「「小領域の最適基底数や，使用される基底の形状にどんな影響がある？」」

目的

・基底変更により最適基底数が減る？

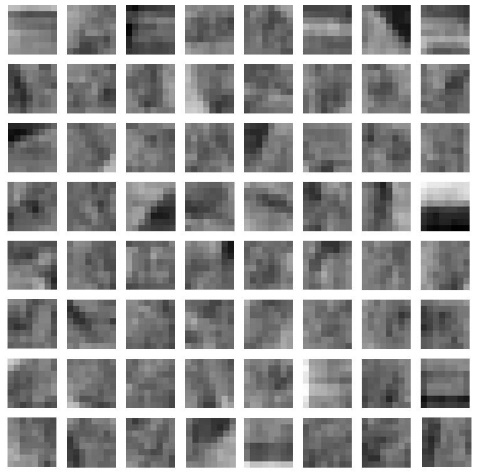
・小領域に最適な基底はそれにあった特徴を持つ基底が選択されているはずだが，選出され，使用されている基底に違いはあるのか？

以降の実験の条件

レート：Q40

基底作成に使用する画像の名称：

①原画像：原画像

雪の上を飛ぶ飛行機の白黒写真

中程度の精度で自動的に生成された説明

②基底変更（0あり）：そのレートのICA\_Block（ICA基底を使わない領域を含む）

QR コード

自動的に生成された説明![屋外, 大きい, 建物, 座る が含まれている画像

自動的に生成された説明](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAKAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOS4reeUsOmbhOWkpwAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzEwAACSkgACAAAAAzEwAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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③基底変更（0なし）：そのレートのICA\_Block（ICA基底を使わない領域を含まない）

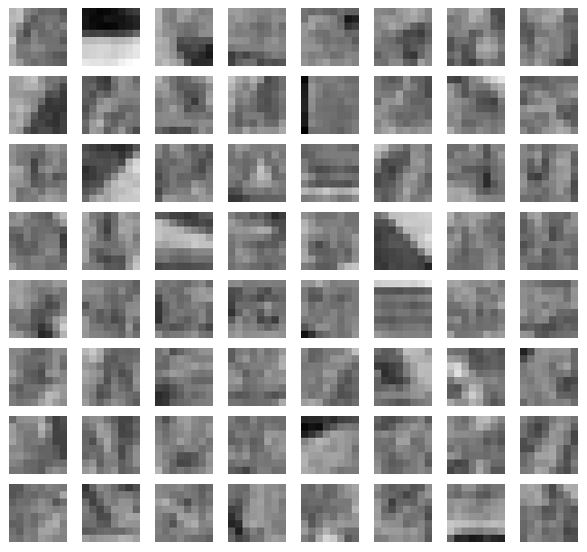
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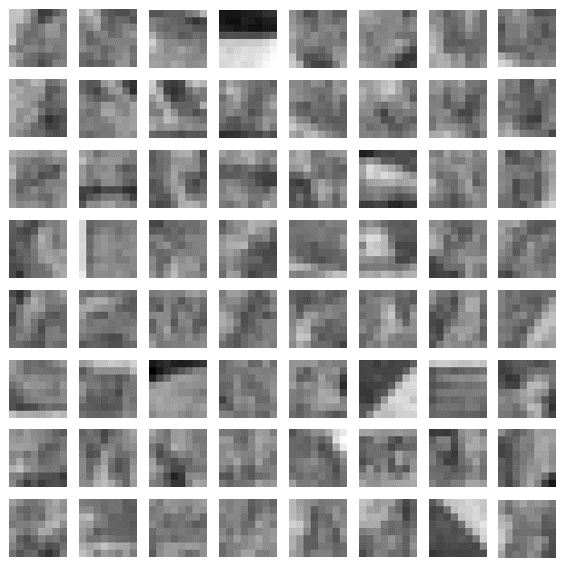
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④基底固定（0あり）：Q10でのICA\_Block（ICA基底を使わない領域を含む）

建物, 写真, 座る, レゴ が含まれている画像

自動的に生成された説明

⑤基底固定（0なし）：Q10でのICA\_Block（ICA基底を使わない領域を含まない）

QR コード

自動的に生成された説明

＊最適基底数の比較

|  |  |  |
| --- | --- | --- |
| 基底作成に使用した画像（Q40） | ICA\_Block数 | 最適基底数の平均 |
| 原画像 | 663 | 3.349 |
| 基底変更（0あり） | 583 | 2.639 |
| 基底変更（0なし） | 593 | 2.726 |
| 基底Q10固定（0あり） | 464 | 2.450 |
| 基底Q10固定（0なし） | 612 | 2.754 |

・領域を減らして基底を作成することで，最適基底の数が減っていることが，平均値から読み取れる．ICA\_Block数が減っているため，領域を減らすことは有効であると言える．

・ICA\_Blockだった領域がDCT\_Blockとなっていたり，その逆も見られた．

・基底が特徴的になるため，組み合わせづらくなる？

・基底単体が小領域の形状に似てくるため，最適基底数が減っている？（基底を固定した場合に平均値が減っている理由が分からなくなる）

＊原画像vs 基底変更(0なし)

|  |  |  |
| --- | --- | --- |
| 領域画像（原画像） | 基底作成画像  （原画像） | 基底作成画像  （基底変更0含まない） |
| 55（Area）  背景パターン  自動的に生成された説明 | 59  ツリーマップ図 が含まれている画像  自動的に生成された説明 | 2　　　　　60  背景パターン が含まれている画像  自動的に生成された説明　背景パターン  自動的に生成された説明 |
| ・59と2，60の基底は55領域において最適基底となっていた．60はtop2 | | |
| 876（Area）  背景パターン  自動的に生成された説明 | 59  ツリーマップ図 が含まれている画像  自動的に生成された説明 | 2　　　　　60  背景パターン が含まれている画像  自動的に生成された説明　ツリーマップ図 が含まれている画像  自動的に生成された説明 |
| ・59と2の基底は876領域において最適基底となっていた  ・36はtop5に入っていない  ・ICA\_Blockは平坦な領域が多いためよくわからない． | | |

＊原画像vs 基底変更(0あり)

|  |  |  |
| --- | --- | --- |
| 領域画像（原画像） | 基底作成画像  （原画像） | 基底作成画像  （基底変更0含まない） |
| 55（Area）  背景パターン  自動的に生成された説明 | 59  ツリーマップ図 が含まれている画像  自動的に生成された説明 | 21  背景パターン が含まれている画像  自動的に生成された説明 |
| ・21はtop5には入っていない  ・0領域を含まずに作成した基底よりも少ない基底数で表現できている． | | |

＊特徴的な形状の領域での比較

|  |  |  |  |
| --- | --- | --- | --- |
| 領域画像（原画像） | 基底作成画像  （原画像） | 基底作成画像  （基底変更0含まない） | 基底作成画像  （基底変更0含む） |
| 260（Area）  図形 が含まれている画像  自動的に生成された説明 | 最適基底数  4 | 最適基底数  7 | 最適基底数  6 |
| 326（Area）  図形 が含まれている画像  自動的に生成された説明 | 最適基底数  4 | 最適基底数  9 | 最適基底数  4 |
| ・ICA基底にも存在している特徴的な領域形状にも関わらず，最終的なICA\_Blockにはなっていなかった．  ・最適基底数が増加しているということは，特徴的な領域のみで基底を作成してもそれらに適した形状の基底を作成できるとは限らないということ？  ・作成された基底の形状比較  小領域の形状図形 が含まれている画像  自動的に生成された説明　原画像　0領域なし　0領域あり  ・0領域を含めなかった場合，他の領域が特徴的な形状ばかりになるため，ノイズ的なものが含まれてしまうのではないか？ | | | |

結論

・最適基底数が減っていたが，領域特徴に適した基底が作成されたため，最適基底数が減ったのか？ 特徴的な基底が作成されたため，基底を組み合わせづらくなり，最適基底数が多い領域でDCTに勝てなくなってしまったのか？　は分からない．

・基底を組み合わせづらくなっていた場合，平均値は上がるため，後者は考えにくいのでは？

・基底の変更や，0領域を含まないことにより，各領域で選択される基底が変わっていることが確認できた．それらに共通した傾向的なものは読み取れなかった．

・0領域を含めず基底を作成した場合，ノイズ的なものが含まれてしまうため，0領域は含めたほうが良いのではないだろうか？（）