Using 2D photography as a 3D constructional tool within the metaverse

ABSTRACT

Photography is a powerful 2D representation tool to document 3D volumes like architecture. It is possible to manipulate photos with 2D tools like Photoshop in order to suggest new 3D re/formations and re/interpret architecture. One can alternatively use 2D textures as mappings to create realistic 3D model renderings. This project is a combination of these two approaches: photographing architecture, turning the resulting photos into transparent image files, and then mapping these photos onto 3D volumes in order to create a ‘new’ architecture from an ‘existing’ architecture.

One of the advantages of using photographs to create architecture is that the photo pool can easily be composed of visuals from various cultures and you may end up using an amalgam of visuals from, say, so-called opposite cultures. This possibility reminds the peaceful collaboration of musicians from different cultures to create a unique music. In addition, this act can also be taken as a migration of media through appropriation of photography for 3D volume creation and re/presentation. At this point, we are talking about a double representation, since photography is a representation tool already and it gains another representational dimension when it is remapped onto 3D volumes for the construction of an alternative reality.

This article concentrates on using a representation tool (photography) to construct a 3D space (architecture) within a virtual 3D environment (Second Life®).

KEYWORDS

photography
construct
perception
virtual reality
representation
metaverse
virtual architecture
deralrtivism
During the process the concepts of perception, reality, cultural context, representation and appropriation will be examined.

ARCHITECTURE, PHOTOGRAPHY AND TRUTH

Photography is the only medium that enables architectural works to be shared with people who do not have access to these works. It is, in this respect, the ultimate representation of architecture that is built. There are various techniques, lenses, rules of thumb that are used in architectural photography in order to make the process as ‘appropriate’ as possible. But these special techniques usually provide us with unique visual recording possibilities that are practically and physically impossible to the naked eye. The so-called ‘perspective correction’ process, much used in architectural photography, carries the potential of producing some steeply converging lines, especially when the photographer is close to the building being photographed. Consequently, the shifting motion in photography causes another shift in our perception: photography does not reflect the truth.

Figures 1 and 2: Professional architectural photography samples where two horizontal photos taken with a wide-angle, tilt-shift lens were combined in order to widen the angle even further and augment the perception. This coverage is not possible with a single shot and offers a unique aesthetic. Photos by Murat Germen, 9 August 2007.
Considering the fact that there are different lenses ranging from wide to tele-angle, different films for different purposes yielding different contrast histograms, different speed values that lead to various levels of graininess, the fact that we do not see in black and white, etc.; it is possible to assert that cameras do not see in the manner we see and therefore the photographs that cameras take have no possibility of reflecting the truth as we see with our eyes. Piotrowski and Robinson approach the problem from another angle:

Photography, on the other hand, filters reality in a different way. A photograph seems to be an ‘objective’ record of the field of vision that is trustworthy because the photochemical process provides a reliable method of recording an image. [...] All that makes photography appear believable or objective conceals how much a photograph is a constructed representation.

(Piotrowski and Robinson 2001: 54)

Unlike a person’s experience in architectural space, a photographer’s picture singles out a particular view and freezes it in time. The image is composed so that it is seen in a certain manner, making particular relationships visible and hiding others. Photographers frequently manipulate light, either artificial or natural, to enhance selected attributes of architecture. Promotional photographs of architecture, rather than supporting a symbolic dialogue between the viewer and a depicted building, encourage the viewer’s desire to own a similar kind of architectural commodity. ‘This constructed desire for the represented object shapes the commercial subject-object relationship’ (Piotrowski 2001: 54).

With reference to the notion of an ideal truth Mark Kingwell puts it clearly:

The image is made, not found, and the making is inherently personal, rooted in prejudice. The important truth is to recognize and acknowledge bias openly, not least in the essential decisions around framing the image. [...] Our investigation must entail a special kind of refusal: a refusal to take the taken-for-granted for granted. It follows that the responsible image is the one that makes that refusal necessary, unavoidable, insistent. That is the truth in the image though perhaps not the truth we thought to find.

(Kingwell 2006: 16)

The concepts of objectivity and the presence of a single dogmatic reality are also criticized by Vilém Flusser, who states that ‘the apparent non-symbolic, ‘objective’ character of technical images has the observer looking at them as if they were not really images, but a kind of window on the world’. He goes on to say that the viewer trusts what he/she sees in the way in which they trust their own eyes. If there is any criticism involved, it is not as a critique of image, but as a critique of vision; the critique is not concerned with their production, but with the world ‘as seen through’ them.

Such a lack of critical attitude towards technical images is dangerous in a situation where these images are about to displace texts. The uncritical attitude is dangerous because the ‘objectivity’ of the technical image is a delusion. They are, in truth, images, and as such, they are symbolical.

(Flusser 2000: 4)
Since we deal with symbols at this point, the notion of representation comes in. As Fritjof Capra states in his *Tao of Physics*, ‘representation of reality is so much easier to grasp than reality itself, we tend to confuse the two and to take our concepts and symbols for reality’ (Capra 1975: 28). This is also very much in parallel with Jean Baudrillard’s statements in his philosophical treatise *Simulacres et Simulation*, where he asserts that simulated copy

Figure 3 and 4: Staging a succession of planes devoid of the typical depth of field, with all its planes kept clearly and no shadows cast (due to online rendering limitations in Second Life®), leads to an idiosyncratic perception mode that further fosters the concept of constructed reality and creation of a personal world. This personal world exists in the virtual world and the particular experience of the constructed reality takes place with the help of a concept that we can call ‘tele-presence’, which focuses on the relationship between an individual and his/her personally mediated environment. Three-dimensional modelling artworks constructed in Second Life® by Murat Germen, 2008–2009.
has superseded the original object, therefore representation has replaced the
reality it illustrated. Since representations are personal definitions of particular
personal experiences and perceptions, it becomes rather problematical to talk
about objectivity where reality is concerned.

ARCHITECTURE AND CONSTRUCT

The concept of construction in the architectural design process is a tempo-
rary process which finally transforms itself into an end ‘product’: a building,
a culture, a society, an idea, a freedom, a dogma, etc. Construction sites
can be conceived as stages where this process is being ‘performed’ over
and over again. The inherent incompleteness within the constructing act
pushes us to dream; on the other hand, a completed product loses its nar-
native potential as it as it gives us all the necessary pieces that constitute
the whole: there is no puzzle to solve and no story to write. Construction
sites, in this sense, are like historical ruins; Paul Zucker asserts that ‘devas-
tated by time or wilful destruction, incomplete as they are, ruins represent
a combination of man-made forms and of organic nature’ (Zucker 1961:
119). As a tribute to and resting on this statement, the more incomplete the
construct is the more organic life gets, and the more surprises and the less
boundaries we have.

Architectural photography has the potential to recreate the previously
mentioned puzzle in order to bring an alternative representation to archi-
tecture. The architectural photographer is sometimes offered the freedom of
interpreting and reconstructing architecture in order to be able to present a
novel virtual perception to the audience. The idea here is to get a set of spatial
clues that may even be used later in other architectural projects. The artist/
author was personally invited to two different concept exhibits in which he

Figure 5: ‘Metagen’ Series #12 by Murat Germen., 2008–2009.
was given the freedom to invent a virtual architecture through photography. The concept text written for one of these exhibits reads as follows:

I went, saw, stopped, attempted to grasp and enter it, looked at construction process and workers with respect, tried to internalize, wanted to claim it for a while, dreamed of creating a microcosm out of the macrocosm I was in, shot and shot and shot and finally selected:

The created world, though intended for all, was probably quite a personal illusion …

(Germen 2006)

The following two quotes from William Mitchell will help the author in clarifying the notion of ‘reconstruction of space’:

The city – as understood by urban theorists from Plato to Aristotle to Lewis Mumford and Jane Jacobs – can no longer hang together and function as it could in earlier times. It’s due to bits; they’ve done it in. Traditional urban patterns cannot coexist with cyberspace. But long live the new, network-mediated metropolis of the digital electronic era.

(Mitchell 2000: 3)

The buildings, neighbourhoods, towns, and cities that emerge from the unfolding digital revolution will retain much of what is familiar to us today. But superimposed on the residues and remnants of the past, like the newer neural structures over that old lizard brain of ours, will be global constructions on high-speed telecommunications links, smart places, and increasingly indispensable software. This latest layer will shift the functions and values of existing urban elements, and radically remake their relationships. The resulting new urban tissues will be characterized by live/work dwellings, twenty-four-hour neighbourhoods, loose-knit, far-flung configurations of electronically mediated meeting places, flexible, decentralized production, marketing and distribution systems, and electronically summoned and delivered services. This will redefine the intellectual and professional agenda of architects, urban designers, and others who care about the space and places in which we spend our daily lives.

(Mitchell 2000: 7)

The above mentioned redefinition process can also be associated with the conception of simulacra as offered by Jean Baudrillard. During the 1980s, Baudrillard became influenced by Marshall McLuhan and began developing ideas about what determines the nature of social relations, with special emphasis on modes and forms of communication. His most famous formulation on what he calls ‘simulacra’ and ‘simulation’ fits here. He argues that the western societies have undergone a ‘procession of simulacra’, a chain of four ‘orders of simulacra’:

1. The era of the original.
2. The counterfeit.
3. The mechanically produced copy.
4. The simulated ‘third order simulacra’ where the copy has replaced the original.
Baudrillard further argues that in modern society the simulated copy has supplanted the original object or the original experience and ‘the map has become the territory’ (Baudrillard, 1998: 166). Art theoreticians and philosophers have already discussed the extent to which reality is represented in photographs. The general acceptance today is the idea that photographic images only imply reality or truth and photographs in daily life do replace the reality copied or represented in them; examples of this are people kissing loved ones’ portraits or the huge industry built around pornography, or mouth-watering food photographs (Cetin 2007). Following this argument, one can justify the motivation of practicing architectural design within the realm of digital photography since the image created within the photograph carries the potential to replace the ‘truth’. This argument can additionally be supported by the following quote from Lynda H. Schneekloth:

Architecture, landscape architecture, planning, and other environmental design fields are practices whose primary aim is to make the world, to make something new. We give material form to some vision of human society and place. The shadow side of this creation, this making, is that these fields are also about ‘unmaking’ the world. The world already exists, and every time we plan, design, and/or construct some aspect of worldness, we are replacing and therefore unmaking something else.

(Schneekloth 1998: 1)

ARCHITECTURE WITHOUT ARCHITECTS

In Architecture Without Architects, originally published in 1964, Bernard Rudofsky provides ‘a demonstration of the artistic, functional, and cultural richness of vernacular architecture’. Rudofsky discusses spaces and buildings made without the involvement of architects. He is interested in buildings produced through ‘communal enterprise’ before architecture ‘became an expert’s art’. Some of his examples are buildings made by builders without the direct involvement of users; others are a collaborative effort between builders and users (Hill 2003: 58). The participation of the dweller in the design and construction processes requires leeway and the flexibility by technical means suggests two further types of user creativity: constructional, a fabrication of a new space or a physical modification of an existing form, space or object, such as removing the lock from a door; conceptual, a use, form, space or object intended to be constructed, such as a door.

(Hill 2003: 88)

Conceptual creativity encourages the user to be creative mentally and provide practical data to be used in more responsive architecture. Concerning this Rudofsky says, ‘vernacular architecture does not go through fashion cycles. It is nearly immutable, indeed unimprovable [sic], since it serves its purpose to perfection’ (Rudofsky 1964: 2).

Bernard Rudofsky was neither an architect nor a theorist in the usual sense. At the start of his career he completed a number of houses in Italy and Brazil, where he employed the formal language of the modernists (although his writings appear to indicate that Rudofsky was primarily engaged as a critic and culture theorist from the 1940s onwards). He did not just write
about architecture and design, but also on topics such as clothing, shoes, eating and bathing. The common element behind all of these activities, though, was the human body, and his lamentation of the loss of sensual awareness. No lifestyle should be preformed, preordained or preconceived. The interaction of the human being with the environment he has shaped has to be characterized by an individual attitude towards the life of a responsible citizen (Platzer and Wit 2007).

It is obvious that not everybody has the ability to build and design; not everybody can become an architect. Yet this fact should not lead to the conception that the architect should be in full control of the entire process. There is more potential for a truer localization of architectural design if users are involved in the design process. If the architect takes control of everything, local design trends to be introduced by him/her face the danger of becoming overly globalized, due to the inevitable presence of governing fashionable styles dictated by ‘high architecture’ or hegemonic macro trends that directly/indirectly force architects to follow them:

Historically, in professional practice, many architects retained their position by servicing powerful clients and accepting their values. When the powerful ignored, misunderstood, or repressed the needs of others in the society, the views of the less powerful did not play a role in the definition of architectural knowledge or practice. Insofar as the traditional perspective is followed, it excludes the powerless, or the ‘other’, and has proved unable to effectively encompass social justice, the politics of diversity, or the politics of empowerment. […] Involving the user, the ordinary citizen, the public, not only would require more time and
energy but would demand substantial changes to existing practices. […] Clearly a culturally critical position is needed’.

(Piotrowski and Robinson 2001: 76)

As a contrast, in vernacular architecture from the primitive age, or even in several parts of the world nowadays, there is no segregation between the architect and the community because normally the architect is indeed a member of the community. Thus there is no differentiation between both cultures and there are no conflicts of interests since they have the same way of life, use the same symbols and codes, and apply the same strategies. The result is usually that every part of vernacular architecture – be it its technology, connections with nature or with the social system – is culturally related. Although the typology of the building is merely simple and less dramatic, its immense level of ingenuity is beyond belief (Paramita 2009: 3).

EXPERIMENTATION IN SECOND LIFE®

As digital photography became more accepted, influential and widespread, artists/designers started to take advantage of photos to create novel 2D/3D entities. Panoramic photography, photo-mosaics, stop-motion studies are examples of 2D creations using numerous photographs. Software packages whereby one can employ photographs to create 3D scenes and environments have also infiltrated the marketplace in recent years. In such cases photographs mostly act as planar surface information to be used as mappings onto volumetric faces and they provide valuable knowledge/detail on the identity of a particular entity.

Virtual architecture is a term used for architecture specifically created in the computer environment and never used within the realm of architectural photography. This article concentrates on the prospect of constructing architecture virtually through photography within the metaverse. Artists from widely disparate periods, ranging from Piranesi to Lebbeus Woods, previously dreamed about architectures that could exist virtually, on paper. Nowadays the computer screen and particularly 3D environments, which can be accessed via that screen, appear to fulfil this dream of many millennia. While space is usually defined/experienced as a physical entity, we have recently begun to observe that the notion of ‘space’ can exist/be perceived/used as a non-physical organism by means of interactive media and virtual environment applications in the computer platform. Such creations bring new definitions of ‘space’ and can be named as ‘informational space’ or ‘cognitive space’.

The artist/author has been pursuing his own line of enquiry into creating such novel identities through the usage of photography mapped onto new media. Since past studies mostly revolved around setting up panorama stitches, investigating 3D objects and environments was the next logical step. There were various offline and online 3D environment alternatives in which one could carry this experimentation out. Second Life® was selected because it has a powerful 3D construction interface.

Of equal importance to the artist/author is the fact that Second Life® is a global(ized) milieu where participants worldwide pursue interactive 3D creativity. This global platform upon which participants from many diverse backgrounds can interact, and even build collaboratively, is of added interest to the artist/author who believes that personal experience is closely associated with local culture and consequently influences the particular representations that an individual will create. No matter how hard one tries to keep away from
Murat Germen

Figure 7: ‘Metagen’ Series #23 by Murat Germen., 2008–2009.

Figure 8: ‘Metagen’ Series #29 by Murat Germen., 2008–2009.
cultural constraints in order to stay free, there is a collective memory which
is embedded in our genes and that intuitively/unconsciously guides individu-
als when making decisions. Thus, instead of escaping from tradition, a more
balanced conduct can emerge as reinterpreting local customs, rituals, prac-
tices, institutions, beliefs, etc. in the presence of new ways of communication.
Adaptation, reinterpretation, revision, variation, reconsideration, adjustment,
improvement are not necessarily notions forcing one to give his/her principles
up; on the contrary, they ensure that individuals stay alert, fresh, ready, crea-
tive and open-minded. The more one culture’s representations are updated
the more progressive this culture gets and the more it has to share.

As Andréa Zhouri states, instantaneous global communication and mass
transportation have made distances ‘shorter’, time and space have become
compressed, and contact with different cultures now shapes personal experi-
ence of the world in a global way. Of course, such ‘global’ experiences require
some preconditions in the form of financial means, access to new technol-
gy and linguistic skills. Certainly environmental and human rights agents
share this ‘global’ experience. Thus remote areas have become closer and
interlinked just as ‘the exotic’ has become familiar. However, this is not to
say that environmentalists and advocates for human rights all hold the same
homogeneous image or understanding of the world. Neither is it to say that
the intensification of contact implies a better understanding of and commu-
nication with ‘the other’ (Hussey and Thompson 2000: 178). If a culture and/
or individual has a comprehensive assessment of personal experience(s) and
a resulting definition of priorities leading to conscious representations, it/she/
he will have more chance to generate self-esteem, self-confidence and conse-
quently understand ‘the other’ in order to coexist in peace.
One consideration throughout this process was that the constitution of space involving multiple incompatible perspectives to be present in photos should be used. This can be likened to Ottoman miniatures where various conflicting perspectives can coexist. This diversity of perspectives takes us to the idea of ‘perspectivism’, originally proposed by Friedrich Nietzsche, where all ideations take place from particular perspectives. This means that there are many possible conceptual schemes, or perspectives which determine any possible judgement of truth or value that we may make; this implies that no way of seeing the world can be taken as definitively ‘true’. If we take this a little bit further, there is no strictly objective ‘reality’ to be re/presented, but instead a detailed depiction of our personal perception, which is closer to reality since it describes a particular experience (which is different for every individual). This experience is a symbolic association as representation includes everything people construct as a visual record or figurative manifestation of a reality.

Within this approach, architects usually reduce the definition of representation to the creation of such visual forms as drawings or models that selectively double or imitate the physical reality of a building. I would like to move beyond this traditional view to define representation as a culture-specific and dynamic process of establishing the relationships between reality and the signs created to symbolize this reality. In this process, reality becomes thinkable, and its meanings are symbolically assigned.

(Piotrowski and Robinson 2001: 42)

Throughout the building activity undertaken in Second Life®, the artist/author was highly aware of the fact that, in general, buildings do not communicate but represent – a distinction essential to the study of architectural specificity of thought. This representational process is far more complex and dynamic than the process of sending, preserving, retrieving, and decoding well-formed messages. According to Piotrowski, buildings and cities represent when they serve as repositories of materialized concepts that manifest how people have defined themselves in their lived reality. In this way, a building becomes a repository of cultural memory and helps to expand the sense of reality beyond the here and now. Any piece of architecture functions in this manner when its value is found in the interconnections it establishes with other buildings, practices of everyday life, social structures, attributes of the natural environment, or metaphysical concepts, although many aspects of these relationships may be perceivable only to people identifying with the local culture(s). This process of establishing a symbolic network of relationships can be viewed as analogous to what Jean-François Lyotard calls the emergence of representational consciousness. He observes that the viewer’s accumulation of experiences, and the delay to the immediacy of reaction of what is being perceived at a particular moment, show ‘how perception stops being “pure”, i.e., instantaneous, and how representational consciousness can be born of this reflection (in the optical sense), of this “echo”, of the influx on the set of other possible – but currently ignored – paths which form memory’ (Lyotard 1991: 42). Through this process, according to Lyotard, human thoughts establish networks of relationships within functioning concepts of reality.

As a space of representation, a building only foregrounds concepts of reality and implies modes of thought and perception. For example, it invites a tacit dialogue between old and new, or between a culturally shared and a personal
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sense of reality. Whatever exists or happens in a building, we interact with it symbolically. Any building admits various and even conflicting concepts of reality. Such hybridity of meanings is possible because concepts of reality and physical forms of buildings, although symbolically related, are never fully codependent; they are differently constructed. Because buildings do not impose concepts of reality but make them thinkable, many concepts may coexist and be in symbolic dialogue with one another within a physical space. Similarly, it does matter how a person interacting with a building finds personal relevance in this interaction. ‘To reveal these kinds of meanings, the building must somehow engage, like Lacan’s mirror, a personal sense of reality’ (Piotrowski 2001: 45). This personal sense of reality makes us question the inherent nature of the concept of ‘representation’ and helps us to extend it into a more flexible (and maybe more correct) notion/formulation of ‘re-presentation’.

The movie industry would appear to be yet another platform in which representation has a significant part, especially when it comes to adapting/altering/converting cities for particular needs, such as creating futuristic sci-fi cities or architecture which never existed. A particular type of illustration called ‘matte painting’ created by illustrators (and not architects) usually serves as departing points for such architecture. The fact that illustrators can create virtual architecture can also lead to the assumption that photographers who can read space properly can use photography as a tool to reinvent, reinterpret and reform architecture. The urban space created in Luc Besson’s renowned movie The Fifth Element (1997) is one of the best examples where an ‘almost impossible’ artificial architecture is envisioned and implemented as a simulation. The complicated upwards and sideways stretch of the built environment takes the limited one-axis 3D volume structure to a richer multiple-axes structure,
which allows circulation in all directions (i.e., not just in the horizontal direction as was usual then).

It would seem to be apparent that fictional processes, like movie making and novel writing, can be used to expose unseen studies of architecture. By the same token, the most faithful representational tool of architecture, i.e., photography, can also be employed to exercise ‘fictional’ architecture; this can later be taken advantage of to enable ‘real’ architecture to be built.

The artist/author wanted to take advantage of the Second Life® environment in order to test his proposal of performing architectural design with the aid of photography. Thus the fundamental concern was to create architecture through the usage of architectural representation: a layering whereby 2D real-life photographs, taken by the author on previous occasions, were converted into highly contrasted black and white images with a transparent background. These images were mapped onto a complex 3D quasi-architectural construct built in the metaverse and which consisted of transparent object planes. Once the construct was textured with the real-life architectural photographs, a new generation of photographs (an ‘architecture built upon architecture’) was created using the Second Life® software’s snapshot feature.

One further observation as the project was implemented was that virtual architecture seems to be a very potent platform when it comes to the proper planning of architecture through a multiplicity of sections. Even though the constructs assembled by the artist/author were highly complex through the imagery mapped onto their surfaces, as well as through their volumetric components, the care which was invested into proceeding with a sectional logic during the early phases paid off: when the plan of the construct was applied into the Z axis, the underlying strategy became evident. During the second phase of the building activity the prototype constructs were then extended into the X and Y-axis of the 3D realm through a process of equal interval repetitions. Through these repetitions sections/planes become volume, and the flow amongst volumes constitutes architecture.

What emerged was a layering of two realities, ‘real’ and ‘virtual’, visible simultaneously and which a user of the metaverse could also experience interactively in a 3D manner. Indeed the superimposed ‘building’ is one that a virtual resident of a metaverse could conceivably use as a dwelling or a meeting area. As such, a form of virtual architecture, which exists as a non-physically physical entity, enables the sense that the notion of ‘space’ can be perceived, indeed exist and be used, by means of interactive media and particularly 3D virtual environment applications.

CONCLUSION

Architecture today need no longer be considered as a monument that smothers social life. The notion that architecture is a means of controlling and incarcerating people in solitary and inflexible permanent structures should be challenged in today’s networked and fluid societies. Tendencies for oppression through architecture must be challenged, and, to be effective, resistance must remain alive and regenerative through collaboration (Cowan 2002: 20). Hill supports this proclamation by stating that the architectural profession has come to employ a restrictive visual and verbal language that empties architecture of its inhabitants. The text suggests that the traditional language of architectural production and discourse can be dismantled and recast to include, and respond to, the signs of inhabitation. Conversely, the ‘illegal’ architect,
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who questions and subverts these conventions, codes and laws of architecture, is most likely to value the user and transform architectural practice (Hill 1998: 10). A very fresh example of this suggestion is the architecture designed by non-architect individuals within the Second Life® environment.

This series of artworks and processes focus on the possibility of (re)designing architecture virtually with the help of one of the most important representation tools: photography. Photography can be utilized in the process of ‘constructing’ a new space – that we can call ‘narrative space’ – from an existing spatial body. This narrative space can also be defined as a ‘manufactured metaspace’ which is a space beyond reality and representation: a constructed reality that exists solely in digital realms like Second Life® where boundaries are unnoticeable. Despite the fact that this constructed reality is not a physically built entity, it can reveal some spatial clues that can later be used in tangible architectural projects of the real world. While the idea of juxtaposing a series of disparate photos sounds questionable, the new aesthetic challenge of formulating the visual continuity of photos in sequence offers new ways of constructing space and conveying narrative information as a result of a new spatial flow among contiguous planar spaces.

A final quote from Mark Kingwell reinforces this endeavour of making personal worlds of architecture using photography:

Photographs are not multiple depictions of some single reality, waiting out there to be cornered and cropped, and somehow regulating, even in the cornering and cropping, how/what the image means. Rather, photographs offer multiple meanings. The presented image is not a reflection, or even an interpretation, of singular reality. It is, instead, the creation of a world. […] The truth of the image is the truth of time: not its metaphysical essence, whatever that might be, but its presence; its inescapability. A photograph, I want to say, is a machine for making worlds.

(Kingwell 2006: 16)

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