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# cinemetrics

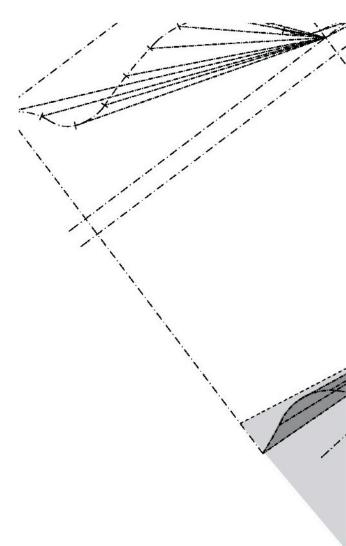
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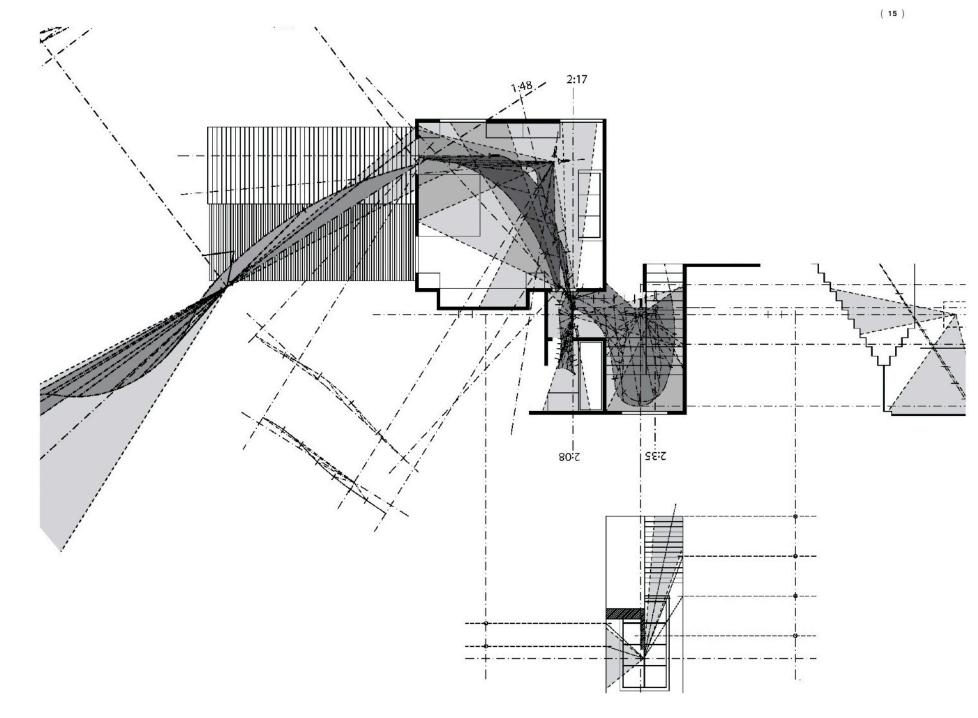
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# Cinemetrics: Embodying architectural representation in the digital age

How can architecture emerge from the prison of its current forms of representation? David Grahame Shane interprets the concluding diagram of Robin Evans' Projective Cast: Architecture and its Three Geometries as a critique of postmodern architecture's self-reflection and lack of engagement with the world. Shane argues that Evan's diagram depicts architectural representation as a self-reinforcing, closed, conceptual triangle of mirrored reflections between the human observer, the scopic regime of perspective, orthographic architectural drawing conventions, and designed objects. Shane characterized Evans' critical view of postmodern architectural practice and representation as a "self-correcting means of stabilization and pacification of the physical, built environment." This paper introduces the theory and practice of Cinemetrics to demonstrate how contemporary architectural production, with the aid of digital tools, has the capacity to break this closed, static system with dynamic, open-ended, embodied cybernetic feed-back loops engaging a wider public culture in the making and imagining of architecture from interiors to the city. Cinemetrics argues that this break can be accomplished by embodying architectural representation through a careful engagement with Gilles Deleuze's philosophy of movement and time images derived from cinema and Henri Bergson's theories of memory, at-





1\_Mapping of topological invariant space between the camera and the main actors in the final scene of John Cassavetes' Faces (1969).

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### Conclusion

If in the late 20th century the world's for a semester long studio at Parsons, sensori-motor schema -its way of ha- which was presented in public exhibibitually operating—broke down. Perceptions both in New York and Bangkok the ematic modes of spatial analysis, repretions, affections, impulses, actions, re- following year. flections and relations which previously formed a feed-back loop of checks and balances between individual and social behavior and the balance of natural systems were disrupted. A few Cinemetric workshops conducted around the world recently asked the question of what new possibilities can be created when the habits of modernization finally break down. In the fall of 2008, sixteen students from Parsons The New School for Design in New York traveled to Bangkok and collaborated with fourteen students from Chulalongkorn University in a workshop that also included Professors Paul Chu form Chu Hai College and Hsueh Chen from National Chung Keng University in Taiwan. Nine student groups were formed to work in the style of one of the three film directors would in one of three sites along the San Saeb Canal in the heart of Bangkok. The field work and digital video recording over the course of the ten day workshop served as an extensive archive and data base

The Ozu groups produced design work that followed the slow, close, intimate and repetitive qualities of his film style. Their projects benefited from their direct engagement of the life of the communities they filmed - the daily life of a Muslim urban village, the patterns of commuting, informal transportation infrastructure and food vending. The Godard groups were able to carefully document the complexity of the "anyspace-whatever" of the city, the spaces that were not planned, but exist in between water, road and elevated transportation systems. Finally, the Cassavetes' group found unpredictable trajectories through the city, whether from the back of a motorcycle taxi or helping a Buddhist monk collect food offerings early in the morning. These experimental workshops indicate how the way we frame, shoot and assemble images around the life of an urban site will often determine the character and quality of the design project.

Cinemetrics is a framework for integration of the best of architectural and cinsentation, design and communication. As Robin Evans carefully demonstrated, in the post-modern era architectural representation locked itself into a closed, prison-like system of self-reflection. Digital technologies have infused architectural representation with the possibilities of cinema - not only through representations of movement and time, but ways to artfully frame life as cybernetic feed-back loops of attentive reflection and relation. As Godard has said, in art object of cinema is the camera and the subject or content is life itself.

Cinemetrics Architectural Drawing Today by Brian McGrath and Jean Gardner was published by John Wiley & Sons in 2007. All courtesy of Brian McGrath. Drawing assistants Stan Gray, Mark Isarangkun na Ayutthaya and Pin Wei Dylan Kuo.

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7 Mapping of the last scene of *Faces* as the husband returns home, finds his wife in bed with a stranger, chases the intruder out the bedroom window, where the interloper escapes off the roof. A topological invariant space generated between the actors and the camera circumvents the rectangular world of the domestic architecture.

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mestic interior sequences from Yasuiiro the sleeping couple. The woman turns Ozu's Early Spring, Jean-Luc Godard's in profile, inhales deeply, and rotates Contempt, and John Cassavetes' Faces her body up in a twisting motion with will provide a cross-cultural basis for her back to the camera to face the gridproposing a new expanded and dynamic ded screen at the back of the scene. She drawing system for architecture that fully engages movement and time at all scales of the built environment, from interior to city.

# Framing Matter Flux

The camera sits on the floor of a darkened room looking through a threshold towards a background of curtains and gridded screens barely emitting soft morning light behind the heads of a couple sleeping on the floor. The sequence cuts to the camera positioned ninety degrees clockwise, and it now poises the viewer on a pillow gazing at the face of a woman sleeping in profile. We are so close to her we are afraid to move without waking her. An alarm clock rings, the sleeping man in the background absolutely still within the duration of the turns over and covers his head with his four shots and has only changed posiblanket, and the woman mechanically tion during the cuts in between shots. reaches up to turn off the alarm and sits The time of this repositioning is lost to up. Just as her head is cut by the top of the viewer, as the illusion of an uninterthe camera frame, there is another cut in rupted sequence is achieved in the editthe sequence and the camera returns to ling process of the film.

tention and duration. Examples from do- its original position looking at the feet of partially opens the curtain bringing the soft morning light onto her still sleeping husband. As she turns to the left to begin her day, her body disappears out of the field of vision of the camera frame. Again, a precise matching shot conveys a continuous fluid movement of her body as the camera changes position again. Now it is positioned on the pillow where her husband sleeps, and frames her back as she steps down into the kitchen and opens a sliding door to

Notational drawings from the book Cinemetrics capture the spatial position and timing of this sequence of four camera shots. The camera has stayed

In this opening scene, the film director Yasuiiro Ozu guickly establishes and clearly lays out rules of film construction. and we quickly learn to anticipate each shot to follow his strict code of camera behavior. The position of the camera always maintains an orthogonal relationship to the scene, and its repositioning is always at ninety-degree intervals. The film continues strictly adhering to this between this domestic scene, to an alley shared by neighbors, to commuting office workers, to the workspace itself and many of the social spaces between home and office that animate Tokyo in the 1950s. A substantial slice of the whole of life in post-war Japan is unfolded in Ozu's film, Early Spring (1956), as we move from interior to house to neighborhood to metropolis. Since this unfolding is filmed with a stationary camera while shooting and coordinated by ninetydegree angles of camera movement between shots, it represents an architectural drawing system in addition to a way of creating a film narrative. This architectural drawing system implicit in Ozu's filmmaking has the capacity to do much more than we ask of architectural

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# ...the theory and practice of Cinemetrics explores how contemporary architectural production, with the aid of digital tools, has the capacity to break a closed, static system with dynamic, open-ended, embodied cybernetic feed-back loops...

in all its aspects.

Reading the making of Early Spring as a drawing system provides architects with an expanded dynamic representational system for the digital age. Ozu's technique follows the corresponding orthographic conventions of measured plan and section drawings of architecture, but also vividly demonstrates how built space is not an empty void, but is materially embodied, and exists as flowing matter flux in space and time emerging out of life's infinity of movement. The stationary camera of each shot captures and returns to specific spatio-temporal slices of the built environment in order to frame flowing matter flux. The repositioning of the camera to different spaces throughout the films interconnects architectural interiors and urban space into a to just one element — the woman's face. continuum of interrelated spaces, movements and experiences

There is another important trait that distinguishes Ozu's film technique: when the director changes camera positions between shots in a particular scene, he also changes the distance between the camera and the subject of the scene.

the sleeping subjects and the camera. We barely notice the sleeping figures at first, but take in the whole space of the bedroom and the morning light beyond. We can identify this first long shot, following Gilles Deleuze's taxonomy of cinema images, as a perception image The second shot of the sequence is a

We are gazing directly into a sleeping woman's face in profile. While the opening shot is almost like a theater set, this second shot is implausibly intimate, not possible in any visual media other than cinema. This is an example of what Ozu's commentators call a "pillow shot". The close cropping of the camera frame removes all data from the set of information provided by the film frame All else is in the "out of field" outset the closed set of information captured within the film frame. The close up shot lingers tion image, even though nothing is hap-

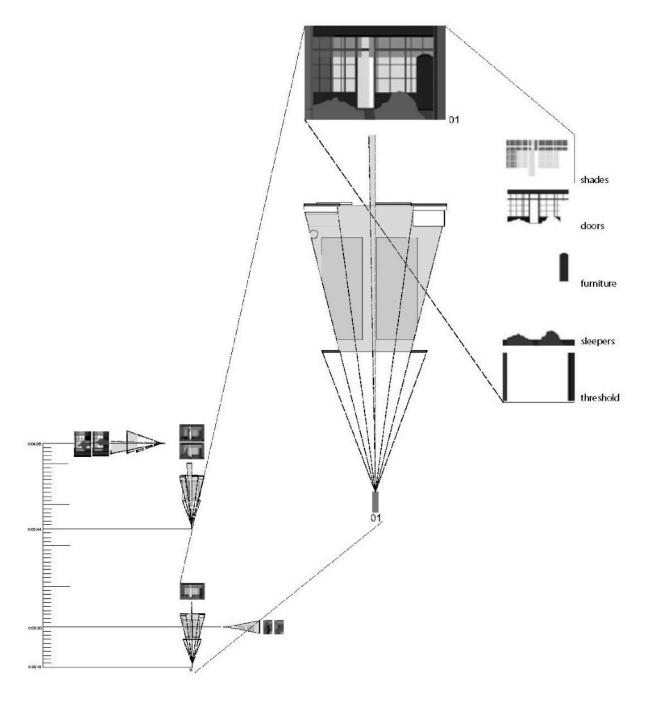
There are no elements of perception other than the woman's face, and no ac-

drawing today. It has the capability to The first shot of Early Spring maintains tion is taking place. The movement prescapture much more of life's vicissitudes as much distance as possible between ent in this shot is not physical movement of bodies in space, but we are moved emotionally as we grow to empathize with the sleeping woman through the duration of the shot. Deleuze calls the close-up in cinema an affection image.

> After the camera returns to the original camera position of the perception image. it moves again to a third angle, framing the woman's back at a medium distance. Her body dominates the frame, and we notice the drape of her kimono and her graceful body gestures as she steps down and opens the latch of the house door. The medium shot, by focusing on body movement in space is the action image. While the action image focuses on the translation of movement of bodies in space, the affection and perception images focus on the transformation of embodied space in time. This range of movement images from perception to affection to action constitutes, for Deleuze, a human sensori-motor schema, where we continually perceive images, are affected by them, and act in relation to our perceptions and affections, which again create new perceptions and new affec-

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2 A diagram of the framed set of elements as informatic layers that generate a perception image, from the opening scene of Yasujiro Ozu's Early Spring (1956).

Ozu's stable frame creates a set of quantitative data of flows – not just of human bodies in motion, but visible material information.

This quantitative data set is complimented by the qualitative information through perception and affection images that provide insight into duration by indicating transformations of the larger vibrational whole of existence. In this philosophical framework that Deleuze identifies in cinema, the world is seen not as a space of objects, but as system of dynamic flows, which we can never grasp as a whole, as we are living images inside this vast set of movement, but only observe through new patterns of perception and attention which alert us to subtle changes and movements.

to developing a system of drawing for in Rome. In the far background a woman an understanding of the attributes and drawing systems. In both cinema and in is slowly walking towards us, the movie limits of his filmed images. Contempt is

Ozu's cinemetric system is informatic: human cognition, images and movement audience, while reading a book. Advancit creates sets of quantitative and quali- materialize out of matter-flux. According ing towards in pace with the woman is a tative information about the human sen- to Bergson, we are living-images framsori-motor schema in relation to built, ing or selecting other images out of the with a cinematographer aboard, accomsocial and natural environments. The open whole of sensations. Movement is translation of bodies in space within a qualitative transformation in time as a microphone and slowly guiding the well as measurable translation in space. Matter-flux is the open vibrational whole - the medium from which all movement, flows - light, air, water, materials and images, thoughts, and matter generate. As all design disciplines search for ways of adjusting human behavior in relation to a world of limited natural resources, this ability to draw quantitatively and qualitatively the transformations initiated by design interventions in relation to the flows between objects and spaces is absolutely necessary.

### **Shooting Any-instant-whatever**

The title sequence to Jean-Luc Godard's film Contempt (1963) breaks with usual film practice. Instead of viewing a rolling list of credits, the director reads the titles, names of actors, producers, etc. while we view the opening scene slow and limited movements of the camof his film: a sequence being shot on a era apparatus in the opening sequence Following Deleuze, Cinemetrics points movie set on the studio lots of Cinecitta of his film, Godard immediately provides

large movie camera on a wheeled device panied by several assistants carrying camera apparatus along a set of tracks, like a small train car. As the woman and the camera crew grow larger, and come closer to fill the foreground, we see the cinematographer turn a wheel, slowly panning his camera away from the walking woman until his viewfinder is pointing directly at us. Godard begins his film by revealing the tools he will use to make the film we are watching in one fluid shot that transforms from the deep space of a perception image, a moving action image, and finally a close-up of another camera, creating an unusual affection image.

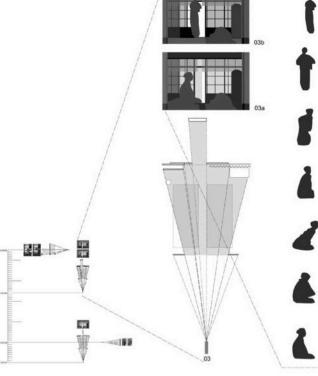
In filming Contempt, Godard used a large, heavy cinemascope camera, which can track, pan and tilt through mechanized controls. By displaying the

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3\_The third shot of Ozu's Early Spring returns to the same position as the opening frame, but generates an action image of the woman getting out of bed in the morning.

selling its cultural heritage to American corporatist and consumerist culture.

While both films are thematically focused on the enormous political, economic and cultural change in Asia and Europe in the 50s and 60s, Ozu and Godard present the experience of this societal mutation through scenes of every day life. Godard's film, like Ozu's follows a married couple as their domestic lives are turned upside down by the new realities of modern life.

ried couple returns home as the camera frames the empty entry vestibule. The camera frames a medium distance the framed medium distance action im- ment for the next half and hour of film shot, with the wide aspect ratio of cinemascope, allowing us to see the entry age at right angles to each other, but settle in one space, as the characters door to the apartment and into a small in between we have the slow panning are restless themselves, and the spaadjacent kitchen. The couple enters and of the camera during which our atten-cious apartment is filled with corridors proceeds to go through various banal action is less focused on a single framed and passages in which to hide. If Ozu

essentially a movie about making movies guing, reading, drinking soft drinks, and tion images are still there as well, but in the Hollywood system. If Early Spring ultimately bathing and changing clothes they flow in and out and overlap as the shows the transformation of modern Ja- to go out again. The camera slowly pans camera continously moves during the pan following World War 2 into a modern to the right as the husband hangs up his shot rather than invisibly moving in besociety, Godard's film, the only one he jacket and the wife goes into the kitchen tween the cuts separating Ozu's shots. every made with Hollywood financing, to fetch a soft drink. The camera follows An individual shot is no longer limited is a condemnation of post-war Europe the husband as he walks out of the cam- to one type of movement image. If in the era frame to the living room to the right, classic cinema of Ozu, each shot frames but he returns and the camera follows a carefully composed privileged pose, him ninety degrees counter clockwise to Godard's camera is a semi-subjective the left as he walks down the apartment frame, shooting what Deleuze refers to hallway and disappears through a door- as "any-instant-whatever." According way in a long shot. Here the sensory mo- to Deleuze, when movement is not retor schema we learned from Ozu – the lated to privileged poses, 'it will not be movement between perception, affec- actualized (in) ideal forms, but (in) anytion and action is supplemented by an instant-whatever, which can be '...reguimpulse image caught between affection lar or singular, ordinary or remarkable.' and action. The camera, like the charac- This creates an experience of newness ters, is caught in an endless repetitive within a field of relations within the open cycle of automatic behavior from per- whole Midway through Contempt, a mar- ception to affection to impulse to action and back to new perceptions.

age and long distance perception im- time. The camera finds it impossible to tivities such as walking about, talking, ar- shot. The perception, affection and ac- constructed his scene through editing

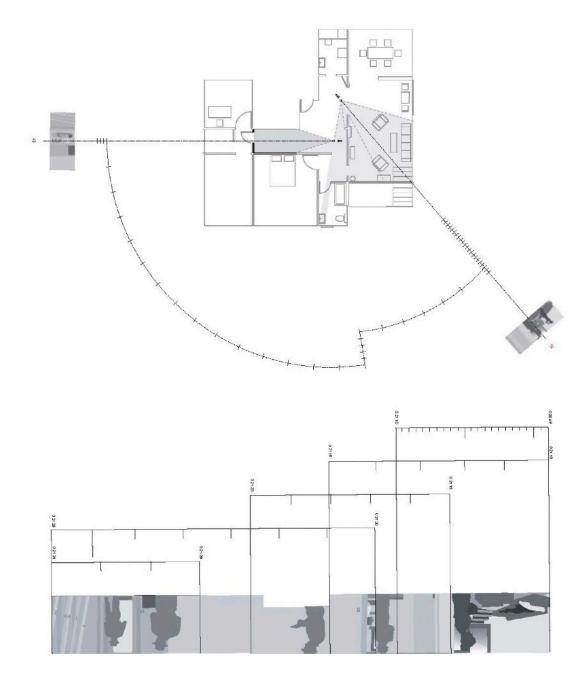
The apartment scene in Contempt continues with Godard's restless cam-Ozu's vocabulary is also present here: era scanning the interior of the apart-

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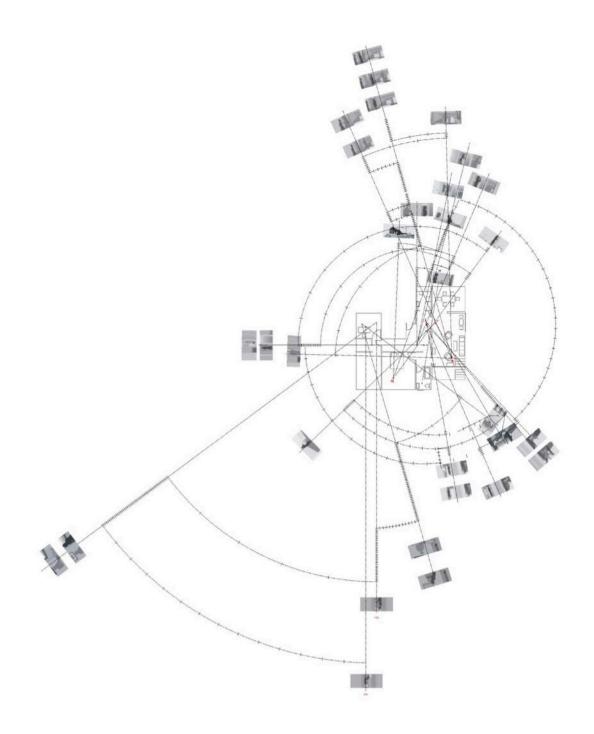
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4\_Mapping one panning and tracking shot in the middle scene of Jean Luc Godard's *Contempt* (1963). The camera starts framing the living room for about 20 seconds, pans clockwise for 6 seconds, tracks forward for 5 seconds in order to set up a 15 second clockwise pan to shoot the husband retreating to his studio.



5\_Final diagram of all the shots and camera movements in the central scene in Contempt depicts in "real time" a couple returning home, showering, arguing, changing clothes and going out again. The camera continuously pans the space shooting "any-instant-whatever" rather than privileged poses. (23)

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in this famous protracted sequence, de- in a sequence of flashbacks and a flashfines the art of *mise-en-scene*, where forward to the next scene of the movie. cuts are infrequent and shots linger on in The husband no longer understands the real time. Closeups are rare in this rest- behavior and feelings of his wife. For a less sequence, but there is non-the-less moment, his sensor-motor schema is a strong affection image produced by the broken. What happens when percep*mise-en-scene* itself – a sample of what tions no longer result in action? This Deleuze calls "any-space-whatever", rapid sequence of jump cuts introduces which produces a feeling or emotion a new kind of image in addition to the through its banality and emptiness. Anyspace-whatever is an absence or void in time rather than a space filled with narrative action or discernable character.

By the end of the sequence, every room of the apartment has been surveyed by the camera as the characters 
little soft-shoe two-step routine in the 
Although Cassavetes carefully scripts move in and out of rooms, beds, couches, chairs, toilets and bathtubs, as well bedroom to greet his wife. Instead he is as their clothes and interact with various greeted by a shock. We only see the back rolls and his actors perform. objects and carefully selected set pieces of his head, but we know he has caught of art and furniture. Yet the sequence is his wife in bed with a young man. unresolved.

or montage of individual shots, Godard, time in this unfolding scene is expanded opening shots of the final scene of the four kinds of movement images we have already acknowledge, here we have the introduction of the time image.

### Sensori-motor Breakdown

A man exuberantly leaps from his car, pirouettes to his front door, performs a vestibule and leaps up the stairs to his

We, like the husband, never quite un- unable to further pursue his younger rival derstand why his wife is so upset and who athletically bounds out the window description of both the sensori-motor acts in such an unpredictable manner. over the garage roof and escapes down system of affection, impulse and action The *mise-en-scene* flows out in real-time the winding suburban hills of Los Ange- out of control until the last scene of the - there are no time lapses in between les. This is the beginning of the end of movie when the actors finally experi-

movie. The dramatic and frivolous escapades of the main actors, culminating in this dramatic moment near the end of the film have all been filmed in a unique and original style by Cassavetes, as in his independently produced films introduced the hand held camera to cinema. The stable camera of Ozu and the careful mechanical panning of Godard are abandoned by a feely moving camera that behaves like another sensory motor apparatus in relation to the human bodies in the film. The hand-held camera as a perceiving feeling, thinking and acting machine takes on human qualities of impulse, unpredictability and spontaneity. his movies, he can never control what actually will happen when the camera

In this scene we experience what happens when the sensory motor ap-He impulsively runs in pursuit, but is paratus breaks down and perceptions no longer lead to actions. Faces is a vivid cuts. But, remarkably, one moment of John Cassavetes' film Faces (1968), the ence a breakdown. At first they struggle

to change and to think in the new ways have seen in the first sequence of Early when they can no longer act in our nor- Spring, Ozu carefully matches the contimal and habitual patterns. After his rival nuity of the movement of the wife waking has disappeared out of the camera frame, up in the morning. His mastery at matchwe are presented with a long and slow ing continuity of movement is one of the close-up of the husband's back and then his face in profile as he attempts to cope with the unimaginable and the unknowable. Over the next few shots he wanders through his house retracing his steps trying to restore his sense of his life and his place in the world. However in spite of the momentary bliss both the husband and wife found in their affairs outside their marriage, they slowly resume their old habits, as they sit on the stairs he recently bounded up, sharing cigarettes and a lighter. The film ends with the empty stair, a shot held long and steady. Here we have come full circle back to the silent and empty still camera of Ozu as both directors' still empty cameras fully embody the time image within the shot.

## Assembling Time Images

By focusing on the assemblage of direct and indirect time images. As we bodies in space.

hallmarks of his film making style. Ozu is a studio film director. His interiors are all sets constructed in the sound studios in Tokyo where he controlled every aspect of filming. Like in the classic Hollywood system, his actors must perform the directed movements of the scene multiple times. Classical editing requires the laborious technique of matching continuity between repeated takes of a shot.

So while the movie viewer feels time is continuous and uninterrupted as we move from the close-up on the pillow of the wife to the perception image of the bedroom as she sits up in bed, or as the shot seamlessly switches from the long perception image of her at the back window to the action image of her stepping into the kitchen, in fact shooting time has been manipulated by the film editshots into sequences, instead of focus- ing to give the illusion of continuity. This force as a newspaper reporter seeks to ing on individual shots themselves, we is an indirect time image where time is can understand the difference between measured by the lateral movement of

Two diagrams from Henri Bergson's treatise Matter and Memory offer direct time images that arise from relation and reflection rather than indirectly through movement of bodies in space. Bergson's first diagram distinguishes between "sheets of the past" and "peaks of the present". Time is like a cone, the point of which is the present, always moving forward. Memories do not just occupy the general space created by the cone as it expands forward, but are mentally stored in separate sheets of the past. When we are in the present and need to uncover a memory from the past, we do not just dip into the past in general, but search within one of these specific sheets or zones.

Orson Wells' great film Citizen Kane is constructed much like Bergson's diagram, and is the first movie of direct time images based on this act of reflection on the past in relation to the present. Citizen Kane begins at the end of Kane's life. The opening shot is his death scene and his dying words "rosebud" are overheard and become the film's narrative driving find out who or what rosebud was. As the movie progresses in an ongoing narrative present, the reporter and the film dives

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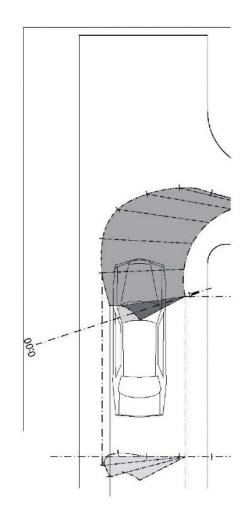
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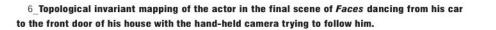
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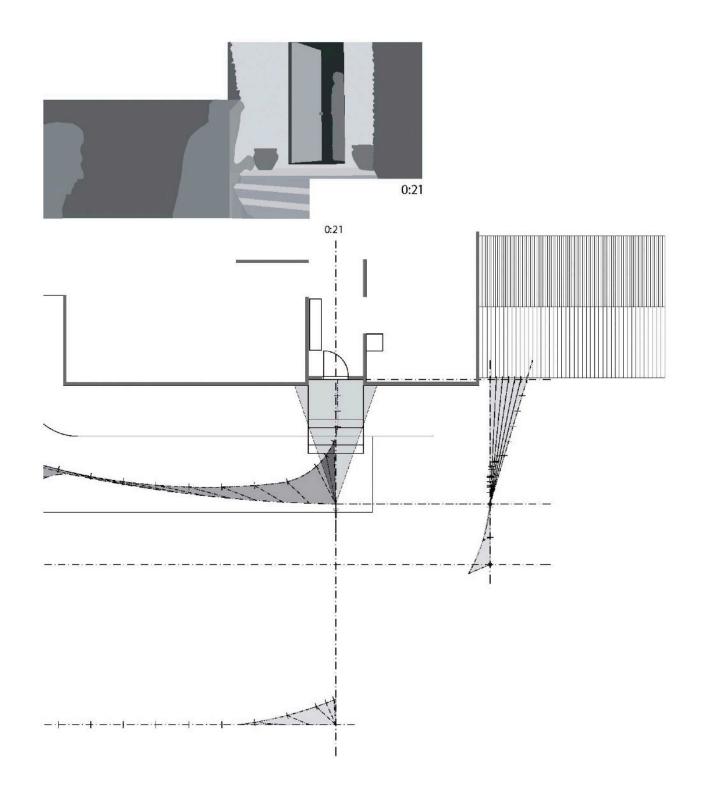
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interviews with people who Kane lived her integrity and putting her in a car with stratum of reality. and worked with and through dramatic the vile American film producer. His lack transition shots where the film narrative of attentiveness is what drives his wife moves from the present to the past and to leave him. back again. The film both moves forward in the present and pogressively through the layers of Kane's past, one sheet at a time. The past is not seen as absent, but continually reflected in and related to the present.

to remember his own behavior the mo- reflection, we achieve both a higher ex- giant picture windows looking over the

into the sheets of Kane's past through ment he betrayed her by compromising pansion of thought and reach a deeper

A memorable work of architecture, such as Casa Malaparte, which is the setting for the final scenes of Contempt, Bergson's second diagram distin- is worthy of such attentive reflection. guishes between automatic and attentive According to Marida Talamona, the reflection. If an object, labeled "O" is house is a personal biographical reflecrecognized in an immediate perception, tion, which we can compare to the biosuch as in every day life, for instance graphical structure of Citizen Kane. The when the wife wakes up in Ozu's film, Italian writer Curzio Malaparte built his The husband in Godard's film is or the couple return home in Godard's, house as a testament to his life. While never able to retrieve the lost memory then it is an example of automatic re- at a glance the house may appear as a of what he did to cause his wife to feel flection. The wife can automatically go striking but typical example of modern contempt for him. A momentary event through the morning rituals of waking up rationalist Italian architecture, closer exin the beginning of the film is seared in before it is even light. Godard exagger- amination reveals multiple historical and the wife's memory, and she can recall ates the automaton nature of his charac- biographical associations and meanthat moment in detailed flashback later ters in the apartment scene of *Contempt*, ings. The dramatic wedge shaped stairin the film's first sequence as we move as they barely notice their surroundings, case which dominates the profile of the from the movie studio to the American in some times comical ways. We barely house, resembles the Church of Annunproducers plush villa. During the long see the objects around us in every day ziata on the island of Lipari, where Malatakes of the apartment scene that is the life because through repetition and roucore of the film, there are a series of tine everything is already known in our of Mussolini. The performative aspect of jump cut memories that flash through memory. On the other hand, what hap- the roof in relation to the stair acts like a the husband's mind as he panics at his pens to us, when, like the husband in Greek theater, dramatized by the final sewife's new feeling of contempt for him. Faces, we return to familiarity of home to quence of Godard's film, where a scene His mind's internal movie projector see everything has changed beyond our from the Odyssey is filmed. A dramatic flashes with a series of sentimental and expectations. Bergson's diagram shows 360-degree pan shot by Godard unfolds erotic images of his wife, so he is unable that only through circuits of attentive a great stone-floored living room, with

Mediterranean Sea. The living room with his film, not in the individual sequences the windows serving as Pompeian frescoes resembles the atrium houses excavated by archaeologists just prior to the construction of Malaparte's house. The writer's studio at the back of the house, provocatively shot as the scene of the Brigitte Bardot's stolen kiss in Contempt, in fact is a reconstruction of the author's prison cell in Lipari. Finally the view of the house from a distance resembles a Roman tomb, and it acts as such for Malaparte, since it is now a state monument in his honor and dedicated to his memory.

Attentive reflection through repetition is notably present in Ozu's film, as the characters actions are replayed out in the same domestic space over time, and resolve their marital conflict at the end of the film. The film continues to return to the same action in which the film opens as new conflicts arise and are confounded. If we examine not the scenes from Early Spring chronologically as they move from domestic to leisure to office spaces, but synchronically, by overlay- where the life styles and behaviors of the ing subsequent sequences filmed in the era in which they were made need to be same space, we see how affective the di- so radically altered in the face of rapid rector is at creating attentive reflection in global urbanization and climate change?

themselves, but in the continual return to the same spaces of every day life.

The couple in Cassavetes' film is unable to alter their habits in any way in spite of the dramatic upheavals in their lives brought by their mutual infidelities. Life is split into the routines of marriage and the thrill of affairs. It is only in their respective affairs that both the husband and wife find true moments of intimacy and affection. In the end while all three films are focused on domestic disputes and betrayals between married couple, they all grapple with huge cultural changes that took place in the last half of the twentieth century as a new consumer society emerged across the globe. By the time Faces is made the world is experiencing a sensori-motor breakdown as the civil rights and post-colonial liberation movements usher in a new era in the world political stage. But what does the form or content of these three films offer us for the twenty-first century,

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