in one

Why Open-Plan Offices Don't Work (And Some Alternatives That Do)

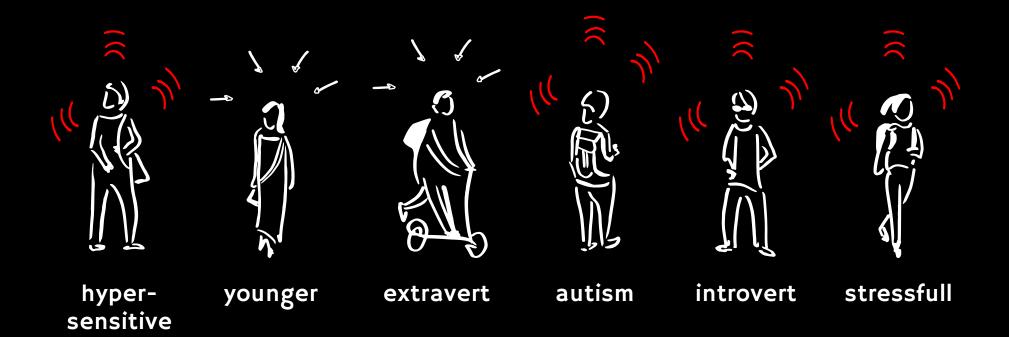
The impact of the 'open' workspace on human collaboration

Why It's Time to Ditch Open Office Plans

Facebook's Utopia, Our Nightmare: Open Offices Are Destroying Productivity



no one-size-fits-all





experiment

Orange Hall





Studio Space

BK Library





Canteen

Model Hall





Stairs



pleasant
comfortable
stimulating
exciting
peaceful
controlling



pleasant
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stimulating
exciting
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exciting
peaceful

controlling

distracting:

other people
colour
spatial measurements

pleasing:

daylight
spatial measurements
other people

other people daylight spatial measurements objects background noise spatial relationships and the spatial relationships are spatial relationships are

daylight
objects
spatial measurements

background noise other people

daylight
spatial measurements
other people
aesthetics
materials
colour



pleasant comfortable stimulating exciting peaceful controlling



pleasant
comfortable
stimulating
exciting
peaceful
controlling



pleasant
comfortable
stimulating
exciting
peaceful
controlling

distracting:

background noise
other people
objects
colour

pleasing:

daylight
spatial measurements
artificial light

other people
objects
materials

other people
background noise
colour
aesthetics
spatial measurements
objects

aesthetics
materials
daylight
spatial measurements
objects
colour

daylight colour



small talk

use earplugs

talkative to others

explore around

phone call

discussion

group meeting



use earplugs

small talk

talkative to others

discussion

make model

explore around

group meetirg

tutorial / phone call



work individually use earplugs

think out task explore around

creative ideas



small talk

talkative to others

phone call

discussion

explore around

use earplugs



make model

small talk

talkative to others

explore around

use earplugs

phone call / tutorial

creative ideas

discussion / group meeting



phone call

small talk

talkative to others

explore around







personality

environment

personality

introvert |-------extravert

morning-evening person / distracted / breaks / time at the faculty / creativity / focus

mental disorder / age / gender / current mood

focus is stimulated by...

noisy environments

colour

surrounded by working students

music

exercising

reading

nature

good night of rest

quiet environments

meditation

<u>creativity</u> is stimulated by ...

noisy environments

colour

brainstormsessions

conversations with others

other media

reference projects

music

exercising

reading

nature

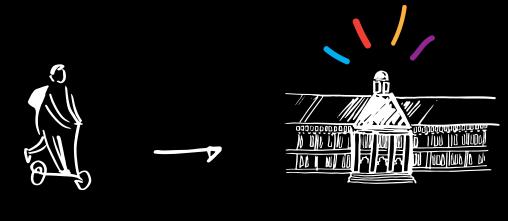
good night of rest

quiet environments

boredom

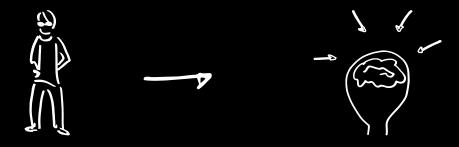
meditation

creativity



extravert

external factors



introvert

internal factors





introvert

more stimulating / exciting







extravert

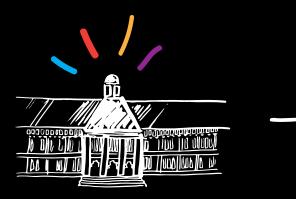
prefers to study @ BK





more pleasant/comfortable

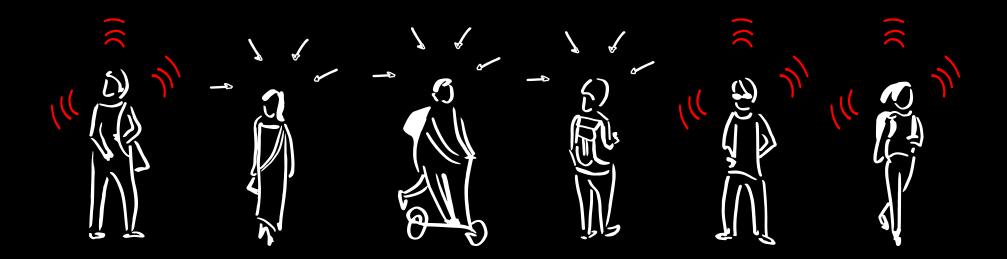
prefers to study





more stimulating / exciting

more interaction

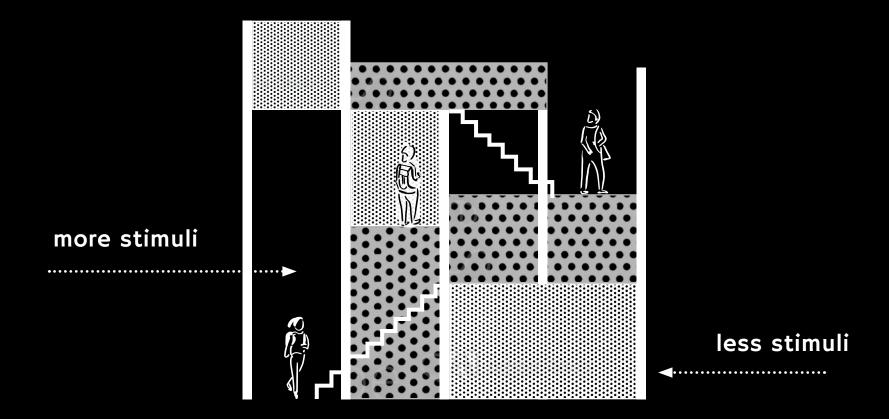


everyone perceives an environment differently

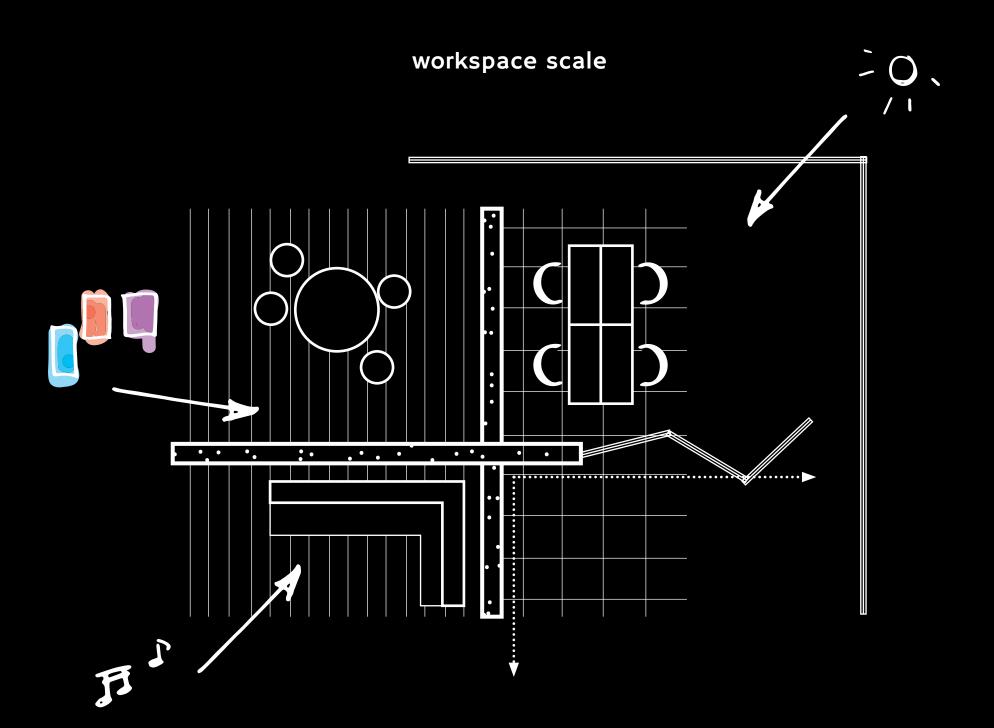
1

building should serve every user, instead of designing for the average person

building scale



students build their workspace inside this gradation of stimuli



design input



acoustic insulation walls, panels, tables



> use of light maximise daylight, limit blue light after 5/6 pm



> careful with colours too bright can be distracting, white is a good basis, yellow can stimulate creativity



> space for interaction stimulates creativity



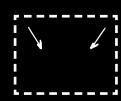
> be aware of other people distracting but also desired; find balance



> space for presentations adaptable walls/elements?



> spaces with high ceilings is desired by students and stimulates creativity



> room of boredom box, no internet, no distractions, to stimulate focus and creativity, also meditation

design input



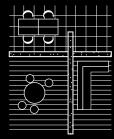
> nice break spots
break every 1.5h for recovery,
this should be stimulated



> napping zones

taking afternoon naps is

benefitial for productivity



> individual workspaces
quiet if desired, based on a
person's needs; flexible /
adaptable elements



> stimulate movement good for brain, creativity and focus; outside and within building



> nature / courtyards
good for focus & creativity

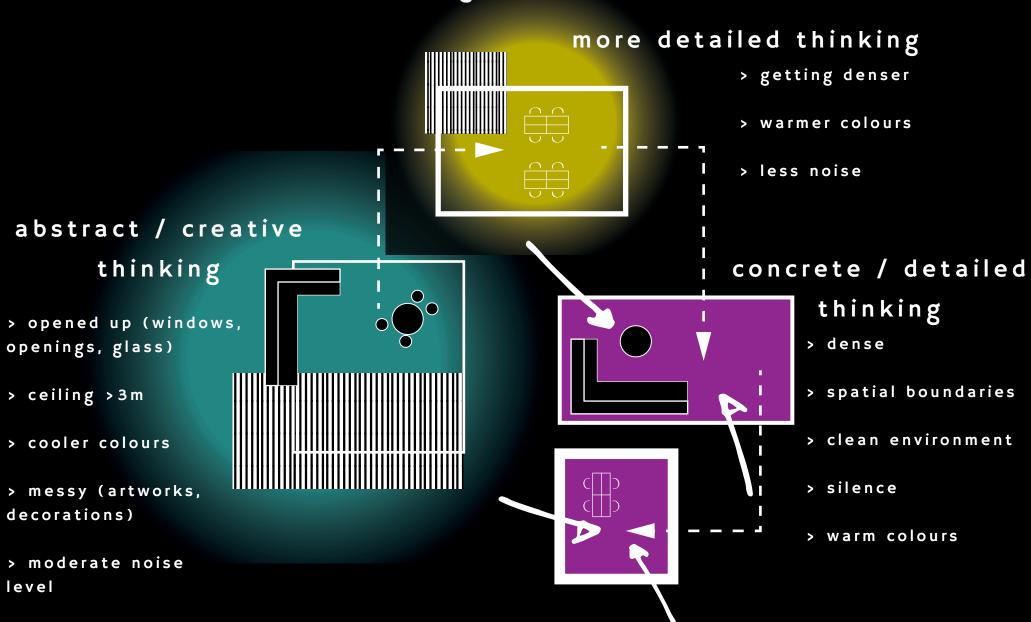


> smart building technologies
to stimulate user comfort



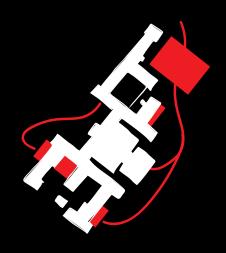
> exposition space
for creativity

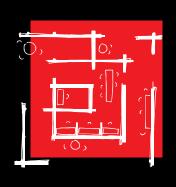
design process



various scales











campus

masterplan BK design lab

workspace

design lab

program:

- > individual workplaces (±800)
- > space for relaxation
- > nature
- > room of boredom
- > space for interaction
- > design spaces (models) +
 waste disposal

