

# adaptTo()

APACHE SLING & FRIENDS TECH MEETUP  
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Adaptive images in CQ5

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# About the speakers

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Spezialized on Adobe CQ and it's  
technology stack since 2003

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<http://argonauteng2.de>

argonauten\_G2



# Disallow scaling of websites

```
<metaname="viewport"  
    content="width=device-width, minimum-  
    scale=1.0, maximum-scale=1.0, user-  
    scalable=no" />
```



# The general CSS

```
.vwm_image_full {  
    width: 100%;  
    background-size: 100%;  
    background-repeat: no-repeat;  
}
```



# The markup

```

```



# Add additional CSS

```
private String generateDynamicCss(HtmlElement pParent, String pMediaRef) {  
    String cssname = "vwm_image_full" + DigestUtils.md5Hex(pMediaRef);  
    pParent.addContent(  
        new Style(getMobileMediaFormatHelper().buildMediaCSS(pMediaRef, cssname)));  
    return cssname;  
}
```



# Three Scales

```
public enum SCALE {  
  
    /** Scale for highres opt-devices */  
    SCALE1("@media all and (-webkit-min-device-pixel-ratio: 1.5)") ,  
    /** Scale for normal opt-devices */  
    SCALE2("@media all and (min-width: 320px)") ,  
    /** Scale for opt-fallback */  
    SCALE3();  
    private final String mCssHeadline;  
  
    private SCALE() {  
        mCssHeadline = "";  
    }  
    private SCALE(String pCssHeadline) {  
        mCssHeadline = pCssHeadline;  
    }  
    public String getCssHeadline() {  
        return mCssHeadline;  
    }  
}
```



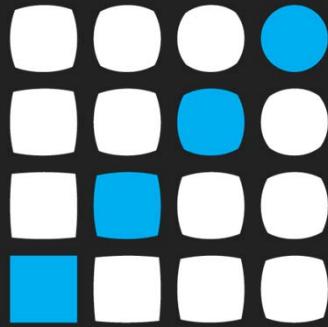
# Add additional CSS

```
public String buildImageCss(String pMediaRef, String pCssName) {  
    StringBuilder sb = new StringBuilder();  
    buildMediaQueryCSS(sb, pCssName, null, pMediaRef);  
    buildMediaQueryCSS(sb, pCssName, SCALE.SCALE2, pMediaRef);  
    buildMediaQueryCSS(sb, pCssName, SCALE.SCALE1, pMediaRef);  
    return sb.toString();  
}  
  
public void buildMediaQueryCSS(StringBuilder pStringBuilder, String pCssName, SCALE pScale, String pMediaURL) {  
    if (pScale != null) {  
        pStringBuilder.append(pScale.getCssHeadline());  
        pStringBuilder.append(" {");  
    }  
    pStringBuilder.append(".");  
    pStringBuilder.append(pCssName);  
    pStringBuilder.append(" {");  
    pStringBuilder.append("background-image : url(");  
    pStringBuilder.append(pMediaURL);  
    pStringBuilder.append(");}");  
    if (pScale != null) {  
        pStringBuilder.append("}");  
    }  
}
```



# The output

```
.vwm_4990ec125abc0ef25be7c0e1a166a773 {  
    background-image : url(/img/low-res.jpg);  
}  
@media all and (min-width: 320px) {  
    .vwm_4990ec125abc0ef25be7c0e1a166a773 {  
        background-image : url(/img/medium-res.jpg);  
    }  
}  
@media all and (-webkit-min-device-pixel-ratio: 1.5) {  
    .vwm_4990ec125abc0ef25be7c0e1a166a773 {  
        background-image : url(/img/hi-res.jpg);  
    }  
}
```



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Thank you for your attention!  
Any questions?